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President’s Message

Dear Current and Future Students,

We are delighted that you have chosen Armstrong! As you may know, this fall will mark the 80th anniversary of Armstrong's founding and the 50th anniversary of our move to the southside. With students from 45 states and 72 countries around the world, Armstrong is a rich and diverse community. Our commitment to student success is at the center of all we do. This catalog will help you to know about our many academic programs, life on campus, and the policies that help to guide the university. Please refer to it often, and seek assistance if you have any questions.

Your learning experience at Armstrong will extend far beyond the catalog and the classroom. It will happen in the art studio or the science lab, in the library or on the field, during an internship or as part of a volunteer service project. You will make new friends with diverse backgrounds, interests, and goals, and who will challenge you to view the world in new ways. You will meet Armstrong professors and staff who know how to provide you with inspiring and meaningful learning experiences. As an Armstrong graduate, you will leave here with the skills and confidence you need to become a leader in your profession and your community.

I hope you will continue to explore the opportunities that Armstrong can provide you, and the beautiful coastal environment in which we learn, play, and work. Please visit our website, Armstrong.edu, to learn more, or visit ArmstrongExperience.com to hear what students, faculty, and alumni say about their time at Armstrong.

Sincerely,
Linda M. Bleicken
President
Charting Excellence Together

Armstrong's Strategic Plan

Our Mission
Armstrong is teaching-centered and student-focused, providing diverse learning experiences and professional programs grounded in the liberal arts.

Our Values
Armstrong embraces these core values:
• We value education that is student-focused, transformative, experiential and rigorous, leading to student success.
• We value balance among teaching, mentoring and scholarship.
• We value an environment of mutual trust and collegiality that builds an inclusive community.
• We value transparency that fosters shared governance.
• We value and respect diversity.
• We value ethical behavior and accountability that support high standards of performance.
• We value civic engagement through outreach and service.
• We value our relationship with Savannah, its unique geographic location, rich history and abundant opportunities.

Strategic Goal 1
Armstrong will impart the skills and habits of mind to motivated students that help them realize their potential as productive citizens of the world.

Armstrong will foster student success.

Strategic Goal 2
Armstrong will build upon and strengthen its foundational commitment to teaching, ensuring that transformative student learning occurs inside and outside the classroom.

Strategic Goal 3
Armstrong will enhance existing campus technologies, expanding both its technological capabilities and reach to meet current and emerging needs.

Strategic Goal 4
Armstrong will strengthen its financial base, diversify university resources and wisely invest in initiatives in order to ensure long-term sustainability.

Strategic Goal 5
Armstrong will increase its visibility across the state and region by transforming its most compelling strengths, values and offerings into resonant messaging that inspires loyalty among internal stakeholders and alumni and builds lasting relationships with the local community.
Location

Armstrong State University’s main campus is located on the coast in the historic city of Savannah, Georgia, just minutes from the beach on Tybee Island. The university’s 268-acre campus offers a mix of stately traditional and modern buildings and is surrounded by a beautiful arboretum and gardens.

Students, faculty, and staff find much to enjoy about attending Armstrong and living in the historic city of Savannah, one of the most beautiful cities in the United States. Armstrong students pursuing studies in Savannah find a full range of academic programs in the Colleges of Liberal Arts, Science and Technology, Health Professions and Education. Interdisciplinary programs, internships and study abroad further expand students’ horizons.

Another instructional site is offered at the Armstrong Liberty Center in Hinesville, Georgia, one of the fastest growing cities in Georgia. The Liberty Center’s proximity to Fort Stewart provides military personnel, their families and community members with convenient opportunities to take classes in Liberty County. Armstrong students at the Liberty Center pursue degree programs or take classes that provide a foundation for specialized programs.

The university offers a wide variety of extracurricular activities to a diverse student population from 44 states and 72 countries around the world. These activities include more than 100 student clubs, professional organizations, academic honor societies, and Greek organizations. Cultural opportunities include student dramatic, choral, and instrumental groups, and exhibits, and performances by classical and contemporary artists. With more than 100 events open to the public each year, Armstrong serves as a vibrant cultural center for the Savannah metropolitan area.

Leadership opportunities are plentiful at Armstrong, ranging from the Honors Program and the Nick Mamalakis Emerging Leader Program to the Student Government Association and the Graduate Coordinating Council.

Armstrong’s acclaimed athletics program, which is affiliated with the NCAA Division II and the Peach Belt Conference, has won 12 national championships. Men’s athletic teams include basketball, baseball, tennis, golf, and cross country. Women’s teams include basketball, softball, volleyball, tennis, soccer, and golf.

Georgia’s founding city, Savannah offers all the cultural variety and cosmopolitan style of a metropolitan city with easy access to the ocean and a rich history. A temperate climate encourages year-round outdoor recreation, including swimming, paddleboarding, water-skiing, sailing, fishing, hiking, golf, tennis and more. In addition, historic sites, festivals, live music, dance, theater and special celebrations serve as highlights.
How to Use This Catalog

A university catalog (sometimes called a record, bulletin or calendar) is an official publication providing a comprehensive, detailed listing of programs, services, rules, requirements, courses, administrators, and faculty for one academic year. A catalog is an authoritative document, yet may not be taken as a contract between the university and a student. As a general rule, the catalog for the academic year during which you are first enrolled will determine the requirements for your program completion and graduation. However, the university reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. The university also reserves the right to modify curriculum and alter or eliminate courses, certificates, and degree programs without notice and, when reasonable under the circumstances, to change instructor, date, time and location, or cancel outright, courses already scheduled.

Students sometimes use the university catalog solely as a reference—a much-needed guide to degree requirements, courses, or deadlines for financial aid and scholarship applications. The university’s other publications will provide even more detailed information on when and where to register, and when and where specific courses are being taught. But college catalogs—and the Armstrong State University Catalog is no exception—may have other uses as well.

The many hours you spend earning a degree at Armstrong make the university your academic home town. You will want to use the catalog as a way to get to know your community. Browsing through this catalog may yield information as varied as the following:

• Evening and weekend classes, in addition to seven-week flex terms, offer flexible scheduling.
• Pre-professional programs in dentistry, medicine, pharmacy, and veterinary medicine are available.
• Information about the university and its programs—and even class registration—is available on line at www.armstrong.edu.
• The graduate school offers advanced degrees in many fields and has its own catalog.
• Off-campus classes are available at Armstrong’s Liberty Center in Hinesville, and some degrees may be earned while attending classes there.
• Armstrong has an array of online learning opportunities in health professions, education, criminal justice and cyber crime, and information technology. All the programs are listed at armstrong.edu/online.
• Students may study abroad while earning academic credit at Armstrong.
• Services for students range from academic advisement and placement testing to computing and writing assistance.
• The Library holds over 215,000 bound volumes.
• More than 100 student organizations meet professional, academic, social, religious, and special interests.

The catalog is organized into the following sections: an overview of the university and its programs; admissions, financial, student services, and academic information; the university’s colleges, departments and program requirements; course descriptions; special programs such as learning support, study abroad and ROTC; and last, faculty and administration listings. A table of contents and index are available to help you locate information quickly, and the glossary provides some useful definitions of terms and acronyms. The current academic calendar is located on the inside front cover to help you plan your year, and “Where to Write or Call” on the inside back cover may help you find the fastest way to get your questions answered accurately.

The catalog can be an invaluable tool in planning your time at Armstrong State University. Keep it handy and use it often.
Accreditation

Armstrong State University is accredited by Southern Association of Colleges and Schools Commission on Colleges (SACS-COC) to award associate, baccalaureate, masters and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, or call 909.679.4500 for questions about the accreditation of Armstrong State University.

Normal inquiries about Armstrong, such as admission requirements, financial aid, educational programs, etc. should be addressed directly to Armstrong (912.344.2576) and not to the Commission. The Commission is to be contacted only if there is evidence that appears to support an institution’s significant non-compliance with a requirement or standard.

Armstrong State University programs have earned the following special purpose accreditations:

Chemistry—by the American Chemical Society Committee on Professional Training, subject to annual review.

Communication Sciences and Disorders—by the Council on Academic Accreditation (CAA) of the American Speech-Language Hearing Association (ASHA) for 2009-2016.


Health Services Administration—by the Commission on Accreditation of Healthcare Management Education for the period 2009-2015.


Music—by the National Association of Schools of Music for the period 2005-2015.

Nursing (Baccalaureate and Master’s degrees)—by the Commission on Collegiate Nursing Education for the period 2006-2016.


Respiratory Therapy—by the Commission on Accreditation for Respiratory Care (CoARC) 1248 Harwood Road, Bedford, TX 76021 (817) 283-2835 (817) 354-8519 www.coarc.com for the period 2008-2018.

Teacher Education Programs—by the National Council for the Accreditation of Teacher Education [Council for the Accreditation of Educator Preparation] and the Georgia Professional Standards Commission for the period 2010-2017.
Programs

Armstrong-Savannah State Exchange Program

Any Armstrong student who is registered for a minimum of nine (9) credit hours at Armstrong may register for no fewer than three (3) and no more than six (6) credit hours at Savannah State University (SSU) without paying any additional fees. This program requires that the student register the transient courses to be taken at SSU with the Registrar’s Office via completion of the Armstrong-Savannah Exchange Program Form. However, more than one half of the semester hours must be taken at the home university.

Cooperative Education Program

In the cooperative education program, students typically alternate semesters between college and work. This program offers students valuable practical experience as well as financial assistance in the form of compensation from the firms employing them. Cooperative opportunities are available to students in computer science, chemistry, and engineering, but are not limited to these majors. Cooperative students must register for the cooperative education program for semesters in which they work. This course carries no credit and there is no charge for registration. Students interested in applying for admission to the cooperative education program should contact the head of their major department and the director of career services.

Degree Programs

Degree programs are listed by college and department in the table of contents, at the end of the section on Academic Policies and Programs, and at the beginning of the section for each college and department. Minors and certificate programs are described in detail in the departmental listings.

Dual-Degree Programs

Armstrong has dual-degree programs in engineering with the Georgia Institute of Technology, Auburn University, Clemson University, Mississippi State University, and the University of Florida. Upon completion of the first three years of academic work at Armstrong, students may enroll for two subsequent years at one of the participating schools. Upon completing the requirements of the two cooperating schools, students receive a baccalaureate degree from Armstrong and a baccalaureate degree in the chosen field of engineering from the second school. Contact the engineering studies coordinator in the College of Science and Technology for additional information.

Evening and Weekend Programs

To accommodate students who are employed during the day, most core curriculum courses and many upper-division courses are offered in the late afternoon and evening. Because evening courses are offered on a rotational basis, students may take longer to complete degree requirements by attending evening classes exclusively than by attending day classes or a combination of day, evening, and weekend classes.

Honors Program

Entering students may apply to the honors program if they graduate with a 3.2 grade point average on a 4.0 scale and either score greater than 1100 on the critical reading and mathematics portion of the SAT or have a 24 or greater composite ACT score. Students scoring 3 or better on each of three advanced placement examinations of the College Board are also eligible to apply. Currently enrolled and transfer students may apply to enter the Honors Program if they have at least a 3.2 overall grade point average in university course work and are either enrolled in or
have completed an Honors course. Transfer students may apply to enter the honors program under special conditions that consider courses transferred into the university. Honors courses in the core are open to all students who meet the published prerequisites.

Online and Blended Learning

For students who need more flexibility surrounding when and where their classes take place, Armstrong complements on-campus (face-to-face) course offerings with online course delivery. These courses, taught partly or fully using the Desire2Learn learning management system, are designed to meet the needs of students balancing commitments in addition to school. This is done using three levels of online course delivery and two types of academic programs.

The three levels of online course delivery are:

1. **Hybrid**: more than half the course is delivered on-campus and less than half delivered online
2. **Partly online**: 51% to 95% online and the rest on-campus
3. **Fully online**: 95 – 100% online and little or no requirements on-campus

Note that while most online components are asynchronous (available anywhere there is internet connectivity and at any time), a growing number of online courses do have synchronous activities (learning activities where all students must meet online at the same time). Instructors make every effort to accommodate student schedules when scheduling synchronous activities.

Armstrong also offers a growing number of programs, certificates, and degree programs with online courses:

1. **Blended** programs consist of a mix of partly and fully online courses
2. **Online** programs include only online courses.

Online and blended learning provides considerable flexibility—often contributing to student success where location or time commitments would have made school impossible—but online and blended programs are just as rigorous as on-campus programs. Instructors interact with students regularly, assignments must be completed by due dates, attendance is measured by online participation and attendance verification assignments, students interact with their peers using discussions, and, increasingly, using blogs, wikis, voice, video and other tools.

Should you take advantage of Armstrong’s online and blended programs or courses? If you have life demands that are hard to meet while taking conventional on-campus courses, and you can meet course time requirements without the structure of regularly scheduled classes, then Armstrong’s online and blended programs may be for you. If you would like to pick up some courses over the summer while you are out of town on vacation, taking them online may help you graduate sooner. And even if you are not sure you can take advantage of our online offerings, the exciting technologies are enhancing on-campus courses, bringing the benefits of the newest technologies to all of Armstrong’s students.

Pre-Professional Programs

Armstrong State University offers courses appropriate for the first two years of a baccalaureate program - such as engineering, and industrial management – that are not offered among its degree programs, and offers the pre-professional study appropriate for dentistry, medicine, pharmacy, veterinary medicine, and other professional fields.

Regents Engineering Transfer Program (RETP)

The Regents Engineering Transfer Program (RETP) is a cooperative program between Armstrong State University, Georgia Institute of Technology (Gatech), Georgia Southern University (GSU), Southern Polytechnic College of Engineering and Engineering Technology, and the University of Georgia (UGA). RETP students take the first two years of engineering course work at Armstrong and those satisfying RETP specific GPA requirements are guaranteed acceptance into a Bachelor’s in Engineering program at one of the aforementioned partner institutions. For 2016, students transferring to Georgia Tech are required to maintain a 3.0 Math/Science GPA and 3.0 overall
GPA, while students transferring to any of the other three institutions are required to maintain a 2.5 Math/Science and 2.5 overall GPA. Georgia Tech’s RETP program supports Aerospace, Biomedical, Chemical & Biomolecular, Civil, Environmental, Computer, Electrical, Industrial, Materials Science, Mechanical, and Nuclear & Radiological engineering degrees. The other transfer institutions’ RETP program supports Mechanical, Electrical, Mechatronic, Manufacturing and Civil engineering degrees.

62 Plus Program

62 Plus is an Armstrong Atlantic program of lifelong learning for students who are at least 62 years of age at the time of registration. They may enroll in credit courses on a space-available basis without payment of fees, except for books, supplies, laboratory, parking or special course fees. They must be residents of Georgia for at least one year and must present a birth certificate (or comparable documentation of age) to enable the admissions office to determine eligibility. Non-degree-seeking 62 Plus students must submit a non-degree application, and an official transcript from the last college attended. If students never attended college, they may submit an official high school transcript or official GED scores. Students whose scores or high school transcripts are not available, must sit for a COMPASS exam and score at or above regular admissions scores. 62 Plus students seeking a degree must complete a regular application for admission, submit official transcripts from all previously attended colleges and meet our nontraditional student admission requirements. If students never attended college, they may submit an official high school transcript or official GED scores. Students whose scores or high school transcripts are not available, must sit for a COMPASS exam and score at or above regular admissions scores.

Information about this program may be obtained from the Office of Student Affairs. Once 62 Plus students have earned ten semester hours (including institutional credit), they will be required to fulfill any Learning Support requirements, only exception being audit-only students. All 62 Plus students must be registered by the Registrar’s Office for fees to be waived.

Resources

Armstrong Liberty Center

The Armstrong Liberty Center, located in the heart of Hinesville near the main gate of Fort Stewart, offers a wide range of core courses and degree programs for students in Liberty and surrounding counties who would like to pursue higher education locally. To accommodate varied work schedules, the Center offers daytime, evening courses, full semester and flex-term courses. Students should contact the Armstrong Liberty Center at 912.877.1906 for admissions information and schedule of class offerings.

Cyber Security Research Institute

The institute is a component of the Armstrong Police Department and forms public/private alliances between academia, government, corporations and cutting-edge technology firms to create and provide a secure collaborative environment in which to share and transfer knowledge in order to make a significant positive impact on the future of Cyber and Homeland Security. The Armstrong Police, faculty, and partners foster the development of technologies, tools and methodologies relevant to cyber security, information assurance, computer forensics, and internet related investigations through the operation of secure state of the art cybercrime labs within the Armstrong Police Department.

Lane Library

The library, through its collections and services, supports the academic programs of the university and the scholarly information needs of Armstrong students, faculty and staff. Named for Mills B.
Lane, prominent Savannah-Atlanta Banker, philanthropist, and an early patron of the university, Lane Library was built in 1966 and substantially enlarged in 1975. The building was completely renovated in 2005-2006. The space devoted to library services grew by 25% with the 2013 opening of the Learning Commons in an adjacent renovated building. The Learning Commons features group study rooms, Macs and PCs, Wi-Fi access, and a variety of furniture ideal for group and individual study.

The library collections include more than 215,000 volumes, 500 journal and magazine subscriptions, over 2,900 online journals, 80,000 electronic books, and approximately 7,200 audiovisual titles, including compact discs, videocassettes, DVD’s and educational software. Special collections include the University Archives and the Florence Powell Minis Collection, which contains published materials on local history and culture and first editions by Conrad Aiken and other Savannah writers.

In addition, through the state-sponsored GALILEO system and through locally selected resources, library users have online access to over 200 bibliographic and full-text databases of books and journal articles. Books from other University System of Georgia Libraries can be requested free-of-charge through the GIL Express service. Most journal articles and books that are not otherwise available can be obtained from other libraries in the United States via an interlibrary loan service.

To guide students through the maze of print and electronic sources, reference librarians provide a number of services, including: instruction sessions for classes on the selection, evaluation, and use of course-related library and information resources; individualized assistance at the reference desk by a professional librarian during most hours of library operation; e-mail, IM, and text reference service (Ask A Librarian) and telephone references service; research consultations, scheduled in advance, for students who desire extended, in-depth assistance with their research.

Off-campus library services for Armstrong programs are supported online library services through Lane Library and by local libraries. Off-campus students have access to online library resources via the library webpage (http://library.armstrong.edu) using their Armstrong Port login or the GALILEO password. From the webpage, students can view listings of the library’s books and media through the links to GIL and GIL Express; bibliographic and full-text databases are available to off-campus, currently-enrolled students through the links in the library Subject Guides. Off-campus students may also request materials that are not available in full text online by using the library’s interlibrary loan service.

Public Service Center

The Armstrong State University Public Service Center assists public organizations in identifying and resolving complex urban and regional issues. The center provides faculty and staff training and expertise to help public and private sector agencies design more effective, efficient means to deliver services. City and county governments; nonprofit human service and cultural groups; boards of education; colleges and universities; and state, regional, and local agencies all may benefit from the center’s programs and services.

Services offered have grown to include the following specialties:
- applied research and analysis of issues and problems;
- program evaluation and survey research;
- analysis and consultation on policies, procedures, and operations;
- in-service training and personnel assessment;
- program development and planning to improve delivery of services;
- information collection and dissemination;
- grant and proposal writing.

Road Scholar

Road Scholar is an educational adventure for older adults. Participants from all over the world travel to college campuses, recreational sites, and conference centers in over 47 countries for academic and cultural enrichment. Participants are on site for a week, usually participating in three
courses set up by the program coordinator. These courses are strictly informational, require no testing or grading, and are often supplemented by tours and extracurricular activities.

Armstrong State University has been providing Road Scholar since 1986 and now offers more than 40 weeks of programming per year at two sites: mid-town and historic Savannah. Armstrong’s program is open to applicants from the community, nation, and abroad. Individuals 50 years of age and older are eligible. The program brings in more than 2000 participants annually, contributing to Georgia’s status as the second most popular state in the program.

The Armstrong Center

The Armstrong Center serves as a meeting space for private, academic, and corporate groups, while serving the needs of the university community by providing additional classrooms and meeting space. The Center consists of specialized learning environments for conferences, workshops, symposiums, meetings, professional development, training and public and private events. Student organization meetings may be held in the Center as referred through the Office of Student Activities.

The Center features some flexible and informal gathering spaces that can be ideal for exhibits, receptions, and other social functions. The Armstrong Center will work with clients to meet program needs, while ensuring adequate traffic flow and minimizing noise disruptions for all users. Food and beverage service is available only through Armstrong Catering. Clients may not bring outside food and/or beverages on the premises. The Center is equipped with a variety of AV technology including LCD and overhead projectors, VCR/DVD/CD players, projection screens and sound systems. Parking in the Armstrong Center lot for those attending programs within the Center is free of charge. The Center, including the surrounding outdoor space, is a smoke-free facility and conforms to the 1990 Americans with Disabilities code specifications.

The Office of Advancement

The Office of Advancement consists of the offices of alumni relations, development, and marketing and communications. Advancement also provides administrative assistance to the Armstrong State University Foundation, Inc. and the Armstrong Alumni Association.

Marketing and Communications. The Office of Marketing and Communications provides a proactive communications program that informs and educates a wide array of audiences about Armstrong’s role as a premier university and community leader. The office promotes the university, its students, faculty, staff, alumni, and activities through the creation of the University website, numerous external promotional materials and through interaction with representatives of the local, regional, state, and national media. The staff provides publication support to all units of the university, from graphic design and photography to writing and editing, and special events.

Advancement. The Office of Advancement includes annual, major and planned giving along with advancement services, donor relations, corporate and foundation relations, and prospect research. Working in collaboration with the Armstrong State University Foundation, Inc., the office develops and initiates fundraising activities and programs to prospective donors who share the mission and goals of Armstrong State University. Donations provide the university with support unavailable through state appropriations allowing the faculty and administration to respond to opportunities for growth and innovation. Gifts are also used to assist students through scholarships and other financial assistance, support faculty development and professorships, sponsor symposia and guest lecturers, enhance library holdings and facilities, and assist in other special projects and programs. Private support helps sustain Armstrong’s goal of student success. The services advancement provides includes maintaining constituent data such as contact information and directing gifts to proper foundation accounts.

The Armstrong State University Foundation, Inc. is a direct support organization and the legal entity for receiving gifts to the university. Contributors to the foundation, a 501C(3) tax-exempt charitable organization, are entitled to all tax benefits authorized by law.

Alumni. The alumni office works to enhance the relationship between Armstrong and its alumni. We facilitate services for alumni, uphold Armstrong traditions, and communicate with alumni, current and future students, and the community.
Donor centered fundraising efforts and activities include annual, major, planned and corporate & foundation giving programs. Support services including donor relations, prospect research, foundation relations, gift processing and records management.

Organized in 1937, the Armstrong Alumni Association is comprised of graduates and former students of Armstrong Junior College, Armstrong State College, Armstrong Atlantic State University, and Armstrong State University. The association promotes interaction among alumni, students, faculty, staff, and friends of the university in order to strengthen the ties between the institution and its supporters. Each year the alumni association recognizes individuals who have made outstanding contributions to the university and the association, by presenting the Distinguished Alumni Award and the Outstanding Alumni Service Award.
Admissions

Armstrong State University welcomes students who wish to pursue a college program of study. The Office of Admissions works to ensure that the admissions process is fair and seamless for all students. Service to students is our priority, and academic achievement is expected, nurtured, and rewarded. If you have any questions about admissions policies, please call us at 912-344-2503 or 1-800-633-2349. We look forward to hearing from you and wish you well in your university studies.

Admission Requirements

**All New Applicants.** All applicants must submit the following:
- undergraduate admissions application (www.admissions.armstrong.edu)
- a $25 nonrefundable application fee
- certificate of immunization (All new applicants to the university must submit a University System of Georgia Certificate of Immunization form verifying immunity against measles, mumps, rubella, chicken-pox, tetanus, and hepatitis B [if under 18] prior to registering for classes.)

**Freshman Applicants.** Applicants applying for freshman admission must submit the following additional documentation:
- official high school transcript from all high-schools attended.
- official Scholastic Aptitude Test (SAT) I or American College Test (ACT) score report.

The word “official” indicates that documents must be received directly from the forwarding institutions. All transcripts must be dated within one year of receipt.

Information on SAT or ACT tests administration may be obtained from:

The College Board SAT Program at www.collegeboard.com
The American College Testing Program at www.act.com

The College Board (SAT) code assigned to Armstrong State University is 5012. The ACT code assigned to Armstrong is 0786. Exceptions to the SAT and ACT requirements are discussed in the Special Admission Categories section.

**Transfer Applicants.** Transfer applicants must submit official transcripts from each institution attended and have a transfer grade point average of 2.0. If you transfer less than 30 credit hours, high school transcripts are required and SAT I or ACT scores may be required. See Transfer Admissions guidelines below. The word “official” indicates that documents must be received directly from the forwarding institutions. All transcripts must be dated within one year of receipt.

**Transient Applicants.** Students enrolled in other colleges or universities may apply to Armstrong for admission as transient students. Application for transient admission must be accompanied by permission letter from the registrar of the student’s home institution recommending the student as a transient student. Transient students who wish to remain at Armstrong longer than two semesters must apply, submit all official documentation and be admitted to the University. To be considered for admission the student must be in good academic standing.

**All applicants who are required to take the COMPASS** test. All applicants who are required to take the COMPASS** test must meet the following minimum scores on the COMPASS** test in order to be admitted:
- Reading 62
- Writing 32
- Math 20

Students may be required to enroll in learning support courses if they do not score at or above the minimum scores for placement (not admission) into learning support. COMPASS** scores are valid for 3 years from the original testing date and may be transferred to Armstrong from another University System of Georgia or Technical College System of Georgia school via official score report or transcript. Retakes may be requested by the student but may incur a fee. There is no
waiting period to retake a failed exam. See the Academic Assistance Program (Learning Support) section of this catalog for further details regarding the learning support program.

**COMPASS 5.0 exams will begin in Fall 2015. Students who take COMPASS 5.0 will not have a required minimum score on the COMPASS 5.0 exam for admission. Admission will be based on English Placement Index (EPI) or Math Placement Index (MPI). The minimum EPI for admission is 3032 and the minimum MPI for admission is 928.

Regular Freshmen Admission

Application Deadlines:
- Priority Application Deadline: May 15, 2016
- Regular Application deadline: July 15, 2016
- Commitment Fee (due upon acceptance, if planning to enroll at Armstrong): $50.
  Commitment fee is non-refundable if paid after May 1, 2016.

Applicants must meet all of the following minimum admission criteria to be eligible for regular admission to the university. Meeting minimum requirements does not guarantee admission to the university.

- Composite SAT critical reading and mathematics score of 900 or above on one exam, with a minimum critical reading=440, mathematics=410 (any combination must equal 900 or better), or
- Composite ACT score of 19 with a minimum ACT English score of 18 and ACT mathematics score of 18 (on one exam)
- SAT or ACT based Freshman Index* of 2006

*SAT Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500).
ACT Freshman Index = (High School GPA x 500) + (ACT composite x 42) + 88.

- In recognition of the fact that a limited number of students do not meet established standards but do demonstrate special potential for success, limited admission may be offered into the Armstrong Pirate Passage program.
- Students graduating from an accredited high school, prior to Fall 2012, with a College Preparatory Curriculum (CPC) Diploma must have a 2.50 high school grade point average (HSGPA) calculated on the grades in the 16 required units of the CPC.
- Students graduating from an accredited high school as of Fall 2012 or later must have a 2.50 HSGPA calculated on the grades in the required 17 units of the Required High School Curriculum (RHSC) of the Board of Regents. *Some students who have RHSC deficiencies may be able to satisfy them in the Pirate Passage program.

The high school grade point average is calculated only on RHSC course work required for admission.

Required High School Curriculum (RHSC) Requirements. A total of seventeen RHSC units in the areas below are required for regular admission to Armstrong.

<table>
<thead>
<tr>
<th>RHSC Area (Units)</th>
<th>Instructional Emphasis/Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (4)</td>
<td>• grammar and usage</td>
</tr>
<tr>
<td></td>
<td>• literature (American, English, and World)</td>
</tr>
<tr>
<td></td>
<td>• advanced composition skills</td>
</tr>
<tr>
<td>Mathematics (4)</td>
<td>• two courses in algebra, one in geometry, and one advanced mathematics course</td>
</tr>
<tr>
<td>Science (4)</td>
<td>• physical science or physics</td>
</tr>
<tr>
<td></td>
<td>• biology</td>
</tr>
<tr>
<td></td>
<td>• chemistry, earth systems, environmental science or an advanced placement science course</td>
</tr>
<tr>
<td></td>
<td>• one additional science course</td>
</tr>
</tbody>
</table>
• two of the science courses above must have a lab (one lab must be in a life science and one in a physical sciences)

Social Science (3) • social science courses including one in US studies and one in World studies

Foreign Language (2) • two courses in one language (including sign language) emphasizing speaking, listening, reading, and writing

A very limited number of students with RHSC deficiencies may be provisionally admitted and/or invited to Pirate Passage. Students may satisfy RHSC deficiencies as follows:

**English:** The student must pass COMPASS* placement tests English or complete Learning Support English; **Mathematics:** The student must pass the COMPASS* placement test in Mathematics or complete Learning Support Mathematics; **Science:** The student must complete an Area D.1 science course with lab, with a grade of C or better; **Social Science:** The student must complete an Area E course with a grade “C” or higher; **Foreign Language:** FREN 1001, SPAN 1001 with a grade of “C” or higher. All RHSC deficiencies must be completed before the student has earned 30 semester hours of college-level credit in order for the class to count for both RHSC and Core Curriculum credit. Students who accumulate 30 or more semester hours of college-level credit in the institution before completing all RHSC requirements may not register for other courses unless they also register for the appropriate course that meets the deficiency. **College courses taken to satisfy RHSC deficiencies after 30 earned hours cannot be used to fulfill Core Curriculum or degree requirements,** but they are calculated in the cumulative grade point average. The academic record of transfer students who satisfy RHSC requirements at another University System of Georgia institution will acknowledge that the requirements are met.

In addition to these minimum requirements, students are encouraged to take additional academic units in high school to improve their probability of admission and success.

Applicants who graduate from non-accredited high schools or those who were home-schooled, must meet Freshmen Index and GPA requirements. Students must take the SAT I or ACT and score at or above the Fall 2015 first-time full time freshmen class average. They must validate RHSC requirements. Options to validate completion of RHSC requirements are:

• Submit a portfolio of work or other evidence that substantiates the completion of the RHSC. This may include nationally recognized summation exams, SAT II exams and/or advanced placement scores.

• SAT II subject tests are administered through the College Board. The following minimums are required to document RHSC completion.

<table>
<thead>
<tr>
<th>SAT II Subject Test</th>
<th>Required Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Writing</td>
<td>520</td>
</tr>
<tr>
<td>English Literature</td>
<td>530</td>
</tr>
<tr>
<td>Math IC or Math IIC</td>
<td>500/570</td>
</tr>
<tr>
<td>American History and Social Studies</td>
<td>560</td>
</tr>
<tr>
<td>World History</td>
<td>540</td>
</tr>
<tr>
<td>Biology</td>
<td>520</td>
</tr>
<tr>
<td>Chemistry</td>
<td>540</td>
</tr>
<tr>
<td>Physics</td>
<td>590</td>
</tr>
</tbody>
</table>

In addition, an applicant must demonstrate foreign language proficiency at the level of two years of high school study.

**Graduate Admissions**

Graduate program specific admission requirements are listed in the Armstrong State University Graduate Catalog.
Traditional Transfer Admission

Applicants who have previously attended regionally accredited institutions of higher education are considered transfer students and must meet transfer admission requirements. Armstrong requires **ALL** official transcripts from post-secondary institutions (i.e. cosmetology schools, technical schools, etc.) regardless of accreditation in order to render an admission decision.

A transfer applicant who has completed fewer than 30 transferable semester hours, or are transferring from a non-accredited institution, or whose only attendance has been at a regionally accredited technical college in a non-transfer associate’s degree program, will be required to meet the traditional freshman admission requirements. Applicants who graduated from high school as of Fall 2012 or later must meet RHSC requirements. Students graduating prior to Fall 2012 must meet CPC requirements. Applicants transferring between 30-59 semester hours must have a 2.0 transfer GPA, completed all learning support requirements at the sending institution and must validate completion of CPC or RHSC requirements.

Transfer applicants will not be considered for admission unless official transcripts of the college or university last attended indicate academic eligibility to return to that institution. Any transfer applicant who is not academically eligible to return to the last institution attended will be denied admission to the university.

Specific programs in the College of Health Professions, College of Education and the Department of Art, Music and Theatre have additional requirements. Consult the Armstrong Admission webpage for requirements.

**Academic Standing and Grade Calculations.** Armstrong’s academic standing policy will be used to determine an applicant’s entering academic standing. To be eligible for continued enrollment, all transfer students are expected to maintain or exceed the required overall grade point average as indicated by Armstrong academic standing policy. For details, see Academic Standing in the section on Academic Policies and Programs.

Letter grades transfer at face value. Armstrong does not recognize + or - indicators when transferring credit from another institution. Incomplete grades also transfer and remain as grades of I until grade changes to remove them are received from previous institutions. College credit is not awarded for pre-college level and remedial courses, courses taken for diploma or certification purposes, continuing education courses, or vocational courses.

**Awarding of Transfer Credit.** The university makes every effort to transfer credit for academic work completed at other institutions. All transfer applicants must provide the admissions office with an official transcript of all credit earned at all previously attended colleges or universities, regardless of the transferability of credits. Students will be notified once all official transcripts have been received and the evaluation of college credit has been completed. Student transfer evaluation will be completed prior to first term of attendance. Transfer credit may be accepted from accredited colleges and universities. No transfer credit will be awarded from institutions not regionally accredited.

Credit earned at an accredited technical college may not transfer unless the credit earned equates to an associate degree (lower division) course. This transfer practice may be further defined by specific articulation agreements with individual technical schools or systems.

Armstrong State University reserves the right to refuse to accept any or all of the credits from other institutions, notwithstanding its accreditation status, when the university determines through investigation or otherwise that the quality of instruction at such institution is, for any reason, deficient or unsatisfactory. The judgment of the university on this question will be final.

Students may appeal individual course decisions.

Students who complete a course or area in the core curriculum at another University System of Georgia institution are guaranteed full credit for that course or area in transfer unless the student changes their intended major or program of study, or they complete a career degree program of study (i.e., non-transferable degree, such as Associates in Applied Science). Students completing the sending institution’s core curriculum are guaranteed full transfer credit regardless of changes in intended majors or programs of study. A department may require a student to enroll in a core curriculum course that is required for a specific major if that course was not taken to satisfy the core area requirement. Students may also be required to complete any core overlay requirements.
that were not met at the sending institution. Satisfaction of a core area at another University System institution does not exempt a student from satisfying any subsequent prerequisite for a future course. Transfer students who have not yet completed the equivalent of ENGL 1101 (Composition I) with a grade of C or higher should make an appointment to meet with the composition coordinator for an English placement interview prior to registration. The coordinator will assist the student in determining placement in the appropriate composition course(s), and evaluating other English course credits.

Transfer students from within the University System of Georgia may meet the state legislative requirements by satisfying the required course(s) at their sending institution or by completing Armstrong’s POLS/HIST 1100 course. Students who transfer the equivalent of POLS 1100 must complete Armstrong’s U.S. History course to satisfy all four state legislative requirements.

Transfer students from outside the University System of Georgia may meet the United States government requirement by completing an American government course. They may meet the Georgia government requirement by satisfactorily completing a test on Georgia’s constitution and government. This test is given on campus every term. Completion of a course in American history satisfies the requirements for both U.S. and Georgia history.

Meeting Degree Requirements. Transfer students must meet all applicable program requirements, for the catalog in which they are admitted, under the section on General Degree Requirements to graduate from Armstrong State University.

Non-Traditional Student Admission

Armstrong strives to be accessible to citizens who are not of traditional college-going age and to encourages life-long learning. The following admission categories are available to non-traditional students.

Non-Traditional Freshmen Admission. Non-traditional freshmen are defined as individuals who meet ALL of the following criteria:

1. Have been out of high school at least five years and whose high school class graduated at least five years ago;
2. Hold a high school diploma from an accredited or approved high school or have satisfactorily completed the GED; and,
3. Have earned fewer than 30 transferable semester credit hours from a regionally accredited institution.

Applicants must submit the following:

1. Application and application fee
2. Official high school transcripts or GED. The word “official” indicates that documents must be received directly from the forwarding institutions. All transcripts must be dated within one year of receipt.
3. If available, submit official SAT scores, not older than 7 years, of at least 500 on both the Verbal/Critical reading and mathematics section of the SAT of 21 on both English and Mathematics portion of the ACT
4. If SAT scores are not available or do not meet the minimums specified above, you may submit COMPASS* scores (taken at a USG or TCSG school) or take the COMPASS* exam. For admission, you must score at least: 62 on reading, 32 on writing and 20 on mathematics. Students are required to take only the sections of COMPASS* for which they do not have the required SAT/ACT minimum. COMPASS* exam scores are valid for up to 3 years from the original testing date.

*COMPASS 5.0 exams will begin in Fall 2015. Students who take COMPASS 5.0 will not have a required minimum score on the COMPASS 5.0 exam for admission. Admission will be based on English Placement Index (EPI) or Math Placement Index (MPI). The minimum EPI for admission is 3032 and the minimum MPI for admission is 928.
Non-Traditional Transfer Admission. Non-traditional transfer students are defined as individuals who meet ALL of the following criteria:

1. Have been out of high school at least five years or whose high school class graduated at least five (5) years ago; and,
2. Have earned thirty (30) or more transferable hours of college credit from a regionally accredited institution.

Applicants must submit the following:

1. Application and application fee
2. Transfer applicants must submit official transcripts from each institution attended. The word “official” indicates that documents must be received directly from the forwarding institutions. All transcripts must be dated within one year of receipt.
3. Must have a transfer grade point average of 2.0.

International Student Admission

Admission of international students is based on academic admissibility and English proficiency. International applicants needing an F1 visa must also document their ability to meet the financial requirements for attendance as required by U.S. Immigration regulations. For questions about international student admissions:

- Visit our website at [http://www.armstrong.edu/site/prospective_students4/homepage_international_students](http://www.armstrong.edu/site/prospective_students4/homepage_international_students)
- Call 912-344-3417 or toll free 800-633-2349
- Email admissions.info@armstrong.edu

International students, permanent residents, and naturalized citizens graduating from U.S. high schools must meet requirements and conditions set forth under the heading of “Regular Admission” in the Admissions section of this catalog. This includes completion of college preparatory subjects, submission of satisfactory scores on the SAT or the ACT, and satisfactory GPA. Students transferring from U.S. colleges or universities must meet the same requirements set forth in the “Transfer Admission” section of this catalog.

Applicants graduating or transferring from schools outside the United States will be considered for admission upon compliance with the following requirements:

- Freshmen (no previous college or less than 30 transferable credit hours):
  - Demonstrate the equivalent of graduation from a US high school.
  - Submit official high school records including exam results, certificates, diplomas, and/or transcripts in the native language. All educational documents must also be translated into English and translations must be official.
  - After graduation, submit an official document-by-document evaluation and GPA calculation from an approved evaluation agency. Approved agencies are located at www.naces.org.
    - Must have the equivalent of graduation from an accredited U.S. high school.
    - Must have a minimum 2.5 final high school GPA (Note: if the final high school GPA is below 2.5, an offer of admission may be revoked)
  - All students must submit SAT or ACT scores for placement into mathematics courses.
  - Non-native English speakers must submit satisfactory scores on the SAT Verbal/Critical Reading, ACT English, Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).
    - TOEFL Minimum requirements: 523 written, 193 computer, 70 internet
    - IELTS Minimum requirement: 6.0 overall bandwidth
  - Native speakers of English will be required to submit satisfactory scores on the SAT or ACT.

Transfer and Post-Baccalaureate (30 or more transferable credit hours or equivalency of a 4 year, U.S. Bachelor’s degree from a regionally accredited institution):
• Submit official higher educational records including certificates, degrees, diplomas, and/or transcripts in the native language. All educational documents must also be translated into English and translations must be official.
• Credentials from institutions outside of the U.S. are required to have a course-by-course evaluation from a professional evaluation agency. Approved companies are located at www.naces.org.
  o Minimum cumulative transfer GPA must be 2.0. The GPA is based on the evaluation completed by the approved evaluation agency.
• Submit an evaluation of international transcripts completed by an approved evaluation agency. Approved agencies for undergraduate admissions can be found at www.naces.org.
• All students must submit SAT or ACT scores for placement into mathematics courses.
• Non-native English speakers must submit satisfactory scores on the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).
  o TOEFL Minimum requirements: 523 written, 193 computer, 70 internet
  o IELTS Minimum requirement: 6.0 overall bandwidth

International students requiring a Form I-20 to request an F1 student visa must meet the following additional requirements:

• Prospective students must show official documentation from a financial institution showing a minimum of one year’s educational expenses before a Certificate of Eligibility (Form I-20) is issued. Having sufficient funds for the cost of living and educational expenses is required by U.S. Immigration regulations. Continuation of enrollment into a new program of study, such as a Master’s degree, requires additional financial documentation. There is no financial aid available for international students at Armstrong State University other than competitive scholarships for which students must qualify. International students on non-immigrant visas are not eligible for state or federally-funded loans or scholarships. The University assumes no financial responsibility for the student.
• Student is in the United States or students with a U.S. visa, must submit a copy of the visa, I-94, and passport.
• Permanent residents (green card holders) are required to submit a copy of their resident alien card.
• Students in F-1 visa status are responsible for making sure they comply with all laws regulating their visa status. Students are permitted to work on campus for a maximum of 20 hours a week. During summer semesters (if not enrolled) and official breaks, students are permitted to work on campus full time. Off-campus work is NOT permitted without specific authorization from Armstrong’s International Student Advisor or U.S. Citizenship and Immigration Services.
• F-1 visa law requires undergraduate students to carry a FULL course of study (12 credit hours minimum) during Fall and Spring Semesters. Summer Semesters are recognized as vacation terms and enrollment is not required.
• No more than one online class per semester may be counted toward the full course of study requirement.
• The University System of Georgia mandates all international students on an F1 or J1 visa to have adequate health insurance. Students are automatically enrolled in an insurance plan that is billed through the University. Students may request an insurance waiver if they have a plan that has comparable coverage.
Dual Enrollment Admission (Move On When Ready)

This program allows superior sophomore, junior and senior Georgia high school students, who are at least 15 years of age (by August 1 for Fall semester; January 1st for Spring Semester and June 1 for Summer semester), to enroll for college credit while concurrently enrolled in an accredited public or private high school or home-school. Students who are enrolled in a non-accredited high school, may be considered for admission and should contact the Academic Advising Center to discuss their enrollment eligibility. The university will consider students for this program only upon written recommendation of their high school principals or counselors. The number of courses for which the student is eligible to register in any one semester is determined by the student’s composite SAT/ACT score.

Students forfeit the privilege of this program if they receive a college course grade below C or their high school average in academic courses falls below B in any term. At the conclusion of each semester, course grades will be evaluated. Students who earn a course grade below C have the opportunity to submit an appeal to continue in the program. The deadline for appeals is 2 days before the semester begins. (Please refer to Academic Policies and Programs for detailed information and requirements).

Applicants must meet the following criteria to be eligible for dual enrollment admission:

- be enrolled in an accredited Georgia public or private high school or home-school;
- minimum composite SAT score of 1000 (combined critical reading and mathematics sections) or the ACT composite no less than 21;
- minimum SAT critical reading score of 500 or ACT English score of 21;
- minimum SAT math score of 500 or ACT math score of 21;
- minimum cumulative high school grade point average of 3.0 or higher in academic subjects;
- written recommendation from the high school principal or counselor;
- written consent of parent or guardian (if the student is a minor);
- transcript evidence that the student is on track to complete the University System of Georgia RHSC requirements.

Students in the MOWR program will have their tuition and fee costs paid for by State MOWR funds. However, students must pay out of pocket for individual course fees. MOWR students will use the MOWR book scholarship funds to rent text books from the Armstrong book store. Books not returned on-time or returned damaged will cause the student to incur an additional fee not covered by MOWR. Students and parents who wish to purchase their texts may do so for additional costs not covered by MOWR.

Non-Degree Student Admission.

Applicants who wish to pursue courses for personal enrichment or advancement may be admitted as non-degree students. To be considered, an applicant must possess a high school diploma (or have completed the GED satisfactorily).

Non-degree seeking applicants are required to complete a non-degree seeking student application and fulfill non-traditional admission requirements. Applicants who have not earned a baccalaureate degree must take the COMPASS* Placement Exam. Non-degree seeking students are allowed to enroll in a maximum of 12 semester credit hours. After earning 12 semester credit hours or change to degree seeking status, students will be screened for admission to the university. A non-degree seeking student who chooses to become degree seeking student must officially apply as a degree seeking student and meet all regular admission criteria for a degree seeking student. Non-degree students must satisfy all prerequisites, including learning support courses, before enrolling in courses.

Readmission

Students who have not been enrolled at Armstrong for three consecutive semesters must apply for readmission. Former students who have not attended another college since leaving Armstrong may be readmitted, provided they are not on suspension at the time they wish to reenter. Former
students who have attended another college since leaving Armstrong must meet transfer admission requirements as listed in the catalog in effect at the time of return. All readmitted students must follow the program of study outlined in the catalog in effect upon readmission, including semester hour requirements. Some readmitted students may qualify for Academic Renewal upon Admission.

**Students with Disabilities**

Students with disabilities are expected to meet the minimum SAT or ACT requirements but should request the appropriate testing accommodations from the testing agency. Students will not be penalized for taking standardized admissions tests, including the COMPASS®, with accommodations. Students with disabilities must meet the RHSC requirements; however, students with a documented disability that precludes them from acquisition of a foreign language may petition the Office of Admissions for admission without this requirement. Contact the Office of Admissions for procedures and requirements.

**SOCAD Program**

Active duty U. S. Army personnel and their dependents may elect to attend Armstrong State University under the provisions of the SOCAD Agreement. Applicants who have an active student agreement with another SOCAD institution should meet Armstrong’s admission requirements. Applicants who wish to earn a degree from Armstrong State University under the SOCAD provisions must meet either freshmen or transfer admission requirements.

**Veterans Affairs Program**

The Office of Veterans Affairs, located in Victor Hall, room 136, coordinates the GI Bill and all other related veteran educational benefit programs to more than 600 students attending the university. The Office of Veterans Affairs is the direct liaison between Armstrong State University veteran students and the Veterans Administration Regional Office in Atlanta regarding all GI Bill administrative issues. Armstrong State University does not have an advance payment agreement established with the Veterans Administration. Students receiving GI Bill benefits must be prepared to pay their tuition and fees at the time of registration. Veterans are encouraged to contact the Office of Veterans Affairs during their application and admission process to the university.

**Vocational Rehabilitation Applicant Program**

Applicants sponsored by vocational rehabilitation or other community agencies must apply at least six weeks before the beginning of any semester to insure proper processing of applications.

**Acceptance to the University**

Applicants must provide evidence of academic success in order to be admitted to Armstrong State University.

The university reserves the right to review any and all related documentation and employ appropriate means to assess the suitability of applicants for enrollment in the university. Acceptance or denial of admission to the university will be based upon the results of this review.

The university may require any applicant to appear for a personal interview and to take any achievement, aptitude, and psychological tests deemed necessary to make a decision regarding the applicant’s qualification for admission to the university.

The director of admissions determines final acceptance or denial of each application. Admission decisions are subject to the applicant’s right of appeal to the admissions and academic standing committee prior to the beginning of the desired term of entry. The committee will review appeals and make recommendations to the president of the university, who will render a decision. The university reserves the right to withdraw admission before or after enrollment if the student becomes
ineligible as determined by the standards of the university or Board of Regents. All students enrolled at Armstrong State University are required to abide by the provisions of the honor code.

The university reserves the right to deny admission to an applicant who is not a resident of Georgia. The university also reserves the right to refuse admission to programs that are filled or to those students whose transcript(s) are from an unaccredited institution. In accordance with Board of Regents Policy 4.3.4, each University System institution shall verify the lawful presence in the United States of every successfully admitted person applying for resident tuition status. Verification of Lawful Presence can be completed by one of the following methods:

**Method 1:** Students providing one of the following may be verified based on their documentation:
- A Certified Birth Certificate showing the student was born in the United States or a U.S. territory. A photocopy is not acceptable.
- A U.S. Certificate of Naturalization (USCIS form N-550 or N-570).
- A U.S. Certificate of Citizenship (USCIS form N-560 or N-561).
- A Certificate of Birth issued by the Department of State (DS-1350) or a Consular Report of Birth Abroad (FS-240).
- A current U.S. passport.
- A current driver’s license issued by the state of Georgia after January 1, 2008.
- A current state-issued ID issued by the state of Georgia after January 1, 2008.
- A current military ID (service member only, not dependent).
- A current Permanent Resident Card (USCIS form I-151 or I-551).

**Method 2:** Verification results provided by the U.S. Department of Education for students applying for federal student aid (FAFSA).

**Method 3:** Verification of visa status through the U.S. Immigration and Customs Enforcement’s Student and Exchange Information System (SEVIS) for students on an F, J, or M visa.

**Method 4:** Verification through the Systematic Alien Verification for Entitlements (SAVE) program for any naturalized U.S. citizen, immigrant or nonimmigrant who cannot be verified through method 1, 2 or 3 above.

**Appeals of Admission Decisions**

Students appealing to the university for admission must complete and submit an academic appeals form, found at the Office of Admissions webpage, to the Admissions Office in person or by fax to 912-344-3417. Appeals must clearly explain the nature of extenuating circumstances relating to the academic deficiency. The Armstrong Academic Appeals Committee will make a recommendation to the president, and the decision of the president is final.

Students admitted on appeal by the Academic Appeals Committee will enter on academic probation.

*Admission to the university does not guarantee admission to teacher education programs. Additional requirements are listed in the College of Education section of this catalog.*

*Admission to the university does not guarantee admission to health professions programs. Specific admission requirements are given in the departmental listings in the College of Health Professions section of this catalog.*

*Armstrong is dedicated to ensuring the privacy and proper handling of confidential information pertaining to students. Social security numbers are collected for all entering students for a permanent record, however an alternate student identification number will be issued.*
Student Fees and Financial Policies

Expenses and Fees

Principal expenses and regulations concerning the payment of fees are described herein. Fees and other charges are subject to change without notice. When such changes are made, notice will be given as far in advance as possible. Expenses are in the form of tuition, student services fees and other special fees. Fees are due and payable at the time of registration; registration is not complete until all tuition and fees have been paid. Out-of-state residents pay higher fees than Georgia residents. All tuition and fees are due at registration according to the guidelines of the Board of Regents of the University System of Georgia. There are no deferments of fees or payment plans. The university reserves the right to apply all payments, deposits, or financial aid to any unpaid student balances.

General Tuition Rate

Background: Effective Fall 2006, the Board of Regents established a General Tuition Rate for undergraduate students who entered for the first time as new students or as transfer students prior to Fall 2006 (BOR Policy Manual, Section 7.3.1.3). The General Tuition Rate may increase annually as approved by the Board of Regents.

Applies to: Current and continuing (readmits) undergraduate students enrolled prior to Fall 2006.
# Tuition and Fees Rate per Semester

## Fall 2015 through Summer 2016

(*General Rate*)

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*Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.*
TUITION AND FEES RATE PER SEMESTER OFF-CAMPUS COURSES FALL 2015 THROUGH SUMMER 2016

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Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.
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OFF-CAMPUS COURSES
FALL 2015 THROUGH SUMMER 2016

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Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.
TUITION AND FEES RATE PER SEMESTER
FALL 2015 THROUGH SUMMER 2016

MASTER OF HEALTH SERVICES ADMINISTRATION/MASTER
OF PUBLIC HEALTH

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Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.
TUITION AND FEES RATE PER SEMESTER
OFF-CAMPUS COURSES
FALL 2015 THROUGH SUMMER 2016

MASTER OF HEALTH SERVICES ADMINISTRATION/MASTER
OF PUBLIC HEALTH
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Tuition and fees are assessed at the course level in the student information system. Fees are subject to change.
## Tuition and Fees Rate Per Semester
### Fall 2015 Through Summer 2016

**Master of Science in Communication Sciences and Disorders**

### In-State

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*Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.*
## Tuition and Fees Rate Per Semester
### Off-Campus Courses
#### Fall 2015 Through Summer 2016

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*Tuition and Fees are assessed at the course level in the Student Information System. Fees are subject to change.*
# Tuition and Fees Rate per Semester
## Fall 2015 Through Summer 2016

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*Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.*
## TUITION AND FEES RATE PER SEMESTER
### FULLY ONLINE COURSES
#### FALL 2015 THROUGH SUMMER 2016

### UNDERGRADUATE PROGRAMS

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Institution</th>
<th>Tech Fee</th>
<th>Total E-Tuition and Fees</th>
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### GRADUATE PROGRAMS

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<td>12</td>
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<td>4,800 5,110</td>
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</table>

*Tuition and Fees are assessed at the course level in the student information system. Fees are subject to change.*
NOTE:

• Students who register for online courses only (no on-campus courses) are responsible for the mandatory Technology Fee and Board of Regents Institutional Fee.
• Students who opt to take one or more online courses in conjunction with on-campus courses will be responsible for all mandatory and any course-related fees. In addition, the E-Tuition rate will be assessed for each online course registered, no matter how many courses you are taking.
• Tuition is assessed based on the course level, not the student level. Undergraduate students taking graduate courses will be assigned the applicable graduate tuition rate for those courses. Graduate students taking undergraduate courses will be assigned the applicable undergraduate tuition rate for those courses.
• Students in specified courses may be subject to additional fees for laboratory materials or equipment. Examples include applied music or scuba diving classes. Such course fees are not covered by fee waivers, and are the student’s obligation.
• On-campus students must pay the following fees each semester: Activity fee, Athletic fee, Health fee, Recreation fee, Student Center fee, Student ID fee, Technology fee and the Institutional fee. On-campus courses are defined as being physically located in Chatham County.
• Students registered for a combination of on- and off-campus courses will be charged the following fees each semester: Activity fee, Athletic fee, Health fee, Recreation fee, Student Center fee, Student ID fee, Technology fee and the Institutional fee.
• Internet courses are categorized as off-campus courses. A course will be considered an internet course if 100% of the course instruction is delivered over the internet. Internet courses will only be assessed the Technology and Institutional fees.
• Mandatory Fees may be waived or reduced for: 1) Active duty military students. 2) Students enrolled for fewer than 5 hours. 3) Cross-registered students who reside or study at another institution and pay fees at the home institution. 4) Students who typically do not pay fees, such as senior citizens.
• Active duty military personnel and stationed in Georgia (except military personnel assigned to this institution for educational purposes) and their dependents are eligible for out-of-state tuition waivers. Documentation must be approved by the Registrar’s Office.
• Tuition and mandatory fees are waived for Georgia residents who present to the Registrar’s Office written documentation that they are 62 years of age or older and meet residency requirements.
• High school students enrolled in the Move on When Ready Program will have all Mandatory Fees waived except the Institutional fee, which will be reduced to $50.

Regents’ Policies Governing Residency Requirements

A. United States Citizens

Independent Students

An independent student who has established and maintained a domicile in the State of Georgia for a period of at least twelve (12) consecutive months immediately preceding the first day of classes for the term shall be classified as in-state for tuition purposes.

No student shall gain or acquire in-state classification while attending any postsecondary educational institution in this state without clear evidence of having established domicile in Georgia for purposes other than attending a postsecondary educational institution in this state.

If an independent student classified as in-state for tuition purposes relocates out of state temporarily but returns to the State of Georgia within twelve (12) months of the relocation, such student shall be entitled to retain his/her in-state tuition classification.
Dependent Students

A dependent student shall be classified as in-state for tuition purposes if such dependent student’s parent has established and maintained domicile in the State of Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term and:

1. The student has graduated from a Georgia high school; or,
2. The parent claimed the student as a dependent on the parent’s most recent federal or state income tax return.

A dependent student shall be classified as in-state for tuition purposes if such student’s United States court-appointed legal guardian has established and maintained domicile in the State of Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term, provided that:

1. Such appointment was not made to avoid payment of out-of-state tuition; and,
2. The United States court-appointed legal guardian can provide clear evidence of having established and maintained domicile in the State of Georgia for a period of at least twelve (12) consecutive months immediately preceding the first day of classes for the term.

If the parent or United States court-appointed legal guardian of a dependent student currently classified as in-state for tuition purposes establishes domicile outside of the State of Georgia after having established and maintained domicile in the State of Georgia, such student may retain his/her in-state tuition classification so long as such student remains continuously enrolled in a public postsecondary educational institution in this state, regardless of the domicile of such student’s parent or United States court-appointed legal guardian.

B. Noncitizens

A non-citizen student shall not be classified as in-state for tuition purposes unless the student is legally in this state and there is evidence to warrant consideration of in-state classification as determined by the Board of Regents. Lawful permanent residents, refugees, asylees, or other eligible noncitizens as defined by federal Title IV regulations may be extended the same consideration as citizens of the United States in determining whether they qualify for in-state classification.

International students who reside in the United States under non-immigrant status conditioned at least in part upon intent not to abandon a foreign domicile shall not be eligible for in-state classification.

Waivers*

An institution may award out-of-state tuition differential waivers and assess in-state tuition for certain non-Georgia residents under the conditions listed below. Notwithstanding any provision in this policy, no person who is unable to show by the required evidence that they are lawfully in the United States shall be eligible for any waiver of tuition differential (BoR Minutes, June 2010; October 2013).

Presidential Waivers

Out-of-state students selected by the institution president or an authorized representative, provided that the number of such waivers in effect does not exceed four percent (4%) for the University of Georgia, Georgia Institute of Technology, Georgia State University, and Georgia Regents University, and two percent (2%) for all other institutions of the equivalent full-time students enrolled at the institution in the fall term immediately preceding the term for which the out-of-state tuition is to be waived. Institutions awarding presidential waivers in the spring term semester may use either the fall term one year prior or the fall term immediately prior when calculating the number of allowable waivers. The proportionate percentage of out-of-state tuition waived shall be used when determining the number of waivers in effect such that a full waiver of out-of-state tuition counts as one waiver, while a 50% waiver of out-of-state tuition counts as a 0.5 waiver (BoR Minutes, April 2012; October 2013).
Institution presidents may award Presidential Waivers at their discretion to students within the following categories:

1. **Academic:** Students who have demonstrated the potential to excel within a particular program of study offered by the institution as evidenced by scoring within the top half of students matriculating at the institution or the top half of students matriculating within the particular program of study to which the student has applied. Institutions shall determine the top half using the academic criteria (e.g., Freshman Index, standardized test scores, GPA, artistic ability) applicable either for general admission to the institution or for the particular program of study to which the student has applied.

2. **Athletic:** Students selected to participate in the institution’s intercollegiate athletics program and who have demonstrated the potential to succeed within a particular program of study offered by the institution. The percentage of waivers offered within the Athletic category shall not exceed one-third (1/3) of the total number of Presidential Waivers which the institution is eligible to offer, i.e., 4% or 2%.

3. **International:** Non-citizen students who are not otherwise ineligible for a tuition differential waiver under this policy and who have demonstrated the potential to succeed within a particular program of study offered by the institution.

Institution presidents shall define institution-specific criteria and procedures for the awarding of and maintaining eligibility for Presidential Waivers and shall submit the institution-specific criteria and procedures for approval to the Chief Academic Officer no later than June 30 prior to the semester in which those criteria and procedures shall take effect. Extraordinary circumstances may arise justifying award of a Presidential Waiver under criteria not specified in this Policy but consistent with the Policy intent and in support of the institution’s mission. Presidents may offer an Academic Presidential Waiver in these circumstances but must first seek approval, on a one-time or standing basis, from the Chief Academic Officer. A student may be eligible under one or more Presidential Waiver categories but shall only be granted a waiver under one specific category and will only be counted within the category assigned by the institution. Institutions shall maintain evidence of said approval. Institutions shall maintain adequate documentation of waiver awards to validate that waiver recipients met the institutional criteria and complied with Board of Regents Policy.

Students receiving a Presidential Waiver must achieve a specified level of academic performance to maintain eligibility for the Presidential Waiver. Students receiving an academic or international Presidential Waiver must maintain a 2.5 GPA calculated on a cumulative basis at the conclusion of each academic year as specified in the respective institution’s approved procedures and using the same GPA method used to calculate Satisfactory Academic Progress (SAP). Students receiving an athletic Presidential Waiver must maintain SAP.

Failure to maintain the specified level of academic performance at the conclusion of the respective academic year shall result in the student being placed in a two-semester probationary period for waiver purposes. The student shall be eligible to maintain a waiver during this probationary period but shall be ineligible for the waiver if the student is not able to achieve the specified level of academic performance for the student’s specific Presidential Waiver sub-category. The student is eligible to re-gain the waiver, subject to the institution’s discretion and consistent with this Policy, should the student achieve the specified level of academic performance for the student’s specific Presidential Waiver sub-category.

**Border Residents**

1. Students domiciled in an out-of-state county bordering Georgia, enrolling in a program offered at a location approved by the Board of Regents, and for which the offering
institution has been granted permission to award Border County waivers (BoR Minutes, October 2008); or

2. Students domiciled in another state bordering Georgia subject to the following conditions. Each year, the Chancellor shall review the enrollment levels at each USG institution to determine whether any USG institutions have sufficient excess capacity to increase recruitment of students from neighboring states. Should the Chancellor determine that cause exists to activate the Border Residents waiver, the Chancellor or his designee will present the list of institutions to the Academic Affairs Committee of the Board of Regents for approval. If an institution is given permission to award the Border Residents waiver, it will be allowed to do so for the next three academic years. Any students receiving the Border Residents waiver will remain qualified for the waiver, so long as they are continuously enrolled at the institution that awarded the waiver. (BoR Minutes, March 2015)

Economic Development

1. Students who are certified by the Commissioner of the Georgia Department of Economic Development as being part of a competitive economic development project.

2. As of the first day of classes for the term, an Economic Advantage Waiver may be granted under the following conditions:

U.S. Citizens, Permanent Residents, and Other Eligible Non-Citizens

A. Dependent Students
Dependent students providing clear and convincing evidence that the student’s parent or U.S. court-appointed legal guardian relocated to the state of Georgia to accept full-time, self-sustaining employment. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded.

B. Independent Students
Independent students providing clear and convincing evidence that they, or their spouse, relocated to the state of Georgia to accept full-time, self-sustaining employment. The relocation to the state must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded.

C. U.S. refugees, asylees, and other eligible noncitizens as defined by the federal Title IV regulations may be extended the same consideration for the economic advantage waiver as citizens and lawful permanent residents of the United States.

Waiver eligibility for the above qualifying students expires twelve (12) months from the date the waiver is awarded.

Non-Citizens

A. Dependent Students
Non-citizen dependent students providing clear and convincing evidence that the student’s parent or U.S. court-appointed legal guardian relocated to the state of Georgia to accept full-time, self-sustaining employment and entered the state in a valid, employment-authorized status. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded. Additionally, the non-citizen dependent student must provide clear evidence that the parent, or U.S. court-appointed legal guardian, is taking legally permissible steps to obtain lawful permanent resident status in the United States.
B. Independent Students

Non-citizen independent students must provide clear and convincing evidence that they, or their spouse, relocated to the state of Georgia to accept full-time, self-sustaining employment and entered the state in a valid, employment authorized status. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded. Additionally, non-citizen independent students must provide clear evidence that they, or their spouse, are taking legally permissible steps to obtain lawful permanent resident status in the United States.

Waiver eligibility for the above qualifying students may continue provided full-time, self-sustaining employment in Georgia and the employment-authorized status are maintained. Furthermore, there must be continued evidence of Georgia domicile and efforts to pursue an adjustment to United States lawful permanent resident status.

3. Students who are employees of Georgia-based corporations or organizations that have contracted with the Board of Regents through USG institutions to provide out-of-state tuition differential waivers.

4. Students enrolled in a USG institution based on a referral by the Vocational Rehabilitation Program of the Georgia Department of Labor (BoR Minutes, October 2008).

5. Career consular officers, their spouses, and their dependent children who are citizens of the foreign nation that their consular office represents and who are stationed and living in Georgia under orders of their respective governments.

Employee

1. Full-time USG employees, their spouses, and their dependent children.

2. Full-time employees in the public schools of Georgia or the Technical College System of Georgia (BoR Minutes, October 2008), their spouses, and their dependent children.

3. Teachers employed full-time on military bases in Georgia also shall qualify for this waiver (BoR Minutes, 1988-89, p. 43).

Military

1. Military personnel, their spouses, and their dependent children stationed in or assigned to Georgia and on active duty. Military personnel, their spouses, and their dependent children may continue waiver eligibility if:
   • The military sponsor is reassigned outside of Georgia, and the student(s) remain(s) continuously enrolled and the military sponsor remains on active military status;
   • The military sponsor is reassigned out-of-state and the spouse and dependent children remain in Georgia and the sponsor remains on active military duty; or,
   • The active military personnel and their spouse and dependent children are stationed in a state contiguous to the Georgia border and reside in Georgia. (BoR Minutes, February 2009; October 2013)

2. Active members of the Georgia National Guard stationed or assigned to Georgia or active members of a unit of the U.S. Military Reserves based in Georgia, and their spouses and their dependent children (BoR Minutes, October 2008).

3. Members of a uniformed military service of the United States who, within thirty-six (36) months of separation from such service, enroll in an academic program and demonstrate intent to become domiciled in Georgia. This waiver may also be granted to their spouses and dependent children. (BoR Minutes, June 2004; October 2008; October 2013).

Reciprocal

1. Students selected to participate in programs offered through the Academic Common Market.
2. Any student who enrolls in a USG institution as a participant in an international or domestic direct exchange program that provides reciprocal benefits to USG students (BoR Minutes, October 2008)

3. Any student who enrolls in a USG study-abroad program to include programs outside the State of Georgia but within the United States and study abroad programs outside the United States. Tuition and fees charged study abroad students shall be consistent with the procedures established in the USG Business Procedures Manual and as determined by the institution president.

Research University Graduate Students
1. Graduate students attending a Research or Comprehensive institution and as determined by the respective institution’s approved procedures. The number of students currently receiving waivers under this category shall not exceed the number assigned below:

   - University of Georgia: 160
   - Georgia Institute of Technology: 140
   - Georgia State University: 140
   - Georgia Regents University: 40
   - Georgia Southern University: 20
   - Kennesaw State University: 20
   - University of West Georgia: 20
   - Valdosta State University: 20

2. Medical and dental residents and medical and dental interns at Georgia Regents University.

Non-Resident Students
As of the first day of classes for the term, a non-resident student can be considered for this waiver under the following conditions:

   • If the parent, or United States court-appointed, legal guardian has maintained domicile in Georgia for at least twelve (12) consecutive months and the student can provide clear and legal evidence showing the relationship to the parent or United States court-appointed, legal guardian has existed for at least twelve (12) consecutive months immediately preceding the first day of classes for the term. Under Georgia code, legal guardianship must be established prior to the student’s 18th birthday (BoR Minutes, October 2008, title amended February 2010); or
   • If the student can provide clear and legal evidence showing a familial relationship to the spouse and the spouse has maintained domicile in Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term (BoR Minutes, February 2010).

2. Students 24 and Older.
   • If the student can provide clear and legal evidence showing a familial relationship to the spouse and the spouse has maintained domicile in Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term. This waiver can remain in effect as long as the student remains continuously enrolled (BoR Minutes, October 2008, title amended February 2010).

This waiver can remain in effect as long as the student remains continuously enrolled (BoR Minutes, October 2008).

If the parent, spouse, or United States court-appointed, legal guardian of a continuously enrolled non-resident student establishes domicile in another state after having maintained domicile in the State of Georgia for the required period, the non-resident student may continue to receive this
waiver as long as the student remains continuously enrolled in a public post-secondary educational institution in the state, regardless of the domicile of the parent, spouse or United States court-appointed, legal guardian (BoR Minutes, June 2006, amended October 2008).

Residency Reclassification

Students are responsible for registering under the proper residency classification. Initial determination of residency is made by the Admissions Office for students during their first semester of enrollment. Determination of residency status for continuing students is done by the Office of the Registrar. Any student who wishes to appeal either one of these decisions must complete the Petition for Georgia Resident Classification form and submit it to the Registrar with all other supporting documentation. The appeal must be submitted by the end of the 5th week of the semester for fall and spring and by the end of the 1st week of the summer term. Appeals submitted after these deadlines will not be reviewed. Appeals of the decision of the Registrar may be made to the Provost's Office no later than the 10th week of fall or spring and no later than the 3rd week of the summer term. The decision of the Provost's Office is final. If the petition is granted, reclassification will not be retroactive to prior semesters.

Bordering Agreements

Bordering Counties. Armstrong State University has bordering county tuition agreements with Jasper and Beaufort counties in South Carolina. The “South Carolina Border Waiver” form is available in the Registrar’s Office and online. If the Border County waiver is granted, the waiver will not be retroactive to prior semesters.

Bordering States. Armstrong State University has received approval to award Border Resident waivers to undergraduate students who are residents of Alabama, Florida or South Carolina. The Border State Waiver form is available in the Registrar’s office and online. If the Border State Waiver is granted, the waiver will not be retroactive to prior semesters. All waiver requests must be submitted by the end of the 5th week of the semester for fall and spring and by the end of the 1st week of the summer term. Waivers submitted after these deadlines will not be reviewed.

Bursar’s Office

The Bursar's Office is located on the second floor of Victor Hall. The regular office hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Hours are extended during registration.

Off-Campus Fees

Students enrolled exclusively in courses categorized as "off-campus" will not be charged health, athletic, student center, access ID, activity, and recreation fees. “Off-campus” courses are those defined as being physically located outside of Chatham County. Students taking a combination of on and off-campus courses will be charged all of the applicable fees charged to on-campus students. All students pay a Technology fee and the Board of Regents Institutional fee.

Online Course Fees

A course will be considered Online if 100% of the course is delivered over the internet without an on-campus component. Students taking online courses will only be assessed the technology fee and the Board of Regents special institutional fee. Students taking a combination of on-campus and online courses will be charged all of the applicable fees charged to on-campus students. Students taking a combination of off-campus and online courses will only be assessed the off-campus fees listed above.
Other Fees and Deposits

Fee rates listed below are for Fall 2014 - Summer 2015.

Application Fee (Non-Refundable): ........................................ Undergraduate $25.00
.............................................................. Graduate $30.00
Must accompany initial application. Acceptance of application fees does not constitute acceptance of applicants.

Exit Exam Fees:
Announced in test bulletins.

Graduation Fee (Non-Refundable): .................................................. $63.00
Payable by each candidate for graduation when graduation application is submitted (two semesters prior to graduation). If candidate is receiving a second degree at the same graduation ceremonies, an additional $10.00 is due. The full $63.00 is charged for a second degree awarded at a subsequent graduation ceremony. A fee of $25.00 is charged for each replacement diploma.

Nursing Deposit (Non-Refundable): .................................................. $200.00
Medical Laboratory Science Deposit (Non-Refundable): ....................... $50.00
Radiologic Sciences Deposit (Non-Refundable): ..................................... $100.00
Physical Therapy Deposit (Non-Refundable): ........................................... $250.00
For accepted applicants to retain their position in the program.

Late Registration Fee (Non-Refundable): ........................................... $54.00
A late registration fee is charged to all students who do not complete registration by the close of business during the regular registration period. Registration is completed by registering for class(es) and paying all fees on your student account. Students who have completed registration during the regular registration period and subsequently add classes during late registration are not charged a late registration fee.

Late Payment Fee (Non-Refundable): ................................................. $54.00
A late payment fee will be added if a student’s tuition, fees, meal plan and housing are not paid after late registration. If a student gets financial aid, they must pay the balance of what they owe after they deduct the amount of financial aid they are to receive. This includes students receiving the Hope scholarship. Please call the Bursar’s Office if you need help in making this decision.

Special Institutional Fee ......................................................... $250.00 or $125.00 if under 4 credit hours
Student Parking Decal (Non-Refundable) ........................................... $50.00
Annual fee covering August 1 through July 31.

Student Recreation Fee ................................................................. $43.00
Student Athletic Fee ................................................................. $190.00
Student Activity Fee ................................................................. $49.00
Student Center Fee ................................................................. $110.00
Student Access ID Fee .............................................................. $15.00
Student Technology Fee ............................................................ $60.00
Navigate Armstrong Student Fee (Non-Refundable) ......................... $45/$55/$65/$75
Health Fee ................................................................................. $20.00
Residence Life Programming Fee .................................................. $30.00

Laboratory Science/Course Fees

Students enrolled in certain courses are required to pay an additional fee. The following lists those department charges. Please consult individual departments as to which courses their fees apply.

Art ......................................................................................... $15/30/70
Biology .................................................................................. $40
Chemistry ............................................................................... $25/40
Communication Sciences and Disorders ....................................... $75/100
Compass Exam ................................................................. $20/40/50
Computer Science ........................................................... $30
Diploma Replacement ....................................................... $25
Economics ......................................................................... $20
Engineering ....................................................................... $50
Health Sciences ............................................................... $25
ID Card Replacement ....................................................... $10
Information Technology ..................................................... $30
Intramural Forfeit ............................................................... $25
Language ............................................................................ $10
Math (fee, exam) ............................................................... $5/10/30
Math (for educators) .......................................................... $15
Medical Laboratory Science .............................................. $50
Music ................................................................................ $10
Nursing (lecture, lab, BSN, ATI exam) ................................. $35/45/388
Official Transcript ............................................................. $5
Physical Education - Golf .................................................... $50
Physical Education – Red Cross Certificate ........................ $10
Physical Therapy (lab, anatomy) .......................................... $25/75
Physics ............................................................................... $40
Pirate Passage Program ...................................................... $75
Pre-Intern Practicum ........................................................... $75
Psychology ......................................................................... $25
Radiologic Sciences (lab, seminar) ....................................... $30/50
Respiratory Therapy (lab, SAE) ........................................... $50/125/300
Teacher Practicum ............................................................. $625
Theater (video production) ................................................... $15
Tuition Deposit ................................................................. $50

Music Fees
All students (including music majors) taking applied music courses are required to pay a music fee.
MUSC 1300 (fourteen 25 minute lessons) .................................. $52.00
MUSC 1400-4400 (fourteen 50 minute lessons and one group performance class) ... $104.00
The applied music fee is refundable only if the student does not attend the first scheduled lesson.

Teacher Education Practicum Fee
Students admitted to teacher education programs in the College of Education are required to pay a $625.00 clinical education fee (to be assessed with tuition).

Continuing Education Courses (Non-Credit)
Fees are announced for scheduled courses (fees vary by course). Please contact the sponsoring department or agency for this information.

Refund Policy
Refund of tuition and fees may be requested only upon written application for withdrawal from school. A Withdrawal Form should be completed in the Office of Student Affairs. Refunds are based on the withdrawal date of the term’s calendar days, not how many times individual classes have met. The refund amount for students withdrawing from the institution shall be based on a
pro rata percentage determined by dividing the number of calendar days in the semester that the student completed by the total calendar days in the semester. The total calendar days in a semester includes weekends, but excludes scheduled breaks of five or more days and days that a student was on an approved leave of absence. The unearned portion shall be refunded up to the point of time that the amount earned equals 60%. Students who withdraw from the university when the calculated percentage of completion is greater than 60% are not entitled to a refund of any portion of institutional charges.

Refund checks will be made payable to the student regardless of who may have paid the fees. Refunds to students who paid by personal check will be delayed until assurance is made that the check is valid. Refunds are not made for graduation or late registration fees.

No refunds will be made to students dropping a course after the first day of class.

Students who register for classes, pay fees, and formally withdraw from school cannot re-register for that term.

Students who attend multiple sessions within the same semester may only qualify for a refund if they withdraw from all classes.

**Summer Term Refunds.** Due to the varying lengths of courses offered during the summer, refunds are based upon individual course length. Due to the multiple lengths of summer term classes, refunds for withdrawals and canceled classes will be mailed at the end of the semester.

**Return Check Policy**

When a check is returned by the bank for non-payment, the Bursar's Office will notify the student, place a hold on the student’s account, and assess all applicable service charges to the student’s account. The university expects the student to immediately rectify this situation.

A service charge of $30.00 or 5% of the check, whichever is greater, is assessed for returned checks. In addition to this charge, non-sufficient funds checks written for tuition payments will be assessed the late payment fee. Checks returned because of bank errors will be redeposited after written notification is received from the bank and a $30.00 service charge is paid by the student. No late payment fee is assessed for checks returned because of bank error. Students should request reimbursement of the service charge from their bank.

A stop payment of a check does not constitute a formal written withdrawal and is considered a returned check. Writing a non-sufficient funds check or stopping payment on a check does not cancel registration. Students whose check is returned for non-sufficient funds or who places a stop payment on a check must honor the check and pay the applicable service charges before withdrawing from the university. After honoring a returned or stop payment check and formally withdrawing in the office of Student Affairs, the student will receive a refund, if applicable.

A student whose check is returned for tuition may be dropped from classes. When the check and applicable charges are paid, the student may re-register subject to approval of all instructors for that term. If the check and charges are not paid, the student’s account will be placed on “hold” and the student must pay for the future enrollment in cash or cash equivalent for one year. A service charge of $30 or 5% of the returned check, whichever is greater, will be charged at the time of the subsequent enrollment.

If the student does not respond to the Bursar's Office notice and pay the check and applicable service charges, the student will be removed from the class if the check was written for tuition.

Students with returned checks who do not follow the correct procedures to redeem their checks will have their registration status put on "hold". After complying with the procedure, the "hold" will remain on their account for one year. A registration permit to register must be obtained from the Bursar's Office in order to register. The student may request the lifting of the "hold" after one year. After this year period, the student may request reinstatement of check writing privileges.
Fee Payment by Cash

All payments must be in U.S. currency. Cash payments can be made at the Bursar’s Office in Victor Hall.

Fee Payment by Credit Card

Fee payment by credit card in person. This may only be used to pay for graduation fees, testing fees, parking tickets, parking decals, and other miscellaneous fees. Credit cards accepted are American Express, Discover, VISA, and Mastercard. If you pay by credit card, you may be refunded by credit card depending on what the refund is for.

Fee payment by credit card over the WEB. Credit cards (American Express, Discover, and Mastercard) may be used over the web via Touchnet Paypath to pay for tuition, housing and meal plans. A 2.75% convenience fee will apply. No credit card payments will be accepted over the phone.

1. Go to the Armstrong website (www.armstrong.edu).
2. Click on Current Students.
3. Look under the Money Matters heading and click Bursar’s Office.
4. Click “Pay Online” button on the right side of the screen.

Fee Payment by WebCheck

Fee payment by WebCheck. Students may pay via WebCheck over the web via Touchnet. Follow the same steps as you would for paying by credit card, but select Webcheck. You will then be asked for your routing number and account number for your checking or savings account. No convenience fees apply when paying by WebCheck.

Fee Payment by Check

Checks should be made payable to Armstrong State University or Armstrong and addressed to Bursar – Tuition Payments, Armstrong State University, 11935 Abercorn Street, Savannah, Georgia 31419. Checks must have a printed bank account number. The university will not accept any checks in which account numbers are hand-written. The total amount due on the invoice (including encumbrances) must be paid in order for the university to accept payment. Encumbrances are other debts owed by the student to the university. Only full payments will be accepted. If you are making a partial payment by check and the rest by cash, you must go to the Bursar’s Office in Victor Hall. Students who have financial aid and pay the balance with cash/check must pay their fees to the cashier during regular registration. Students who mail their invoice and check to the Bursar’s Office cannot be guaranteed enrollment unless their envelope is sent by registered mail and is received by the Bursar’s Office by the appropriate deadline.

The student’s student identification number should be listed on the check. Only checks drawn on U.S. banks will be accepted.

Do not submit a check that you know will be returned by your bank. Payments for returned checks will be accepted only in cash, cashier’s check, or money order.

Students with balances from previous semesters must pay in cash, money order, credit card, or cashier’s check in order to have “holds” lifted immediately. If you pay by check or WebCheck, “holds” will remain until proof is provided that the check cleared the bank or you will have to wait 30 days until the hold is removed.
Fee Payment using Nelnet

Students may use Nelnet, a company that offers a pre-payment plan. Armstrong partners with Nelnet allowing students to pay tuition and fees over time, making college more affordable. There is a $60.00 enrollment fee per semester to enroll in the plan if enrolled prior to the early enrollment deadline, or $70 for the later deadline.

Steps to Enroll: Go to www.armstrong.edu, click on tuition and fees at the bottom of the page. Next, click on “Enroll in a payment plan”, click “Sign up for a payment plan”. Payments may be made by automatic bank payment (ACH), and Credit card/ debit card. (An additional convenience fee will be assessed.)

Fee Payment by Cellphone

Go to www.m.armstrong.edu and use the pay online button on the log-in page.

Financial Aid Student Payment

Students who have financial aid will have their aid applied directly to their student account. “Excess” checks (a result of financial aid less tuition and other fees) will be available weekly after the third week of classes throughout the term as financial aid is processed.

Students who do not pre-register or do not complete financial aid paperwork on time experience a delay in receipt of the “excess” check. In order to receive your “excess” check as soon as possible, you must pre-register and have all financial aid paperwork completed on time.

Financial Aid students who pre-register, but whose aid does not exceed fees, should submit the remaining payments by the published fee payment deadlines. Financial aid students who register and do not attend classes will not receive financial aid. Financial Aid students who register should go to the Bursar if they still owe fees. If their charges exceed aid, they will be charged for the unpaid amount.

Financial aid students that are scheduled to receive more financial aid than their balance will receive an “excess” check after verification of attendance has been completed, which occurs approximately three weeks after courses have begun. Students whose financial aid is not complete prior to the published fee payment deadline are required to pay their balances. Students who wish to pay any balances must pay by the fee payment deadline.

Financial Aid “Excess Checks”

All financial “excess” funds will be processed based on the information provided by the student to the Bursar’s Office. Students have the option to receive “excess” funds via direct deposit or by mail. For more information, please contact the Bursar Office. (An excess check is the net amount of financial aid less all fees and charges). “Excess” check processing will begin at the end of the third week of the term. After the third week, subsequent “excess” funds will be disbursed weekly. No “excess” checks will be released directly to students. Students should ensure that their correct mailing address is on file with the Registrar’s Office. It is the student’s responsibility to verify and update mailing address through the Port.

Direct Deposit: Students may have their excess financial aid money refunded directly to their checking account if they choose to sign up for Direct Deposit. Login to the Port, then Touchnet Bill Pay System.

Disbursement of financial aid will be made only if the applicant has completed all requirements for receipt of aid (see Disbursement of Financial Aid).

Student Account Information

The Bursar's Office and the Office of Financial Aid will no longer release specific student account information over the telephone. Students should inquire about their account through
the Port. Student account information will be released only if the student appears in person with applicable identification. Required identification is a picture ID and driver’s license or a Social Security card. This action was taken due to the increase in identity theft and because the caller’s identity cannot be verified.

If a student wants their parent to have access to account information, a Family Educational Rights and Privacy Act (FERPA) waiver must be on file in Victor Hall.

**Unpaid Financial Obligations**

By registering for classes or incurring other financial charges (housing, meal plans, etc.), a student is acknowledging responsibility for payment of amounts due. Failure to pay may result in legal measures to ensure collection. Collection fees of up to 33.333% will be added to the amount owed by the student.

**Financial Obligations**

Any student delinquent in the payment of any financial obligation to the university will have their grade reports and transcripts of records withheld. Grades and transcripts will not be released, nor will the student be allowed to register at the university until all financial obligations are met. Fees for each semester are to be paid in full at the time of registration.

**Off-Campus and Armstrong Liberty Center Financial Policies**

Students at the Armstrong Liberty Center and other off-campus locations follow regular payment guidelines. Payments must be received by Armstrong by published payment deadlines.

Students who participate in advance registration, registration, or late registration may use credit cards. Please see the previous section on specifics about paying by credit card. Partial payments, i.e., part credit cards/part cash or check, are not accepted.

**Financial Aid Students.** If you are an Armstrong financial aid student taking classes at an off campus location your checks will be mailed to your current address on file. If you have direct deposit, then watch for the funds to appear in your checking account.

**The student is responsible for:**

1. A HOPE transient certificate of eligibility will be sent to the institution you are attending. Students must contact the other institution’s financial aid office for the specific date of disbursement of funds.
2. All students attending other institutions must insure that their transcripts are sent to Armstrong’s Registrar’s Office. A delay in this step will cause future financial aid disbursements to be postponed until grades are received and reviewed.

The office of Financial Aid at Armstrong may be contacted at 912-344-3266 or 1-800-633-2349. Notification of registration after the start of the term will result in a substantial delay of the process of your financial aid or possible denial of aid.

**Refund Policy.** Students at the Armstrong Liberty Center and other off-campus locations follow institutional refund policy. Please consult with center staff for specific guidelines and procedures.
Financial Aid

General Information

The Office of Financial Aid provides guidance and support for students who need financial assistance to attend Armstrong State University (Armstrong). The primary responsibility for financing college education rests with students and their families. Financial aid is available to supplement family contributions and is provided through a combination of sources including scholarships, grants, loans, and part-time employment. Either the Free Application for Federal Student Aid (FAFSA) or the Renewal FAFSA must be used to help determine eligibility for Pell Grant, student loans and other Federal and State programs. Family income, assets, number of family members, number in college, and other factors determine eligibility. The university will attempt to assist students with the difference between the total expected family contribution and the cost of attending college. Any student admitted to or attending Armstrong is encouraged to apply for financial aid.

Student financial aid is most frequently awarded to eligible students on the basis of need or merit. Merit is determined by the entity who is providing the money to be awarded (for example, the state of Georgia, Armstrong, or private donors). Need based aid is determined by the federal government analysis of the data provided by the student’s family or, if independent, by the student on the completed FAFSA. This analysis is transmitted to the Office of Financial Aid where it is compared with the cost of attendance. The formula applied is: cost of attendance minus expected family contribution equals need (COA - EFC = Need). If the family contribution is less than the cost of attendance, financial need has been established.

In general, students who apply by the priority deadline will have their aid processed by that term’s beginning. Due to the fact that certain funds are limited, the Office of Financial Aid will award its yearly allocation of those funds to as many students as possible who meet the priority deadline and demonstrate the greatest need. Therefore, students are encouraged to apply as early in the year as possible.

The Office of Financial Aid helps students find ways to finance their education. However, federal and state law heavily regulates the financial aid application and awards process, and as a result the process takes time. At least thirty-percent of Armstrong students are selected for a process called verification. Armstrong’s Office of Financial Aid does not know who will be selected at the time students apply for aid. All students should be prepared to supply signed copies of their federal tax transcripts and W2s from the previous year, a completed verification worksheet, and a completed credit/benefits worksheet to the Office of Financial Aid. Students who are not considered independent by the federal government would also need to submit signed copies of their parents’ federal tax transcripts and W2s from the previous year. The Office of Financial Aid may also require a number of other documents before aid can be awarded. Please respond quickly and accurately to any and all requests for documentation from the Office of Financial Aid. Requests will be made via the students’ Armstrong email account. This is the Office of Financial Aid’s primary form of communication with students. Students are responsible for obtaining and maintaining their Armstrong email account. Students are encouraged to check their Armstrong email on a regular basis.

Only by meeting the priority deadlines can students expect to have funds available at the beginning of the semester. Students who do not meet the deadlines are required to pay their own fees for the semester. Please keep in mind that although we are here to help you, we are not responsible for delays caused by inaccurate or incomplete applications and files.

Mid Year Transfers. If you have attended another institution during the current academic year (June 30 of the current year to July 31 of next year), you must provide this information to the Office of Financial Aid. Aid received at another institution during this same academic year will be deducted from aid eligibility offered at Armstrong in accordance with federal regulations.
Application Information

An applicant for student financial aid must:

• be accepted and enrolled at Armstrong;
• complete and submit a signed FAFSA or Renewal FAFSA to the federal processor.
  Armstrong title IV code is 001546;
• students must complete an Armstrong Summer Application, in addition to the FAFSA, to
  have aid processed for the summer term.

Students are eligible for financial assistance provided they are making satisfactory academic
progress and meet the requirements of the student aid program(s) from which assistance is sought.
Federal aid cannot be used to pay for audited classes. (Audited courses are courses which are not
being taken for credit.) Transient students and exchange students are not eligible for aid from
Armstrong, but may seek assistance from their home institution. Students are required to adhere to
all regulations and requirements of the program from which they receive assistance, and to notify
the Office of Financial Aid of any changes in status that may affect their aid eligibility.

The minimum number of semester hours for which a financial aid recipient may enroll per
semester varies with each student aid program. Some require at least 12 hours per semester (full-
time status). Many programs require that the student be enrolled at least half-time, taking 6 or
more semester hours. (Graduate students are advised to refer to the 2015-2016 Graduate Catalog
or consult Registrar for information regarding half-time status).

• You must complete a FAFSA or a Renewal FAFSA to apply for grants, loans, and work-
study each year.
• Students should apply on the web at www.fafsa.ed.gov.
  For detailed information about Armstrong’s financial aid, visit our web site at www.finaid.
  armstrong.edu. For more federal student aid information call 1.800.433.3243 and request “The
  Student Guide” from the U.S. Department of Education. For information about state-funded aid,
you may visit www.gafutures.org.

GSFAPP. Students who are interested in being considered for a Zell Miller scholarship or
HOPE scholarship may complete the GSFAPP application. GSFAPP applications are available at
www.gafutures.org. Transfer students using GSFAPP to apply must notify the Armstrong’s Office
of Financial Aid and add Armstrong to their GSFAPP.

Available Information

In accordance with federal regulations governing Armstrong’s financial aid programs, certain
information is available to prospective and current students, parents and specified other parties.
This information is available in the offices listed:

Rights under Family Educational Rights and
Privacy Act (FERPA)  Registrar’s Office
Types of aid available  Financial Aid Office
Institutional information
  Tuition Rates  Bursar’s Office
  Refund Policies  Bursar’s Office
  Return to Title IV Funds Policy  Bursar’s Office
  Requirements for Withdrawing  Registrar’s Office
  Accreditation Information  Registrar’s Office
  Completion/Graduation Rates  Registrar’s Office
  Campus security reports  Public Safety Office
  Athletic program participation rates &
  financial support data  Athletic Department
  Enrollment Verification  Registrar’s Office
  Student Loan Deferment Information  Registrar’s Office
  Veteran’s Educational Assistance Information  Registrar’s Office
Deadlines

The following deadlines are ‘priority’ deadlines. Students meeting these deadlines should have ample notice of their awards prior to the start of the term. All other applicants will be processed in date order.

- **March 15** Fall semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
- **April 20** Fall semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.
- **August 3** Spring semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
- **September 7** Spring semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.
- **March 5** Summer semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
- **April 5** Summer semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.

Students who miss these deadlines must be prepared to pay their own fees. Students must apply for financial aid every year. Awards are made only for the current year.

Disbursement of Financial Aid

Disbursement of financial aid will be made only if the applicant has completed all requirements for receipt of aid, which includes submission of verification documents, if necessary. Students applying for additional loan funds must make a request for these funds before the Office of Financial Aid will process or disburse such funds. Verification of attendance must be attained for classes before aid is disbursed to the student’s account. A student’s enrollment in sessions that begin later in a semester may cause a delay of disbursement of aid due to verification of attendance in such classes. Aid offered is based on full-time enrollment status unless otherwise indicated, and may be adjusted depending on hours enrolled. For options on how you would like to receive your refund, you may contact the Bursar’s Office.

Students who attend off-campus centers are also subject to verification of attendance. Their excess funds will be processed after verification of attendance is completed.

Work study funds are earned on an hourly basis and are only paid for work performed. Funds from this program are paid bi-weekly.

Disbursement of Financial Aid for Transient Students with Consortium Agreements

Armstrong students attending other institutions as transient students may have their aid eligibility based on enrollment at an eligible host institution. Students are required to complete the necessary documentation with the Registrar’s Office and the Office of Financial Aid. The students’ financial aid will be sent to the host institution unless the student receives direct deposit or provides the Office of Financial Aid with proof of payment. Armstrong will still disburse financial aid according to its own schedule. Consortium agreements do not serve as payment to the host institution, nor can Armstrong defer another institution’s fee payment deadline. Students must have all transcripts from the host institutions returned to Armstrong and posted to their records before any future aid can be disbursed.

Grants

Students are not required to repay these awards if eligible.
Federal Pell Grant. Open to eligible undergraduates based on need and enrollment status. Grant awarded is based on full-time enrollment; if a student enrolls fewer than the number of hours considered full-time, funds will be reduced accordingly. Please visit our website for more information: www.finaid.armstrong.edu.

Teacher Education Assistance for College and Higher Education (TEACH) Grant Program. The College Cost Reduction and Access Act of 2007 created the Teacher Education Assistance for college and Higher Education (TEACH) Grant Program. TEACH provides grants to students who are completing, or plan to complete, coursework needed to begin a career in teaching and agree to teach, for at least four complete academic years, in a high-need field that serves students from low-income families.

Due to the impact of Sequestration, award amounts for any TEACH Grant have been reduced each aid year. TEACH Grants that are first disbursed after October 1, 2014 must be reduced by 7.3 percent from the award amount for which a recipient would otherwise have been eligible. For example, the maximum award of $4,000 is reduced by $292, resulting in a maximum award amount of $3,708. Award amounts for any TEACH Grant that is first disbursed after October 1, 2015 must be reduced by 6.8 percent from the award amount for which a recipient would otherwise have been eligible. For example, the maximum award of $4,000 is reduced by $272, resulting in a maximum award amount of $3,728. To be eligible, students must have the following:

Eligibility Requirements for Undergraduate Students
At Armstrong State University, you must:
- Complete a Free Application for Federal Student Aid (FAFSA)
- Be a US citizen or eligible non-citizen
- Be admitted to the College of Education with junior or senior status in a program of study designated as TEACH Grant-eligible. Eligible programs are:
  - Secondary/Middle Grades Mathematics
  - Secondary/Middle Grades Science
  - *All other programs are not eligible. (Post-baccalaureate Teacher Certification seekers are ineligible for this program.)
- Have at least a 3.25 Cumulative GPA and maintain a cumulative 3.25 GPA each semester you receive the TEACH Grant.
- Have met and will maintain Armstrong State University's College of Education Teacher Education Program requirements with junior or senior status.
- Sign the TEACH Agreement to Serve and Promise to Pay and Complete the TEACH Grant counseling program (http://www.teach-ats.ed.gov).

Teaching Obligation
In exchange for receiving the TEACH Grant, you must agree to serve as a highly-qualified, full-time teacher in a high-need subject area for at least four years at a school serving low-income students. You must complete the four years of teaching within eight years of finishing the program for which you received the TEACH Grant. You incur a four-year teaching obligation for each educational program for which you received TEACH Grant funds. You may work off multiple four-year obligations simultaneously under certain circumstances.

Application Procedures
Please keep the application and all pages (1-5) together as one document. Send original pages of your application and forms to the College of Education, 11935 Abercorn Street, Savannah, GA 31419 or deliver the forms to the College of Education on the 2nd Floor of University Hall, Room 242C.

Incomplete applications and forms cannot be processed and will be returned to the address listed on the application.
A student must file the application on or before the last day of the academic term in order to receive funds for that academic term. The last day of the academic term is the last day of exams.

**Important Reminder**

Failure to complete the teaching obligation, respond to requests for information, or properly document your teaching service will cause the TEACH Grant to be permanently converted to a loan with interest. Once a grant is converted to a loan it cannot be converted back to a grant!

For more information about receiving the TEACH Grant, contact the Armstrong State University Financial Aid Office at 912.344.3266.

*Please note: Legislative changes may affect the availability of some grant programs. Check with the Office of Financial Aid for more information.*

**Employment**

**Federal College Work Study Program.** This federally sponsored program is awarded based on need and availability. Students are awarded a specific dollar amount, and may earn up to this maximum each semester. Funds are earned on an hourly basis and are only paid for work performed. The supervisor to whom the student is assigned will outline the required duties. For more information, contact the Office of Financial Aid.

Students in this program may not exceed sixteen hours of work per week.

**Institutional Work Study Program.** Students are selected for this program by the heads of the various departments and approved by Armstrong’s Office of Human Resources. Students must be qualified for the available positions. For more information contact Human Resources.

Students in this program may not exceed nineteen hours of work per week.

**Scholarships**

Many scholarships awarded on the basis of merit or need (or both) are available. Qualified full-time freshmen applicants are automatically reviewed for academic scholarship. A separate application is not required. For scholarship consideration, incoming fall term freshmen must have a minimum unweighted GPA of 3.0 and a 1000 SAT score (Math and Critical Reading combined) or a 21 ACT composite score. For scholarship consideration, students must complete the admissions application and submit all required materials by December 15, 2015. A scholarship committee makes award decisions during the spring of every year for the upcoming academic year. Academic scholarship application is available online in the student’s PORT account. The application deadline for returning, transfer, and graduate students is May 15.

Scholarships are also awarded by various departments on campus including art, music, and theatre; athletics; biology; chemistry and physics; computer science; history; mathematical sciences; and radiologic sciences. Students may contact these departments for application procedures.

In addition, notices of scholarships requiring special applications or having different deadlines are posted on the financial aid web site finaid.armstrong.edu under the heading "Other Scholarship Opportunities” as they become available throughout the year. Students should check this web site periodically for any new scholarship offerings.

**HOPE – Helping Outstanding Pupils Educationally**

The state of Georgia rewards exemplary academic performance with tuition scholarships at state universities and colleges.
General Qualifications for Entering Freshman. As entering freshmen, students must possess the following:

- legal residency of Georgia;
- 1993 or later graduation from an eligible Georgia high school;
- grade point average of at least a 3.0, as defined by the HOPE program.

HOPE Scholarship will be applied towards tuition charges using the Georgia Student Finance Commission’s determined factor rate. See www.gafutures.org for triggers that could affect the award HOPE provides. The HOPE Scholarship will not cover any student fees, book allowances, nor will HOPE pay for any institutional charges such as lab fees.

HOPE funds may be applied only to tuition. Students may renew their scholarships for the sophomore, junior, and senior years. To do so, students must:

- maintain a 3.0 cumulative grade point average for all course work attempted (not just course work completed);
- reapply for the scholarship by completing the FAFSA or, if applicable, the GSFAPP alternate application by the appropriate deadline;
- make satisfactory academic progress.

Non-traditional Students. If a student graduated from high school before the HOPE program began in 1993, or is not academically eligible for the HOPE scholarship upon high school graduation, he or she may be eligible for the HOPE scholarship after attempting 30, 60, or 90 semester hours of study, provided he or she has a 3.0 cumulative grade point average and is a legal resident of Georgia.

Maintaining HOPE. HOPE eligibility is reviewed at the end of every spring semester (unless you are a part time freshman) and at the end of the semester in which 30, 60, or 90 semester hours have been attempted. “Attempted hours” refers to all hours attempted in a degree program at a postsecondary institution after high school graduation, including classes which you may have dropped or failed as well as learning support classes.

A student may receive the HOPE scholarship until the first of these events:

- the student has earned a baccalaureate degree;
- the student has attempted a total of 127 semester hours at any postsecondary institution;
- the student has seven years from their graduation date from high school to be a first time HOPE recipient (active military service during the seven years shall not count against the seven year period);
- the student that has received the HOPE Scholarship prior to July 1, 2011 may continue to receive the HOPE Scholarship until June 30, 2015, as long as such student continues to meet all other eligibility requirements.

HOPE eligibility is limited by students’ ATTEMPTED and/or PAID hours. For more information on this limitation, please visit www.gacollege411.org. The deadline for HOPE application is ten business days prior to the last published date of the term for which the student is seeking payment.

Regaining HOPE. HOPE is a reward for scholastic achievement and an incentive to continue working hard in school. If, after reaching a checkpoint in a state college or university, students fall below a 3.0 cumulative grade point average, they may continue their following year at their own expense. A student who has lost the HOPE Scholarship may regain it at 30, 60 or 90 attempted hours if they have a 3.0 cumulative grade point average. HOPE may not be regained at the spring semester checkpoint, unless that coincides with a 30, 60 or 90 hour checkpoint. Students may only regain the HOPE Scholarship one time.

Zell Miller Scholarship

General Qualifications for Entering Freshman. As entering freshmen, students must meet all HOPE Scholarship requirements and possess the following:

- legal residency of Georgia;
- 2007 or later graduation from an eligible Georgia high school;
- grade point average of at least a 3.7, as defined by the HOPE program;
- a 1,200 combined critical reading score and math score on a single administration of the SAT or an ACT composite scale score of at least 26; or
- graduate as a valedictorian or salutatorian.
Zell Miller Scholarship will be applied towards tuition charges using the Georgia Student Finance Commission’s determined factor rate. See www.gacollege411.org for triggers that could affect the award provided. The Zell Miller Scholarship will not cover any student fees, book allowances, nor pay for any institutional charges such as lab fees.

Zell Miller funds may be applied only to tuition. Students may renew their scholarships for the sophomore, junior, and senior years. To do so, students must:

- maintain a 3.3 cumulative grade point average for all course work attempted (not just course work completed);
- reapply for the scholarship by completing the FAFSA or, if applicable, the GSFAPP alternate application by the appropriate deadline;
- make satisfactory academic progress.

Current Students. A student that entered an eligible postsecondary institution as a freshman between July 1, 2007 and June 30, 2011 and meets all of the requirements may become a Zell Miller Scholar as a sophomore, junior or senior.

Maintaining Zell Miller Scholarship. Zell Miller Scholarship eligibility is reviewed at the end of every spring semester (unless you are a part time freshman) and at the end of the semester in which 30, 60, or 90 semester hours have been attempted. “Attempted hours” refers to all hours attempted in a degree program at a postsecondary institution after high school graduation, including classes which you may have dropped or failed as well as learning support classes. Zell Miller Scholarship eligibility is limited by students' ATTEMPTED and/or PAID hours. For more information on this limitation, please visit www.gacollege411.org. The deadline for Zell Miller Scholarship application is ten business days prior to the last published date of the term for which the student is seeking payment.

Regaining Zell Miller Scholarship. The Zell Miller Scholarship is a reward for scholastic achievement and an incentive to continue working hard in school. If, after reaching a checkpoint in a state college or university, students fall below a 3.3 cumulative grade point average, but maintain at least a 3.0 grade point average then they may continue as a HOPE Scholar and must meet all HOPE Scholarship requirements. If they fall below a 3.0 then they may continue their following year at their own expense. A Zell Miller Scholar who has lost the Zell Miller Scholarship may regain it at 30, 60 or 90 attempted hours if they have a 3.3 cumulative grade point average. Zell Miller may not be regained at the spring semester checkpoint, unless that coincides with a 30, 60 or 90 hour checkpoint. A student that loses eligibility as a Zell Miller Scholar may regain eligibility only one time if the student re-qualifies at one of the checkpoints.

Please note: The HOPE Scholarship and Zell Miller Scholarship programs are regulated by State law and are subject to change. For information you may visit www.gafutures.org.

Loans

Armstrong participates in the Federal Direct Lending Program as of July 1, 2010. Loan funding comes directly from the Federal Department of Education to students through the Federal Direct Stafford Loan Program and to parents through the Federal Direct PLUS (Parent Loan for Undergraduate Students) Program. Additional information is available at www.studentloans.gov or on our website at www.finaid.armstrong.edu.

Please note: Legislative changes may affect the interest rate and/or other loan terms. Check with the Office of Financial Aid for more information.

Federal Stafford Loans. Stafford loans are available in two forms:

- **Subsidized**: Need-based. The federal government pays interest as long as students maintain at least half-time enrollment.
- **Unsubsidized**: Not need-based. Students are responsible for all interest.

The government limits the amount of money you can borrow under the Federal Stafford loan program.
Stafford Loan Amounts after July 1, 2008 (undergraduate)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Dependent Student</th>
<th>Independent Student</th>
<th>Aggregate Loan Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-29</td>
<td>$3,500</td>
<td>$3,500</td>
<td>$31,000</td>
</tr>
<tr>
<td></td>
<td>(up to $23,000 sub)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-59</td>
<td>$4,500</td>
<td>$4,500</td>
<td>$31,000</td>
</tr>
<tr>
<td></td>
<td>(up to $23,000 sub)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60+</td>
<td>$5,500</td>
<td>$5,500</td>
<td>$31,000</td>
</tr>
<tr>
<td></td>
<td>(up to $23,000 sub)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post-Baccalaureate</td>
<td>$5,500</td>
<td>$5,500</td>
<td>$57,500</td>
</tr>
<tr>
<td></td>
<td>(up to $23,000 sub)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stafford Loan Amounts after July 1, 2008 (graduate)

<table>
<thead>
<tr>
<th>Graduate Level</th>
<th>Initial Unsubsidized</th>
<th>Unsubsidized Only</th>
<th>Total Annual Limit</th>
<th>Additional Aggregate Loan Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provisional/Limited</td>
<td>$5,500</td>
<td>$7,000</td>
<td>$12,500</td>
<td>$57,500</td>
</tr>
<tr>
<td>Regular</td>
<td>$8,500</td>
<td>$12,000</td>
<td>$20,500</td>
<td>$138,500</td>
</tr>
</tbody>
</table>

Interest rates are fixed based on current Federal Stafford Loan rates determined by the Federal Department of Education. The Federal Department of Education is required by law to notify students of changes in the interest rate. Origination and processing fees are deducted from the loan amount borrowed.

The cumulative borrowing limit for both undergraduate and graduate students is $138,500.00. Armstrong does not automatically offer additional unsubsidized loans in your award. All loans must be certified before the end date of the term the student wishes to borrow.

**Note:** Students who have earned 60 or more credit hours must have declared majors and be accepted into a baccalaureate degree program.

Note: Graduate students not regularly admitted into a graduate program or not enrolled for graduate level course work do not qualify for graduate level funding. Students admitted on a limited/provisional basis only qualify for aid for one calendar year.
Students enrolling in Teacher Certification programs must have their program of study verified before funds disburse each term. Some Armstrong certificate programs are not eligible for assistance at all.

**Hour Requirements:** Undergraduate students must be enrolled in at least 6 hours to be considered half-time. Graduate students are advised to refer to the 2015-2016 Graduate Catalog or consult Registrar for information regarding half-time status.

**First Time Borrowers.** Students MUST complete entrance counseling and a Master Promissory Note (MPN). Please refer to the Financial Aid website for more information.

**Federal Parent PLUS Loans.** PLUS loans are available to parents of dependent, undergraduate students for amounts not to exceed the students’ costs of attendance less financial aid. Information is available on the financial aid website.

**PLUS Loans for Graduate or Professional Students.** Graduate or professional students are now eligible to borrow under the PLUS Loan Program up to their cost of attendance minus other estimated financial assistance.

The deadline to request loan funds is ten business days prior to the last published date of term for which the student is seeking payment.

**Veterans Benefits**

Veterans Affairs educational benefits may be used for study at Armstrong. Contact the Veterans Affairs representative in the Registrar’s office for specific instructions on application procedures.

**Standards of Academic Progress**

It is each individual student’s responsibility to read and adhere to the Standards of Academic Progress Policy. The policy is in place because the Higher Education Act of 1965 was amended with **Program Integrity** regulations passed on October 29, 2010 that mandates institutions of higher education to establish a standard of satisfactory academic progress for a student who receives any financial aid. A student’s entire academic history at all schools attended including transferrable hours is reviewed at the end of the first semester and each semester thereafter whether or not Title IV funded aid was received to ensure compliance with the policy.

What this means to you is that in order to remain eligible to receive financial aid you must meet the standards specified for acceptable academic performance and satisfactory progress toward the completion of your program of study. The progress standards are established within the framework of federal regulations and specifically for the purpose of determining the eligibility of students to receive financial aid under Title IV and State aid programs. These programs include, but are not limited to, Federal Pell Grant, Federal Supplemental Education Opportunity Grant (SEOG), Federal Work-Study, Georgia’s HOPE and Zell Miller Scholarship and Federal Direct Loan Programs.

The University will complete a review of compliance with this policy for all students at the end of the first semester and each semester thereafter.

**SAP Status**

A student’s SAP status will be evaluated at the completion of each semester of enrollment. At each evaluation period, one of the following SAP statuses will be assigned:

**Satisfactory**—Student is meeting the requirements. Student is eligible to continue receiving financial aid.

**Warning**—Student is not meeting either the Academic Performance or Progress Toward Degree Completion requirements (or both). Student is eligible to continue receiving financial aid for one semester only. Students are notified by email when they are placed in a WARNING status and no appeal is necessary to receive aid for this status. Students on financial aid WARNING will have their progress checked at the end of each semester to determine compliance. **Students must meet the SAP requirements at the end of the term of enrollment or lose financial aid eligibility.**
Students may not have two consecutive Warning terms. If student has met the **Credit Hour Limit** then they are not eligible for a WARNING status.

**Suspension**—Student is not meeting either the **Academic Performance or Progress Toward Degree Completion** requirements (or both) after a WARNING semester. Student is not eligible to continue receiving financial aid until the student is meeting the required minimum standards. If student has met the **Credit Hour Limit** for their degree program then the student is not eligible to continue receiving financial aid. Students on suspension may submit an appeal based on mitigating circumstances.

**Probation**—Student has submitted a SAP appeal and the Armstrong SAP Committee has approved the appeal. Student is eligible to continue receiving financial aid for **one semester only**. Students on financial aid PROBATION will have their progress checked at the end of each semester to determine compliance.

In some cases, a student must complete the requirements of an Academic Plan developed with their Academic Advisor, which will be monitored by the Office of Financial Aid. Student is eligible to continue receiving financial aid based on the performance and terms of the Academic Plan. The student’s continued eligibility beyond the PROBATION semester will be determined at the conclusion of each semester. Failure to meet any part of the Academic Plan will result in the appeal being rescinded and the immediate loss of financial aid eligibility.

**Standards of Academic Progress Requirements:**

1. **Academic Performance:**
   - Undergraduate students who have attempted
     - 0-20 semester hours must have a 1.5 cumulative grade point average (GPA),
     - 21-40 semester hours must have a 1.7 cumulative grade point average (GPA),
     - 41-59 semester hours must have a 1.9 cumulative grade point average (GPA),
     - 60 or more semester hours must have a 2.0 cumulative grade point average (GPA).

   The cumulative GPA is derived from all hours accepted by and earned at Armstrong, including transfer work from other institutions whether or not the hours apply toward your degree.

2. **Progress Toward Degree Completion:**
   - All students must make significant progress toward completion of degree requirement in order to receive aid. A mandated minimum completion rate of 67% is the standard for acceptable progress toward degree completion. When computing this percentage the numbers are not rounded up or down. The formula for this calculation is as follows:

   \[
   \text{Cumulative number of hours successfully earned} / \text{cumulative hours attempted} = \% \text{ competed}
   \]

   Grades of W, WF, WH, V (audit), F, U, I and NR are not considered successful course completion. In addition, all attempts of repeated courses and non-credit coursework are included in the cumulative attempted number.

3. **Credit Hour Limit:**
   - A maximum number of attempted hours in which to complete a degree is established. Students who exceed this limit will lose their eligibility to receive financial aid. That maximum number of attempted hours is based on 150% of the average degree program requirements.
     - Associate programs must be completed by the 90th attempted semester hour
     - Undergraduate programs must be completed by the 186th attempted semester hour
     - Post-Baccalaureate programs must be completed by the 90th attempted semester hour

   Learning support classes will be counted as attempted hours for these purposes.

   Exceptions for second degree seekers will be considered upon receipt of a written Standards of Academic Progress Appeal Form.
Appeal for Reinstatement of Aid

If your academic progress was reviewed at the end of the semester and you lost your eligibility for financial aid, you can regain financial aid in two possible ways;

1) By continuing to work toward a degree without financial aid, successfully accomplishing all the Standard of Academic Progress requirements and providing written notice of that by filing an appeals form with the Office of Financial Aid
2) By filing an appeal of the loss of eligibility for financial aid that identifies mitigating circumstances.

Mitigating circumstances are defined as unanticipated and unavoidable events or situations beyond a student’s control that prevented him or her from successfully completing courses or meeting the terms of a prior appeal. Examples of mitigating circumstances could include (but are not limited to) serious accident or illness of the student, serious illness or death of immediate family member (parents, grandparents, siblings, spouse, children), unexpected financial obligations, etc. Examples of unacceptable mitigating circumstances include (but are not limited to) withdrawal to avoid a failing grade, too many courses attempted, limited number of tests/assignments, disagreement with instructor, voluntary change in work hours, and incarceration.

If you choose to file an appeal you must do so through the formal Appeal Form. In your appeal you need to clearly explain:
1. Why you failed to meet the progress requirements
2. What corrective measures you have undertaken to improve your future performance.
3. Provide written and signed documentation of any mitigating circumstances that impacted your performance.
4. Students who are not meeting requirements, due to being over max time frame must submit a letter from their advisor which includes:
   a. Number of attempted hours that go toward current degree
   b. Hours remaining in degree program
   c. Expected term of graduation

A Standards of Academic Progress Committee will review your appeal and supporting documentation and either approve or deny your appeal. Approvals result in the following conditions.
1. Approved for one semester
2. Academic Plan
3. Reinstatement

Approved for one semester. Financial aid granted for one semester if you are deemed able to achieve the progress standard in one semester.

Academic Plan. On a case by case basis, the Committee may offer an academic plan to students exhibiting documentable, mitigating circumstance. If it is mathematically possible for a student to regain SAP, then the student will be given and Academic Plan. Students will be reviewed for compliance at the end of each semester. If the student fails to adhere to the Academic Plan, then the student will be denied financial aid until such time as the student is back in compliance with the SAP standards.

Reinstatement. Student has regained compliance with SAP.

Denial. Automatic denials are given to students for whom it is mathematically impossible for them to gain compliance with SAP.
Approval of all appeals is determined on a case-by-case basis and is not guaranteed. You will be notified in writing of the Committee’s decision through a document called the Standards of Academic Progress Agreement which you must sign and return to the Office of Financial Aid.

You will remain ineligible for financial aid until fully compliant with the Standards of Academic Progress Policy.

Forms for a Standards of Academic Progress Appeal are available at the Office of Financial Aid website at www.finaid.armstrong.edu under Financial Aid Forms.

**Terms and Conditions of Award**

It is especially important that you understand the conditions of your awards and your responsibility as a financial aid recipient. Our policies are explained fully in the Armstrong Catalog. You are required to take course work that applies toward your declared degree objective at Armstrong. All aid will be calculated based on your degree program. Be sure you read and understand the conditions of your award.

If you have any questions, please feel free to contact our office at 912-344-3266.
Student Services and Organizations

As part of its educational mission, Armstrong State University strives for the total development of students. This growth process is enhanced by providing opportunities for social, emotional, cultural, physical, and spiritual development, in addition to intellectual growth. The Division of Student Affairs is committed to providing programs and services in an educational environment which will help students of all ages to adjust to university life and achieve their full potential. In particular, freshmen and transfer students are encouraged to read the section on orientation programs under Student Services.

University Housing and Dining Services

All first-year students are required to live on campus in Windward Commons, a suite-style residence hall designed specifically for First Years, featuring wireless Internet, common social areas, two full kitchens, two laundry facilities, music practice rooms and two classrooms – all designed to make the first-year campus experience the best it can be.

The facility provides small community groupings and living-learning experiences because higher education research shows that students living on campus tend to earn better grades, and tend to graduate at a higher rate and finish college sooner than their non-resident counterparts. Living on campus provides a new student with close proximity to services and programs and significantly helps with success in the first year. For these reasons, Armstrong State University requires incoming First Years to live on-campus. However, housing is not guaranteed. It is based on a first-come, first-served basis.

First Year Live-on and Dining Program Requirement

If you are considering attending Armstrong State University, please be aware of the live-on and dining program requirement. This policy applies to undergraduate students entering Armstrong State University for the first time, with the following exceptions: married students; a custodial parent of dependent children; students who become 21 years of age prior to the first day of the entering semester; students enrolled only in on-line classes; and students who reside with a parent or guardian in Chatham, Bryan, Effingham or Liberty counties. Please see the more detailed information below.

A. First year undergraduates (less than 30 credit hours) enrolled as full-time students, as defined in the Armstrong Undergraduate Catalog, are required to live in University Housing. Students transferring to Armstrong with fewer than 30 completed hours of college credit accepted by the University are also required to live in University Housing. In general, first year undergraduates will be housed in Windward Commons. First year undergraduate transfer students may be placed in one of the apartment communities should Windward Commons be filled at the time of application.

Note: Credits earned through CLEP, AP, or hours earned through concurrent enrollment or similar opportunities may not be part of the 30 hours for required living in University Housing.

B. Exemptions to First Year Live-On Requirement: Exemptions to the First Year Live-On Requirement may be requested for the following reasons and must be supported by appropriate documentation:
   • Students who live in the Savannah metro area (Bryan, Chatham, Effingham and Liberty Counties)
   • Married (must provide copy of marriage license)
   • Custodial parent of a dependent child (must provide copy of birth certificate and custodial decree)
• 21 years of age or older prior to the first day of the semester entering (must provide birth certificate)
• Completed 30 or more hours of college credit accepted by Armstrong
• Enrolled only in on-line courses
• Enrolled only in classes at the Liberty Center
• Active military (must provide copy of orders)

Housing and Residence Life also provides on-campus student-exclusive communities that are apartment accommodations designed and managed to support upperclass and graduate students. The communities of Compass Point, University Crossings, and University Terrace offer apartments with the following amenities:
• Kitchens with full-size appliances.
• Furnished living rooms and private bedrooms.
• Basic cable television, local telephone service, Internet connection, water, sewer, electricity, and parking decal are included.
• Located close to classes, Student Recreation Center, Lane Library and Savannah shops and restaurants.

Access to classes, campus recreational facilities, meeting spaces, co-curricular activities and events make the communities the choice for undergraduate and graduate students.

University food service is provided by Sodexo. Students who live in University Housing are required to purchase a meal plan.

For more information, please visit the website at www.housing.armstrong.edu.

Student Services

Armstrong Student Union. The Student Union is the “living room” of the campus. It offers dining, bookstore, card services, convenience store, meeting and ballroom space, theatre, lounges, and hosts the SGA, Campus Union Board, GSCC and Student Affairs Offices.

Academic Orientation and Advisement. Advisors in the academic orientation and advisement office are available for student consultations. They provide advisement regarding core curricula, transfer course work, transient studies, majors, and career choices. Students may also access a variety of resources in print, online, and by using a computer-based library of educational and occupational topics. The office of academic orientation and advisement also administers the joint enrichment program for accelerated high school students, and the Armstrong Student Success courses. The office is located on the second floor of Solms Hall.

Alcohol and Drug Education. The University Counseling Center provides campus alcohol and drug prevention education, as well as services to students with individual concerns about alcohol/drug-related issues including personal assessments, counseling, and/or referral to community treatment programs. Assistance is also offered for other personal issues. They coordinate support group meetings on campus and collaborate with local prevention and treatment facilities. Training is provided for residence hall professional staff, student resident advisors and orientation leaders. Classroom instruction is provided upon request of instructors. Resource materials are available.

College Access Mentoring Information and Outreach (CAMINO). College Access Mentoring Information and Outreach (CAMINO) is a community wide partnership of individuals and organizations that focus on easing the transition from high school to college, and promoting college completion for all Hispanic/Latino youth and adults. CAMINO’s goal is to increase the percentage of Latino students matriculating in the three public institutions of higher education in Savannah, Georgia from the current average of 3.2% to 6.4% by 2015. CAMINO currently serves students and parents in the following four components: CAMINO College Prep- Pre-college pipeline program that targets high school students in 9-12 grades with a goal of increasing the number of Latinos that enroll in a post-secondary degree or certificate program, CAMINO Padre- Designed to help parents of first-generation students become better informed and more active participants in their child’s college preparation and planning. The effort is
undertaken by all three-postsecondary institutional partners: Armstrong State University, Savannah State University, and Savannah Technical College, CAMINO ABC- A marketing, recruitment, and admissions counseling effort targeting non-traditional Latinos with “some college, but no degree” in the 3 county-region. CAMINO is located in the Memorial College Center.

**Campus Computing Labs.** General purpose student computing labs are located in Solms Hall 104, University Hall 112, and Science Hall 129. Each lab provides PC workstations with Internet access, printing capabilities, and a general offering of software applications. Please visit [http://www.cis.armstrong.edu/helpdesk/students/labs.html](http://www.cis.armstrong.edu/helpdesk/students/labs.html) for additional information.

**Career Services.** Located on the first floor of the Memorial College Center, Career Services provides assistance with all aspects of career development and the job search process. Students in the early stages of career development can obtain assistance in such areas as selecting a major, gathering occupational information, investigating career paths through individualized career advisement and computerized career guidance techniques. Part-time and full-time employment opportunities, and internship opportunities, are listed on the website. Students closer to graduation may take advantage of one-on-one assistance or workshops on topics such as resume writing, interviewing skills, business and social etiquette, dressing for success, and applying to graduate school. Mock interviews are also available to help prepare students and alumni for the job search process. Local, regional, and national job listings and referrals are available to students and alumni. Career fairs are held each semester to assist students in finding part- and full-time jobs and internships. Check out our website at [www.armstrong.edu/Departments/career_services](http://www.armstrong.edu/Departments/career_services) for a wealth of information to assist you with your professional development.

**College of Science and Technology Tutorial Center.** Tutorial services are provided on a first-come, first-served basis to a large number of students enrolled in learning support math or college algebra courses. The center is staffed 6-8 hours a day by student tutors and by faculty mentors. The lab is located in Science Center 132-134.

**Dining Services.** Campus dining, convenience store, and coffee shop are located in the Armstrong Student Union and offer cash service as well as meal plans. A daily hot line, salad bar, deli line, grill, and pizza stand are open when classes are in session. Armstrong's newest dining facility is located in the MCC Food Court. You'll find a Quiznos that features delicious subs, soups, salads & flat bread sandwiches. Included in the Food Court is also the World of Wings, which features award winning chicken wings, chicken tenders, wraps, salads, and delectable sides with a Cajun flare!

**Disability Services.** Disability Services provides reasonable accommodations to students with disabilities at no charge. It is the student's responsibility to self-identify to Disability Services and to provide complete, up to date documentation regarding the disability. Students with a visual impairment, hearing impairment, medical disability, mobility impairment, learning disability, acquired brain injury, pervasive developmental disorders (P.D.D.), Attention-Deficit/Hyperactivity Disorder (A.D.D.), or psychological disorder that substantially interferes with functioning may be eligible. Documentation regarding the diagnosis of Learning Disability, P.D.D., A.D.D., psychological disorder, and acquired brain injury must be reviewed and approved by the Regents' Center for Learning Disorders. Students with disabilities must meet all university admission requirements and academic standards. Accommodations are determined on an individual basis and may include: extended time on tests, low distraction test room, assistance finding volunteer note takers, books on tape or CD, enlargement of printed materials, and use of adaptive equipment. Obtaining documentation of the disability and arranging accommodations takes time, so students are urged to contact the ODS as soon as they are accepted for admission. Once a student is approved to receive accommodations, Advocacy Letters outlining approved accommodations are provided to the student to share with professors each semester. Adaptive software and equipment is available on campus. Documentation requirements for various disabilities and Disability Services policies and procedures are also available from ODS.

**Hispanic Outreach & Leadership (HOLA).** HOLA assists Latino students in succeeding by providing enrollment services, academic support, and leadership opportunities. The office also coordinates Latino Heritage Month and other cultural activities for the University and the greater community. HOLA also leads two grant initiatives, The Goizueta Foundation Scholars Fund and the Lumina Latino Student Success grant, or CAMINO program. The College Access Mentoring...
Information and Outreach program is the latest addition to a successful Hispanic/Latino program initiative at the university that assist students and families of first generation college backgrounds. HOLA is located in the Memorial College Center.

**ID Cards.** Armstrong ID cards are produced by the Pirate Card Office in Room D245 of the Student Union Monday through Thursday when classes are in session. For specific hours of operation, call 344-3292.

**International Education.** Students from other countries are encouraged to contact the International Education Office for information and materials that will assist with the transition to American higher education. Students from this country interested in opportunities to study abroad may also contact that office, located in Gamble Hall 110.

**Lane Library.** The library, through its collections and services, supports the academic programs of the university and the scholarly information needs of Armstrong students, faculty and staff. Named for Mills B. Lane, prominent Savannah-Atlanta Banker, philanthropist, and an early patron of the university, Lane Library was built in 1966 and substantially enlarged in 1975. The building was completely renovated in 2005-2006. The space devoted to library services grew by 25% with the 2013 opening of the Learning Commons in an adjacent renovated building. The Learning Commons features group study rooms, Macs and PCs, Wi-Fi access, and a variety of furniture ideal for group and individual study.

The library collections include more than 215,000 volumes, 500 journal and magazine subscriptions, over 2,900 online journals, 80,000 electronic books, and approximately 7,200 audiovisual titles, including compact discs, videocassettes, DVD’s and educational software. Special collections include the University Archives and the Florence Powell Minis Collection, which contains published materials on local history and culture and first editions by Conrad Aiken and other Savannah writers.

In addition, through the state-sponsored GALILEO system and through locally selected resources, library users have online access to over 200 bibliographic and full-text databases of books and journal articles. Books from other University System of Georgia Libraries can be requested free-of-charge through the GIL Express service. Most journal articles and books that are not otherwise available can be obtained from other libraries in the United States via an interlibrary loan service.

To guide students through the maze of print and electronic sources, reference librarians provide a number of services, including: instruction sessions for classes on the selection, evaluation, and use of course-related library and information resources; individualized assistance at the reference desk by a professional librarian during most hours of library operation; e-mail, IM, and text reference service (Ask A Librarian) and telephone references service; research consultations, scheduled in advance, for students who desire extended, in-depth assistance with their research.

Off-campus library services for Armstrong programs are supported online library services through Lane Library and by local libraries. Off-campus students have access to online library resources via the library webpage (http://library.armstrong.edu) using their Armstrong Port login or the GALILEO password. From the webpage, students can view listings of the library’s books and media through the links to GIL and GIL Express; bibliographic and full-text databases are available to off-campus, currently-enrolled students through the links in the library Subject Guides. Off-campus students may also request materials that are not available in full text online by using the library’s interlibrary loan service.

**Multicultural Affairs.** The Purpose of the Office of Multicultural Affairs (OMA) is to provide support services to underrepresented students, and to assist in the facilitation of their University Engagement. OMA provides services in the areas of Academic, Professional, and Social Development.

In addition to programs and services (such as Safe Space and the African-American Male Initiative), we prioritize these goals through interpersonal one-on-one interaction. OMA symbolizes a safe haven for students and an area on campus that students can readily identify with and call their own.

Our goal is to serve as an advocate for, and to assist in the navigation of our students in exploring not only their own culture, but those of other Armstrong students within their respective living environments as well as the surrounding Savannah area. OMA is located on the second floor of the Memorial College Center.
Parking. All vehicles driven on campus must be registered and display a university parking decal. Decals may be purchased from University Police (located in building #16). All students, faculty, and staff are responsible for complying with Armstrong's parking regulations. A copy of the regulations may be picked up at the University Police office or can be accessed on the University Police website.

Student Health Center. The Student Health Center provides quality care in times of need for physicals, illness, immunizations, sports and annual physical exams, testing for HIV, sexually transmitted illnesses (STIs), pregnancy, and tuberculosis, contraception management, and for minor injury. Medical and laboratory services are offered to currently matriculating students at a minimum cost. The office is supervised by a licensed board-certified nurse practitioner under the direction of a physician. Students may schedule an appointment Monday through Friday. The Student Health Center requires payment at time of service and does not accept insurance. An itemized bill will be given to the student in order that they may request reimbursement directly from their insurance company.

Testing. The following state- and nation-wide testing programs are administered by the coordinator for Testing Services: ACT Residual Exam, Certified Health Education Specialist Examination (CHES), College-Level Examination Program (CLEP), DANTES Subject Standardized Tests, Georgia Government Exam, GRE Subject tests, Independent and Distance Learning Examinations, Health Occupation Basic Entrance Test (HOBET), Measure of Academic Proficiency and Progress (MAPP), Major Field Tests, Miller Analogies Test (MAT), and the SAT On-Campus. For information about these and other testing programs, please contact Testing Services, located in the Memorial College Center, 2nd Floor.

University Counseling Center. Services are offered to currently enrolled students at no cost by licensed mental health and substance abuse counselors. Whether setting goals or resolving personal issues, students can be assured that discussions held with professional counselors are strictly confidential. Students may schedule individual appointments or sign up for group workshops in the University Counseling Center on the first floor of Compass Point.

Veterans. The veterans affairs representative is helpful in advising about certification procedures and services available to veterans.

Writing Center. Students in all disciplines may come to the writing center in Gamble Hall for help with their writing. Tutors in the writing center offer individual instruction in basic writing skills and provide guidance in the preparation of essays, reports, and research papers. Writing center staff members not only assist students in core composition courses, but are also available to work with faculty to improve writing across the curriculum. The center is administered by the Department of Languages, Literature, and Philosophy.

University Bookstore. Armstrong's bookstore, located in the Armstrong Student Union, provides students with textbooks, school supplies, university apparel, gifts, and laboratory and studio supplies. Extended and weekend hours are posted.

Student Activities and Organizations

Cultural Opportunities. Nationally known speakers, contemporary concerts, dances, popular films, exhibits, and performances by outstanding classical and modern artists from around the world complement students' general education. These programs are selected and coordinated by the Campus Union Board. Student dramatic, choral, and instrumental groups, under professional direction, have established distinguished traditions. On-campus offerings broaden knowledge and interest in a non-classroom setting. The thousand-seat Fine Arts Auditorium often hosts performances, area arts groups, and out-of-town troupes such as the National Shakespeare Company.

Intercollegiate Athletics. Armstrong is affiliated with the National Collegiate Athletic Association (NCAA) Division II. Athletic scholarships are available to support student-athletes who participate in the intercollegiate program. The men’s athletic teams consist of basketball, baseball, golf, tennis, and cross country. Women’s teams include basketball, softball, soccer, tennis, golf and volleyball. Armstrong State University is a charter member of the Peach Belt Conference, an 12-school conference consisting of schools from Georgia, North Carolina and South Carolina, Armstrong State University, Augusta State University, Clayton State University, Columbus State
University, Francis Marion University, Georgia College & State University, Georgia Southwestern State University, Lander University, North Georgia College & State University, UNC Pembroke, USC Aiken, and the University of Montevallo.

**Recreation and Wellness.** The university places high priority on its recreational offerings and provides a wide variety of activities and programming, including intramurals, club sports, informal recreation fitness classes, and wellness education. The Student Recreation Center includes an exercise room for group fitness, 2 basketball/volleyball courts, and a fitness center with a wide variety of equipment including cardio, machine weights, and free weights. Other indoor on-campus facilities include a pool and a track. Outdoor facilities include tennis courts and intramural fields.

**Orientation Programs.** Designed to promote the academic and social adjustment of new and transfer students, Navigate Armstrong orientation sessions provide new students with the information, services and support essential to a successful transition into the Armstrong community. Attendance at Orientation is required for all incoming new First Year students and optional for new transfer students. Participants in the Navigate Armstrong sessions receive individual attention from student leaders and staff as they acquire first hand experience with academic advising, registration, campus facilities, student activities, and university policies and procedures. The Navigate Armstrong program is a cooperative effort of student leaders and university staff. Competitive selection of student leaders occurs annually during Fall semester. Inquiries concerning Navigate Armstrong should be emailed to navigate@armstrong.edu. New students can identify and sign-up for freshman and transfer orientation sessions through the Armstrong website.

**Student Clubs and Organizations.** Armstrong State University students have numerous opportunities to develop leadership skills, broaden their social and professional backgrounds, and make significant contributions to the university and the community. Clubs and organizations reflect the natural variety of interests found in a diverse student body:

- **Faith Based.** Baptist Collegiate Ministry, Chi Alpha, Eklesia Campus Ministries, Episcopal Campus Ministry, Generation of Faith Ministries, Hillel, The Navs, One Life Campus Outreach Ministries, Reformed University Fellowship, Sigma Alpha Omega and Wesley Fellowship.
- **Greek.** Alpha Kappa Alpha, Alpha Sigma Tau, Delta Sigma Theta, Sigma Iota Alpha, Sigma Sigma Sigma, Zeta Phi Beta, Phi Mu, Kappa Sigma, Pi Kappa Alpha, Phi Iota Alpha, Phi Mu Alpha Sinfonia, Omega Psi Phi, and Lambda Theta Phi.
- **Professional,** Astronomy Club, Biology Club, American Chemical Society, Association for Computing Machinery, Student Engineering Society, French Club (Cercle Francais), Georgia Armstrong Middle Education Students, Georgia Association of Educators, German Club (Stammtisch), Health Sciences Student Association, History Club, Institute for Healthcare Improvement, Math Club (Student Chapter – Mathematical Association of America), medical Technologies Society, Music Educators National Conference, National Student Speech, Language and Hearing Association, Armstrong Association of Nursing Students, Physical Therapy Club, AASU Physics Club and Society of Physics Students, Political Science Club, Pre-Med Association, Pre-Pharmacy, Radiological Sciences Student Association, Respiratory Therapy Club, Rho-Tau (Pre-Physical Therapy Organization, Student Council for Exceptional Children, and the E.B. Twitmeyer Society (Psychology Club).
- **Special Interest.** A.B.L.E. (Abilities Beyond Limitations Through Education, African Caribbean Student Organization, Amnesty International, Anthropology Club, Autism Speaks U, Collaboration Models, College Democrats, College Libertarians, College Republicans, Colleges Against Cancer, Collegiate 100, Design Matters, Epsilon Sigma Alpha, Feminists United, Filipino Student Association, Gay-Straight Alliance, Gospel Choir, HOLA (Hispanic Outreach and Leadership at Armstrong, International student Association, Japanese Pop Culture Appreciation Club, NAACP, the Philosophical Debate Group, Science Fiction/ Fantasy Club, Student National Association For Teachers of Singing, Student Veterans of America.
- **Activity Groups.** Campus Union Board, College Band, College Chorus, Honors Student Organization, Masquers, Nick Mamalakis Emerging leaders, Student Government Association
Honor Societies. Honor societies recognize leadership and encourage superior scholarship in many fields of study. Campus chapters include: Alpha Eta (Allied Health); Beta Beta Beta (Biology); Delta Omega (Public Health); Kappa Delta Pi; Lambda Nu (Radiologic and Imaging Sciences); Phi Alpha Theta (History); Pi Gamma Mu (Social Science); Pi Mu Epsilon (Mathematics); Sigma Tau Delta (English); Upsilon Pi Epsilon (Computer Science); Joel E. Hildebrand Chemistry Society; Phi Kappa Phi (Scholarship); Omicron Delta Kappa (Leadership).


Inquiries concerning any campus club or organization should be addressed to the Office of Student Life.

Student Government Association. The Student Government Association is dedicated to serving the student body by encouraging and advocating for engagement, providing opportunities for personal growth, and promoting campus well-being. All students are automatically members of the SGA and entitled to vote in SGA elections. Qualified students may seek SGA leadership positions by running for office during the spring elections.

Student Publications. Students develop skills in creative writing, editing, reporting, photography, and design by involvement with the Inkwell (newspaper) and Calliope (literary magazine), both produced by students under the supervision of approved university advisors. All are financed primarily by the student activity fund.
Academic Policies and Programs

Academic Advisement

Armstrong State University considers academic advisement to be an essential component of the educational experience. Academic advisors assist students in several areas of their university experience including choosing a major, exploring career options, and selecting courses every semester. While students are ultimately responsible for their own choices, for selection of their academic program, and for meeting university deadlines, Armstrong does require each student to meet with an advisor at least once every semester. The Associate Provost for Student Engagement and Success gives overall direction to the advisement program, with appropriate deans and department heads coordinating advisement in their departments. Academic advisement is available as follows:

Office of Academic Orientation and Advisement - 212 Solms Hall.

- All undeclared majors
- Non-degree-seeking students returning to school after a number of years away
- Dual Enrollment
- All students initially enrolled in Learning Support courses
- All degree-seeking students in the 62 Plus program.

College Advisors and Departmental Offices

- All students who have declared majors or are enrolled in pre-professional programs should obtain advisement in their college or departments.
- Transfer students should visit their college advising office or the Department Head of their major.
- Learning support students with a declared major in the College should obtain advisement from their College Advising Office.

Academic Renewal for Returning Students

Undergraduate students who are transferring to Armstrong or returning to Armstrong after at least a five-year absence may be eligible for Academic Renewal. Eligible students are encouraged to apply for Academic Renewal status if reenrollment or transfer to Armstrong has been denied. Applications for Academic Renewal at the point of admission will be provided as part of the admissions appeal process. Contact the Admissions Office if you have questions about Academic Renewal upon Admission. Students admitted upon renewal may be considered limited or provisional admission and may be limited in the number and types of hours they may take in their first semester.

All other eligible students, who do not request Academic Renewal status at that time, must do so within one calendar year of enrollment or re-enrollment. Students interested in the academic renewal program may contact the Office of Academic Orientation and Advisement at 912.344.2570 to obtain an application. Granting of Academic Renewal after enrollment is not automatic or guaranteed. Students must demonstrate a renewed commitment to higher education. The final decision on Academic Renewal rests with the Office of the Provost.

Academic Renewal signals the initiation of a new grade point average to be used for determining academic standing and eligibility for graduation. This provision allows degree-seeking students who earlier experienced academic difficulty to make a fresh start and have an opportunity to earn a degree. If awarded, all previously attempted coursework continues to be recorded on the student’s official transcript. Academic credit for previously completed coursework, including transfer coursework, will be retained only for courses in which a grade of A, B or C has been earned. Such credit is considered in the same context courses with grades of “S. Courses with grades of D or F must be repeated at Armstrong if they are required in the student’s degree program. Applicability of retained credit to degree requirements will be determined by the degree requirements in effect at the time Academic Renewal status is conferred.
Eligibility for Academic Renewal, returning Armstrong students only:
- Must have had a continuous period of absence from Armstrong of at least five years
- Must demonstrate a renewed commitment to higher education
- Must apply for Academic Renewal within one calendar year of re-enrollment at Armstrong

Eligibility for Academic Renewal, student who have never attended Armstrong (transfers):
- Must have attended a regionally accredited institution of higher education at least five years prior to enrollment at Armstrong
- Must demonstrate a renewed commitment to higher education
- Must apply for Academic Renewal within one calendar year of enrollment at Armstrong.

To earn a degree from Armstrong, a student must complete 25% of credit applicable to their degree, including 50% of upper division coursework in the major field of study at Armstrong, after receiving academic renewal status. Academic Renewal GPA is used only for graduation purposes and is not used for the calculation of honors at graduation.

Transfer credit for any coursework taken during the period of absence will be awarded according to the Armstrong transfer evaluation policies in place at the time of the enrollment or Re-enrollment at Armstrong.

The granting of Academic Renewal does not supersede financial aid policies regarding Satisfactory Academic Progress or the admissions requirements of programs, which require a specific minimum grade point average based upon all coursework. Armstrong honors the academic renewal status granted by other USG institutions. A student can be granted Academic Renewal Status only one time in the University System of Georgia, regardless of the number of institutions attended.

Academic Standing Policy*

*Note: Effective Fall 2016, the Academic Standards policy for incoming students will change.

The university recognizes four categories of academic standing: good standing, academic warning, academic probation, and academic suspension.

**Good Standing:** Students are considered to be in good standing if they have maintained or exceeded the required Overall GPA for the hours attempted as noted below.

<table>
<thead>
<tr>
<th>Semester Hours Attempted (at Armstrong and elsewhere)</th>
<th>Required Overall GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20 Attempted Hours</td>
<td>1.5</td>
</tr>
<tr>
<td>21-40 Attempted Hours</td>
<td>1.7</td>
</tr>
<tr>
<td>41-60 Attempted Hours</td>
<td>1.9</td>
</tr>
<tr>
<td>Over 60 Attempted Hours</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Academic Warning:** Students who fall below the required GPA for the hours attempted for the first time are placed on academic warning, but remain in good academic standing with the university.

**Academic Probation:** Students who fall below the required GPA for the hours attempted for the second time are placed on academic probation.

Students on academic probation who do not achieve the required overall GPA, but earn a 2.0 GPA for the probationary semester, will remain on academic probation for the next semester of attendance.

**Academic Suspension:** Students on academic probation who neither achieve the required overall GPA nor earn at least a 2.0 GPA during the probationary semester will be placed on academic suspension from the university.
Students suspended for the first time must sit out the next full fifteen-week semester.

Students suspended for the second time must sit out the next two full fifteen-week semesters.

A third academic suspension is final, with the exception that after one year’s absence, students may be considered for readmission. Students placed on final suspension who are permitted to re-enroll and fail to achieve the required GPA will be permanently excluded from the university.

Students on suspension may not return in Summer or Flex Term sessions. Students wishing to enroll during the suspension period must submit an appeal to the Office of Admissions, to be decided upon by the Armstrong Academic Appeals Committee. The first semester of eligible enrollment following a suspension period is the next full fifteen-week semester (Fall or Spring). Students who wish to return after the required absence must notify the Registrar's Office.

A student admitted/readmitted on appeal is on academic probation and must achieve a minimum of 2.0 for the probationary semester. Failure to do so will result in academic suspension.

**Learning Support Suspension Policy.** Students enrolled in MATH 0987 or MATH 0989 must complete those requirements in 2 attempts or they will be suspended from Armstrong for one-calendar year. These attempts must be during the students first two semesters at Armstrong. During suspension, students may attend an accredited Technical College System of Georgia School to pass their learning support requirements (Core A Math). W and WM grades do not count toward attempts.

Students who have been away from Armstrong for a year on learning support suspension may transfer in the appropriate Core A math course, re-enroll in foundations level mathematics courses (MATH 0987 or 0989) or retake the COMPASS exam and score high enough to exempt foundation level learning support.

For further information, please contact the Office of Academic Orientation and Advisement

**Academic Standing Appeals:** Students with extenuating circumstances that have negatively affected their academic performance may file an appeal for earlier readmission through the Academic Appeals Process. The deadline for appeals is 2 days before the semester begins. Appeals received after the deadline will be considered only for a subsequent term. Appeals must include transcripts of all work and the nature of extenuating circumstances relating to the academic deficiency. Appeals will be considered on a case-by-case basis. The Armstrong Academic Appeals Committee will make a recommendation to the Associate Provost for a decision. The final decision on appeals rests with the Provost.

**Academic Standing Policy (effective Fall 2016)**

*Effective Fall 2016, this will be the Academic Standards policy for incoming students.*

Effective Fall 2016, the university will recognize five categories of academic standing: good standing, academic intervention (good standing), academic warning, academic probation, and academic suspension.

**Good Standing:** Students are considered to be in good standing if they have maintained or exceeded the required Overall GPA for the hours attempted as noted below.

<table>
<thead>
<tr>
<th>Semester Hours Attempted (at Armstrong and elsewhere)</th>
<th>Required Overall GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-29 Attempted Hours</td>
<td>1.8</td>
</tr>
<tr>
<td>30-45 Attempted Hours</td>
<td>1.9</td>
</tr>
<tr>
<td>Over 45 Attempted Hours</td>
<td>2.0</td>
</tr>
</tbody>
</table>
**Academic Intervention (Good Standing):** Students who have earned 0-29 hours and do not meet GPA requirements will be placed on Academic Intervention (Good Standing), AASU 1101 Required the next semester of enrollment.

**Academic Warning:** Students who are on Academic Intervention and do not raise their GPA above the required GPA to be removed from Academic Intervention, or those with 30 hours whose required overall GPA falls below the standard for good standing, will be placed on Academic Warning.

**Academic Probation:** A student will be placed on probation at the end of any semester in which the institutional average remains below the stated minimums and academic warning has been issued during the previous semester.

**Academic Suspension:** Students on academic probation who neither achieve the required overall GPA nor earn at least a 2.0 GPA during the probationary semester (with all grades C or higher) will be placed on academic suspension from the university.

**Assumption of Financial Responsibility**

When a student registers, the act of registering signifies the assumption of definitive obligations between that student and the university. It is an agreement by the student and the student’s family to fulfill the terms of registration. Therefore, students will be required to settle all financial accounts due the university before being allowed to preregister for the upcoming semester and prior to graduation.

Students will not be allowed to register for another term, will not be granted a degree or a certificate, or furnished a transcript of record for any purpose until settlement of all financial accounts is complete.

**Attendance and Student Responsibility**

It is the student’s responsibility to verify the accuracy of their course schedule at all times. It is imperative that the student verify the accuracy of their course schedule during the attendance verification period.

Students are responsible for dropping all classes that they do not plan to attend or complete. Students are also responsible for registering or adding classes for which they wish to receive credit. Drop/adds must be completed during the drop/add period which is defined on the academic calendar for each term or part of term.

**Attendance and Grades**

The effect of attendance on course grades is left to the discretion of instructors. Students are responsible for knowing everything that is announced, discussed, or lectured upon in class as well as for mastering all outside assignments. Students are also responsible for submitting all assignments, tests, recitations, and unannounced quizzes on time.

Instructors are responsible for informing all classes in the syllabus and at the first meeting what constitutes excessive absence in the course. Students are responsible for knowing and complying with attendance regulations in all their courses. Instructors may withdraw students from any course with a grade of W or WF on or before the midterm semester dates or with a grade of WF after the midterm semester dates if, in their judgment, absences have been excessive.

**Attendance and Enrollment**

Federal regulations require the University to confirm that students are attending class before financial aid will be released to the students. Faculty must verify attendance for all students in all classes regardless of whether or not the student is receiving financial aid. Students will not receive aid for classes in which they did not attend. Also, students may be dropped from classes in which they did not attend. It is the students’ responsibility to confirm that they have been dropped from a class in order to ensure appropriate grading and financial charges have occurred.
The attendance verification period is on the academic calendar for each term or part of term. In general, this verification occurs during the first few days of the short terms or the first week of full terms. Faculty are encouraged to verify attendance the day of the first class meeting.

Auditing Courses

Students must request to audit courses during the registration process. Students may not change from audit to credit status or from credit to audit status after the term begins. In place of a grade, the letter V is recorded on the student’s transcript for any audited course. Students auditing a course or courses pay regular tuition and fees. Students may not audit learning support courses.

Course and Study Load

For students who want to complete their degree within four years, attending only fall and spring semesters, the normal course and study load is 15-18 credit hours per semester. In addition to time spent in class, students should expect to devote at least 30-36 hour a week to course preparation (about two hours in out-of-class preparation for every hour spent in class). A student who is registered for 12 or more semester hours is, however, considered full time, with part-time status applying only to those students who register for 11 or fewer credit hours.

There are many reasons why a student may need to maintain full-time status, including participation in athletics and enrollment in family health insurance. Additionally, students receiving benefits from the Social Security Administration must, by law, carry a minimum of 12 hours. Likewise, veterans receiving educational VA benefits must enroll for at least 12 semester hours in their approved program of study to be classified for full-time benefits.

Students are limited to 18 credit hours per semester. Permission to enroll for more than 18 semester hours will be granted by the Registrar’s Office under the following conditions.

- Student has earned a 3.0 GPA in the preceding semester; or
- Student has earned a 3.0 Overall GPA; or
- Permission of the degree/major department head or dean; or
- Student requires an extra course in the one or two semesters prior to graduation.

No student will be allowed to register for more than 21 semester hours.

Dropping or Withdrawing from Courses

Policy for Dropping Courses: A student who drops a course before the drop/add period is over does not receive a grade in the course and the course does not appear on the academic transcript. Being dropped for non-attendance, for non-payment, and from a student-initiated request to be dropped from all classes during the established drop/add period for each term or part of term shall result in the same consequences pertaining to academic and financial records.

Course withdrawal policy effective Fall 2012: Students are allowed to withdraw from a particular course prior to midterm with the possibility of a grade of “W” recorded, at the discretion of the professor, one time. On the second and any subsequent attempt, if a student desires to withdraw from that course, a grade of “WF” is automatically recorded. A grade of WF is reflected in the academic GPA the same as a grade of “F”.

Policy exceptions:

• Only Armstrong State University course withdrawals will be considered. Therefore, W/WF grades transferred from other institutions will not count.
• With approved documentation, hardship withdrawals from the university are possible due to circumstances of extreme duress or for military obligations. See the sections on "Withdrawing from the University" and "Hardship Withdrawal from the University" cited in the Undergraduate Catalog.

Policy for dropping Learning Support courses:

• Students who are enrolled in co-requisite Learning Support courses must withdraw from both the Core course and the learning support course.
English and Mathematics Placement

During the initial terms of enrollment at Armstrong State University, students must enroll in the appropriate sequence of English composition courses until the sequence has been completed. Students must not delay this sequence beyond their second semester of attendance. The student’s English placement index (EPI) will be used for placement into learning support English. For assistance in identifying the appropriate English composition courses, students should consult advisors in the departments of their declared majors, the admissions office, or the Department of Languages, Literature, and Philosophy. See the Department of Languages, Literature, and Philosophy for further information (or check the department’s listing in the catalog).

Placement in mathematics courses is determined by the math placement index (MPI) and a combination of HSGPA, SAT, ACT or COMPASS scores is used to determine mathematics placement and placement into learning support courses.

The university reserves the right to place students in appropriate English and mathematics courses in the core curriculum. Diagnostic tests may be administered for this purpose.

Enrollment Limits

1. New Students: The number of credit hours for new students will be limited during the first term as follows:
   - Regular admission - limited to 18 credit hours. Students may appeal this limit through their major Department Head and/or College Dean.
   - Limited admission - limited to 13 credit hours. Students may appeal this limit to the Director of Academic Orientation and Advisement.

2. Currently Enrolled Students: Students placed on Academic Warning or Academic Probation are limited to 13 credit hours. Students may appeal this limit to the Director of Academic Orientation and Advisement.

First Class Learning Community

All students admitted as freshmen to Armstrong State University must enroll in a First Class Learning Community, composed of a core course and a first-year seminar (FYSE 1000, FYSH 1000, FYSL 1000, or FYSS 1000), in order to fulfill their graduation requirements. Since these courses comprise a learning community, a withdrawal necessarily means withdrawing from both courses. Transfer students entering with 30 or more credits are exempt from this requirement.

General Degree Requirements

Each student is responsible for fulfilling the requirements of the degree program chosen in accordance with the regulations of the university catalog.

Application for Graduation. Students must pay all fees before degrees will be conferred. Students should submit to the cashier a completed application for graduation form two semesters before graduation. Candidates for degrees, are encouraged to attend the graduation exercises at which degrees are to be conferred. If candidates cannot attend, they must notify the Registrar’s Office.

Catalog in Effect. Students will normally graduate under the catalog in effect at the time of their admission or readmission to the university, but may elect to graduate under a subsequent catalog. When a student changes their major, core and program requirements may change based on the catalog in effect at the time of the major change. In the College of Health Professions and the College of Education, students will graduate under major program requirements in effect upon admission or readmission to the specific health professions or teacher education program. Core requirements change upon readmission to the University. Armstrong State University reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without notice to individual students.

Core Overlay. Board of Regents policy states that all students entering the University System of Georgia for the first time in Fall 2012 or later, must complete core overlay requirements. Native
Armstrong students fulfill these requirements by taking courses in Area E1 (US perspectives); B2 (global perspectives) and E3 (critical thinking). Transfer students from another USG school meet these requirements by completing courses that meet these requirements at the prior USG institution or by completing the appropriate courses in the core at Armstrong. Students are advised to check their DegreeWorks audit to confirm that the overlay requirements are met and discuss any missing requirements with their advisor.

Course Requirement Exceptions. Exceptions to course requirements for a degree are permitted only with the written approval of the appropriate dean, upon the recommendation of the department head.

Credit Hour Requirements. To qualify for the baccalaureate degree, a student must earn at Armstrong at least 25 percent of credit applicable toward the degree. Additionally, the student must complete successfully at Armstrong at least half of the upper division credits required in the major field of study. For students in teacher education programs, the major field of study is the teaching field. For the associate degree, a student must complete at least 25 percent of course work at Armstrong State University.

DegreeWorks. Degree Works is a web-based, informational tool to help students and advisors monitor a student’s progress toward degree completion. DegreeWorks combines Armstrong’s degree requirements and the coursework students have completed into an easy-to-read worksheet that shows how completed courses count toward degree requirements, and what courses still need to be completed. DegreeWorks automatically populates courses that Armstrong accepts for transfer credit into the proper place in Area’s A-F or the major field. All currently-enrolled undergraduate students who are using the 2013-2014 or a later catalog to fulfill their degree requirements can use DegreeWorks to check their progress toward degree completion. Questions about your audit in DegreeWorks should be addressed to your academic advisor.

Double Major. Students wishing to receive a double major must satisfy major requirements of both disciplines including all residency and institutional requirements for each major. Courses to satisfy both degree programs may be taken concurrently. Only one major will appear on the diploma. Both majors will be designated on the transcript.

Dual Degrees. Students wishing to receive a dual degree (two degree programs satisfied concurrently) must satisfy major requirements for both degrees including all residency, institutional, and additional requirements for each degree. Courses to satisfy one program cannot be used to satisfy the other program (courses used to satisfy Areas F or above - major courses - cannot be used twice). An additional 30 hours must be taken to earn a second degree. The student will be issued a diploma for each program at graduation.

ECore. eCore courses are core courses taught entirely online, except for proctored exams. eCore courses are delivered through the University of West GA to University of Georgia System Institutions. Please direct questions about eCore courses to eCore. Contact information: http://ecore.westga.edu/ ecore@westga.edu, eCore Help Line at 678-839-5300. eCore pre-requisites may differ from Armstrong pre-requisites and the courses are considered transfer credit on your transcript. The eCore calendar also differs from the Armstrong calendar. Students are responsible for knowing the eCore calendar if they register for an eCore course. The eCore introduction must be viewed before you can register for an eCore class. The introduction can be found at https://ecore.usg.edu/prospective/orientation/

Exit Exams. All students must take major field and general education exit examinations.

First Class Learning Communities. All students entering Armstrong State University with fewer than 30 credits must enroll in a First Class Learning Community, composed of a core course and a first-year seminar (FYSE 1000, FYSH 1000, FYSL 1000, or FYSS 1000), in order to fulfill their graduation requirements. Since these courses comprise a learning community, a withdrawal necessarily means withdrawing from both courses. Transfer students entering with 30 or more credits are exempt from this requirement to complete a first-year seminar course, but still must complete total credit hours for the program of study.

Grades. All grades for graduating seniors must be cleared 30 days following Armstrong State University’s grade submission. This would include: CLEP scores, transient scores, IDL (Georgia Distance Learning) courses, “NR” (not reported) grades, “I” (incomplete) and/or “In Progress”
grades, exchange program grades, grades for courses taken through other colleges at Armstrong, Study Abroad courses, etc.

**History and Constitution Requirements.** By state law, every student who receives a degree from a school supported by the state of Georgia must demonstrate proficiency in United States history and constitution and in Georgia history and constitution. See area E in the core curriculum, and the section entitled State Requirement in History and Constitution following the core curriculum. Students who transfer coursework in Area E may need to take specific courses in either E1 (HIST/ POLS 1100) or E4 (HIST 2111/2112) to complete these requirements or take a CLEP, AP or local exam on the GA constitution. Consult your Degree Works Audit or your advisor for more information.

**Minimum Grade Point Average.** To meet degree requirements, students must earn a grade point average of 2.0 or better in each of the following:
- all work at Armstrong;
- overall;
- all courses in the major field.
Some degrees have higher grade point average requirements. Contact major department for complete details.

**Minors.** To earn a minor in conjunction with a degree, students must complete all requirements (as specified) at Armstrong unless substitutions are granted by the department head or program coordinator. Specific course requirements for earning a minor are listed under each department. A minor must contain 15 to 18 semester hours of coursework with at least 9 hours of upper-division coursework. Courses taken to satisfy Core Areas A through E may not be counted as coursework in the minor. Core Area F courses may be counted as coursework in the minor.

**Physical Education Requirements.** All students who are enrolled in degree programs must adhere to the Armstrong State University physical education requirements. Physical Education requirements are defined in each program of study. Student's pursuing Bachelor degrees are required to take 3 hours of Physical Education; students pursuing an Associate of Arts or Associate of Applied Science in Criminal Justice are required to take 2 hours of Physical Education. Students can satisfy these requirements by completing PEBC 2001 (Concepts of Personal Health and Fitness), PEBC 2000 (Concepts of Fitness) plus one semester hour of a physical education activity course or three semester hours of physical education activity courses to satisfy the required hours for their degree programs. Transfer students, students with prior military experience and ROTC students may be able to substitute military coursework or experience for Armstrong's Physical Education requirements.

**Repeating Courses.** Students may repeat any course. However, when a course is repeated, all grades for each attempt count toward attempted hours, grade point average hours, and overall grade point average. All course work taken remains on a student's academic records. All courses taken during Fall 2012 and thereafter are included in the GPA. For the purposes of graduation and meeting pre-requisites, Armstrong will only use the last attempt. If a student fails a course after passing it on the previous attempt, they must take and complete the course again with an appropriate passing grade to satisfy graduation requirements. Grades are not averaged for any purpose. All graded attempts count toward GPA. Courses taken prior to Fall 2012 that are repeated are subject to the replacement repeat policy in place at that time. Repeat rules will be applied when equivalent courses are repeated (Example: POLS 1100 and HIST 1100).

**Second Baccalaureate Degree.** A candidate for a second baccalaureate degree from Armstrong State University must earn a minimum of 30 additional credit hours and meet all requirements for the degree.

**Transient Enrollment.** Armstrong students may not be transient to another institution during the term immediately prior to graduation without written approval by the Academic Department and the Registrar’s Office.

**Grade Appeal Process**

In accordance with Armstrong State University regulations, appeals for a change of grade are initiated by the student prior to midterm of the semester after the grade was received. A change of grade, other than incomplete, may not be made later than two calendar semesters following the semester in which the grade was received.
A student who contests a grade must follow this procedure:

1. The student must discuss the contested grade with the instructor involved.

2. If the grade dispute remains unresolved, the student must meet with the department head/program director and the instructor. If the grade dispute is with the department head/program director, the student must meet with the dean of the college/school (or designee) and the department head/program director. A “memorandum for the record” will be prepared by the department head (dean or designee) which will include the substance of the conversations and pertinent documentation presented during the meeting. The student will receive a copy upon request.

3. If the grade dispute remains unresolved, the student must request a formal hearing, in writing by mid-term of the semester following the posting of the disputed grade, according to the procedures outlined by the college.
   a. College procedures are available in the dean’s offices
   b. Colleges may choose to have one or two levels of review: departmental appeal committee and/or college appeal committee.
   c. Committees deliberate in closed door sessions after both the student and the instructor have presented their case and documentation. All discussions are confidential.

4. In the event of a departmental review, the department head will appoint the departmental appeal committee to hear the appeal. The committee will operate according to A-D below. If the student plans enrollment in a course for which the course grade being appealed is a prerequisite, see “6” below.
   a. The departmental appeal committee will consist of at least three faculty members, not including the instructor involved. Membership on the departmental appeal committee may include faculty from other departments in the college when deemed necessary by the department head. One of the faculty members will be designated by the department head as the hearing officer.
   b. The departmental appeal committee will hear statements from both the student and the instructor involved and will examine documents that are pertinent to the matter under review.
   c. The departmental appeal committee will hear the grade appeal and present its findings to the assistant dean of the college within 30 business days from the initiation of the appeal.
   d. Students may appeal the departmental appeal committee decision to the assistant dean for a college committee hearing within 10 business days of the departmental appeal committee decision.

5. In the event of a college level review, the dean of the college (or designee) will appoint a college appeal committee to hear the appeal. The college appeal committee will operate according to A-C below. If the student plans enrollment in a course for which the course grade being appealed is a prerequisite, see “6” below.
   a. The college appeal committee will consist of at least one faculty member from each department, not including the instructor involved. The assistant dean of the college (or other faculty chosen by the Dean of the college) will chair the college committee and serve as an ex-officio member of the committee.
   b. The college appeal committee will hear statements from both the student and the instructor involved and will examine documents that are pertinent to the matter under review.
   c. The college appeal committee will hear the grade appeal and present its findings to the dean of the college prior to the last day of the semester.

6. If the student plans enrollment in a course for which the course grade being appealed is a prerequisite, then the following timetable will be met at the first of that semester/term:
   a. If a grade appeal is not resolved with the instructor concerned, the student will file an appeal in writing with the department head/program director (or the college/school dean or designee if the grade dispute is with the department head/program director).
This step will be taken by the first day of classes of the semester/term following the posting of the disputed grade.

b. The college appeal committee will be appointed by the third day of the semester and will hear the grade appeal by the third day of the semester.

c. The college appeal committee will present its findings to the college dean by the fifth day of the semester.

d. If the appeal to the college dean is denied, the student will be removed from the official class roster of the course if the student is already enrolled.

7. In all cases, if the college dean denies the appeal, the student may appeal to the Provost (or his or her designee). This appeal must be in writing and must be filed within five days of notification from the college dean.

8. Neither the president nor the Board of Regents will accept or consider appeals based on academic grades.

Students should consult their program and college for further information and their policies that may apply.

Grading System and Grade Symbols

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>(Excellent) 4.0</td>
</tr>
<tr>
<td>B</td>
<td>(Good) 3.0</td>
</tr>
<tr>
<td>C</td>
<td>(Satisfactory) 2.0</td>
</tr>
<tr>
<td>D</td>
<td>(Passing) 1.0</td>
</tr>
<tr>
<td>F</td>
<td>(Failure) 0.0</td>
</tr>
<tr>
<td>W</td>
<td>(Withdrew, no academic penalty) 0.0</td>
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<tr>
<td>WF</td>
<td>(Withdrew, failing) 0.0</td>
</tr>
<tr>
<td>WH</td>
<td>(Withdrawn, no academic penalty) 0.0</td>
</tr>
<tr>
<td>WM</td>
<td>(Withdraw Military, no academic penalty) 0.0</td>
</tr>
<tr>
<td>I</td>
<td>(Incomplete) 0.0</td>
</tr>
<tr>
<td>IP</td>
<td>(In Progress) 0.0</td>
</tr>
<tr>
<td>S</td>
<td>(Satisfactory) 0.0</td>
</tr>
<tr>
<td>U</td>
<td>(Unsatisfactory) 0.0</td>
</tr>
<tr>
<td>V</td>
<td>(Audit, no credit) 0.0</td>
</tr>
<tr>
<td>K</td>
<td>(Credit by Examination) 0.0</td>
</tr>
<tr>
<td>NR</td>
<td>(Grade Not Reported) 0.0</td>
</tr>
</tbody>
</table>

Grading System

- # Academic Renewal (forgiveness policy). Course grade not counted in computation of grade point average. Hours earned for grades of A, B, C and S.
- % Learning support grade symbol. Course grade not counted in computation of grade point average or hours earned.
- * RHSC. Course grade counted in computation of grade point average, and in earned hours if taken prior to earning 30 hours.

Course Repeat Symbols

- A Course repeated. Course grade averaged in grade point average.
- E Course repeated. Course grade excluded from grade point average and hours earned.
- I Course repeated. Course grade included in grade point average and hours earned. (See also Incomplete Grade below.)

Exclusions from grade point average calculation do not apply when calculating HOPE Scholarship grade point average.
The letters S and U may be used for completion of degree requirements other than academic course work (such as student teaching, clinical practice, etc.). Instructors may assign a grade of W or WF at their discretion until the published midterm date for each term or part of term. Any withdrawal after the published midterm date will result in a grade of WF. Students who have withdrawn from a course during Fall 2012 or later will receive a WF for any subsequent withdrawals from that same course, regardless of the midterm date or the grade requested by the instructor. Grades received in learning support courses are not computed in the grade point average.

**Incomplete Grade**

An incomplete grade that has not been removed by the midterm of the following semester is changed to a grade of F unless the instructor recommends an extension in writing, addressed to the appropriate dean.

**Grade Point Average Calculation**

Three academic grade point averages (GPAs) are displayed on students’ transcripts.

- **Institutional GPA.** Determined by dividing the total quality points earned by the total hours attempted on all course work taken at Armstrong only.
- **Transfer GPA.** Determined by dividing the total quality points earned by the total hours attempted on all transfer course work taken at other institutions.
- **Overall GPA.** Determined by dividing the total quality points earned by the total hours attempted on all course work taken at Armstrong and elsewhere.

A **HOPE GPA** is calculated for HOPE scholarship recipients and displayed on the Permanent Student Record located on the web. The HOPE GPA includes all attempted hours and may differ from a student’s Overall GPA.

**Honors**

- **Dean's List and President's List.** Armstrong State University is proud of the academic achievement of its students. One way to acknowledge and celebrate the hard work and scholarship of our students is by inclusion on the Dean’s List or President’s List. In order to make the Dean’s List, students must have earned at least nine semester hours of course work and earn a grade point average of at least 3.6. The President’s List includes those students who received a 4.0 grade point average during two consecutive semesters (Fall/Spring) within the same academic year. A minimum of nine credit hours per semester is required.
- **Cum Laude.** Students with a grade point average of 3.2 through 3.499 will graduate *cum laude.*
- **Magna Cum Laude.** Students with a grade point average of 3.5 through 3.799 will graduate *magna cum laude.*
- **Summa Cum Laude.** Students with a grade point average of 3.8 through 4.0 will graduate *summa cum laude.*

All work attempted at Armstrong and other accredited institutions will be considered in computing graduation honors. Academic honors will not be awarded to second degree recipients unless students specifically request an “award evaluation.” All course work is considered for honors.

**Honor Code**

All students at Armstrong State University must agree to abide by the Honor Code and Code of Conduct. The Honor Code and Code of Conduct may be found in the appendix at the end of this catalog.

**Honors Program**

The Honors Program at Armstrong State University has rapidly developed into a vibrant community of student leaders. The program offers talented, motivated students across disciplines a chance to take creative, small classes in the place of general education requirements. It also offers the opportunity
to apply intellectual curiosity to independent projects or special major classes. Honors courses reflect the creative, student-centered approach to learning that is central to the program’s mission. Classroom experiences in the Honors Program are enhanced by extracurricular opportunities such as field trips, community service projects, study-abroad programs, social gatherings, and trips to regional and national conferences where students present the results of their honors experiences. In sum, the Honors Program embodies the traditional values of a Liberal Arts institution at its best, fosters a commitment to lifelong learning, and serves as a campus testing ground for innovative approaches to teaching and learning.

The program is based in a suite of classrooms and a lounge in Solms Hall, a comfortable facility with a friendly and collegial atmosphere and some of the most powerful computers on campus. Current enrollment in the Honors Program is about 200. A limited number of lucrative scholarships are available for qualified students who meet and maintain high standards of academic performance. For more information and an application form, please contact the Honors Program at 912.344.3242 or jonathan.roberts@armstrong.edu.

The program consists of two parts, honors in the core and the honors project.

Honors in the Core. Honors students complete the honors in the core requirement by earning a B or better in four honors courses, which may include:

- BIOL 1107H/1107A—Honors Principles of Biology I and Lab
- BIOL 1108H—Honors Principles of Biology II and Lab
- CHEM 1212H/1212A—Honors Principles of Chemistry II and Lab
- CSCI 1301H—Honors Introduction to Programming Principles
- ENGL 1102H—Honors Composition II
- ENGL 2100H—Honors Literature and Humanities
- GEOL 2010H—Honors Physical Geology
- HIST 1112H—Honors Civilization II
- HONS 2000—Honors Topics in Global Perspectives
- HONS 2100—Honors Topics in Ethics and Values
- MATH 1161H—Honors Calculus I
- PSYC 1101H—Honors Introduction to Psychology

Other honors core curriculum courses may be offered in a given semester as determined by the honors committee.

Honors in the Major. Honors students complete the honors in the major component by satisfying the requirements specified by the major area and approved by the honors committee. These requirements may include a specific course or an independently designed research project, paper, or performance.

Honors Project. Honors students have three options for completing their Honors Project: Honors in the Major, Interdisciplinary Honors Project, and Honors in Service and Leadership. In each case, the student will complete a project approved and supervised by an advisory committee.

Graduation with Honors. Students will graduate with honors by completing Honors in the core and an Honors project, and graduating with at least a 3.2 grade point average. The achievement will be noted on the diploma and the college transcript. Honors program graduates will also receive one of the traditional Latin honors.

Transfer Students. Transfer students may graduate with honors under special conditions that take transferred coursework into consideration. See the director of the Honors Program for more details.

Pathways to Obtain College Credit

Coursework Taken at Other Institutions. To apply transfer/transient credit toward degree requirements at Armstrong, students must obtain prior approval from the appropriate department head or dean before enrolling in coursework at another institution. Failure to seek approval places the student at risk of taking course work that may not satisfy degree requirements.
As a member of the USG Adult Leaning Consortium, Armstrong has agreed to the following principles for Adult Students:

- Armstrong adheres to the Council on Adult and Experiential Learning (CAEL) Ten Standards for Assessing Learning. The standards are found here: http://www.cael.org/pla.htm
- Armstrong works from the principle that nationally recognized, standardized PLA options, such as CLEP, and institutionally recognized challenge exams will be considered before individualized assessments.
- Armstrong accepts assessed and transcripted courses from other consortium members.
- Armstrong does not charge a fee to accept CLEP, ACE or College Board passing scores. Passing scores on such exams are credited, regardless of when the exam was taken (prior to enrollment).
- Armstrong has adopted a common course, and standard procedures for prior learning assessment portfolio option.

Credit by Examination. Armstrong State University grants credit toward a college degree for the examinations and scores listed below. Credit awarded by examination cannot replace a previous grade earned for the same course. To receive credit, incoming students must send an official score report to the Office of Admissions. Current students must have the approval of the appropriate Department Head prior to signing up for credit by examination.

Limits on credit earned. A total of 45 semester hours can be earned through any combination of CLEP, military credit, credit by departmental examination, portfolio assessment, International Baccalaureate credit, and advanced placement credit.

Examinations for High School Students

<table>
<thead>
<tr>
<th>Test</th>
<th>Score Required</th>
<th>Armstrong equivalent</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Placement (<a href="http://www.collegeboard.com">www.collegeboard.com</a>)</td>
<td></td>
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<tr>
<td>Art History</td>
<td>(4)</td>
<td>ARTS 1100</td>
<td>(3)</td>
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<tr>
<td>Biology</td>
<td>(3)</td>
<td>BIOL 1103</td>
<td>(4)</td>
</tr>
<tr>
<td>Biology</td>
<td>(4)</td>
<td>BIOL 1107</td>
<td>(4)</td>
</tr>
<tr>
<td>Biology</td>
<td>(5)</td>
<td>BIOL 1107 and 1108</td>
<td>(8)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>(3)</td>
<td>CHEM 1211/L</td>
<td>(4)</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>(4)</td>
<td>CSCI 1301</td>
<td>(3)</td>
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<tr>
<td>Drawing I</td>
<td>(3)</td>
<td>ARTS 1010</td>
<td>(3)</td>
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<tr>
<td>2-D Design</td>
<td>(3)</td>
<td>ARTS 1020</td>
<td>(3)</td>
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<tr>
<td>3-D Design</td>
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<td>ARTS 1030</td>
<td>(3)</td>
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<tr>
<td>English Language &amp; Composition</td>
<td>(3)</td>
<td>ENGL 1101</td>
<td>(3)</td>
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<tr>
<td>English Literature &amp; Composition</td>
<td>(3)</td>
<td>ENGL 1101</td>
<td>(3)</td>
</tr>
<tr>
<td>English Literature &amp; Composition</td>
<td>(5)</td>
<td>ENGL 1101 and 1102</td>
<td>(6a)</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>(3)</td>
<td>BIOL 1140</td>
<td>(3)</td>
</tr>
<tr>
<td>European History</td>
<td>(3)</td>
<td>Elective</td>
<td>(3)</td>
</tr>
<tr>
<td>European History</td>
<td>(5)</td>
<td>Elective</td>
<td>(6)</td>
</tr>
<tr>
<td>French Language</td>
<td>(3)</td>
<td>FREN 1001</td>
<td>(3b)</td>
</tr>
<tr>
<td>French Language</td>
<td>(4)</td>
<td>FREN 1001, 1002, 2001, 2002</td>
<td>(12d)</td>
</tr>
<tr>
<td>French Literature</td>
<td>(3*)</td>
<td>FREN 1001</td>
<td>(3)</td>
</tr>
<tr>
<td>German Language</td>
<td>(3)</td>
<td>GRMN 1001</td>
<td>(3)</td>
</tr>
<tr>
<td>Government &amp; Politics: US</td>
<td>(3)</td>
<td>Elective</td>
<td>(3)</td>
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<tr>
<td>Human Geography</td>
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<td>GEOG 2120</td>
<td>(3)</td>
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<tr>
<td>Latin/Latin Literature</td>
<td>(3*)</td>
<td>LATN 1001</td>
<td>(3)</td>
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<tr>
<td>Mathematics/Calculus AB</td>
<td>(3)</td>
<td>MATH 1161</td>
<td>(4)</td>
</tr>
<tr>
<td>Mathematics/Calculus B/C</td>
<td>(3)</td>
<td>MATH 1161 and 2072</td>
<td>(8)</td>
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<tr>
<td>Macroeconomics</td>
<td>(3)</td>
<td>ECON 2105</td>
<td>(3)</td>
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<td>Microeconomics</td>
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<td>ECON 2106</td>
<td>(3)</td>
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<td>(2)</td>
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<td>Physics B</td>
<td>(3)</td>
<td>PHYS 1111K</td>
<td>(4)</td>
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<tr>
<td>Physics C/Mechanics</td>
<td>(3)</td>
<td>PHYS 2211K</td>
<td>(4)</td>
</tr>
<tr>
<td>Physics C/Electrical and Magnetic</td>
<td>(3)</td>
<td>PHYS 2212K</td>
<td>(4)</td>
</tr>
</tbody>
</table>
Psychology (3) PSYC 1101 (3)
Spanish Language (3) SPAN 1001 (3b)
Spanish Language (4) SPAN 1001, 1002, 2001, 2002 (12d)
Spanish Literature (3*) SPAN 1001 (3)
Statistics (3) MATH 2200 (3)
Studio Art (Art-Drawing) (3) ARTS 1010 (3)
U.S. History (3) HIST 2111 or 2112 (3)
U.S. History (5) HIST 2111 and 2112 (6)
World History (3) HIST 1111 or 1112 (3)
World History (5) HIST 1111 and 1112 (6)

International Baccalaureate Diplomas and Certificates

Students who have participated in International Baccalaureate Programs in their high schools are welcomed at Armstrong State University. In many circumstances, we are able to award college credit for exemplary performance in IB courses. Students who have completed International Baccalaureate diplomas and/or certificates should provide evidence to the Admissions Office of their success in their courses. IB courses not listed may be considered by the Department Head of the academic discipline. Students can not earn credit for the same course on the basis of AP testing and IB course credit. A maximum of 24 credits will be awarded.

Note: Credit for standard level tests will only be awarded if the student has completed the diploma program.

<table>
<thead>
<tr>
<th>Standard Level (SL)</th>
<th>Minimum Score Required</th>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>6</td>
<td>BIOL 1107</td>
<td>(3)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5</td>
<td>CHEM 1151/1151L</td>
<td>(4)</td>
</tr>
<tr>
<td>French</td>
<td>5</td>
<td>FREN 1001 and 1002</td>
<td>(6)</td>
</tr>
<tr>
<td>French</td>
<td>6</td>
<td>FREN 1001, 1002, 2001</td>
<td>(9)</td>
</tr>
<tr>
<td>French</td>
<td>7</td>
<td>FREN 1001, 1002, 2001, 2002</td>
<td>(9)</td>
</tr>
<tr>
<td>Geography</td>
<td>5</td>
<td>Department Head will review syllabus</td>
<td></td>
</tr>
<tr>
<td>History of the Americas</td>
<td>5</td>
<td>Department Head will review syllabus</td>
<td></td>
</tr>
<tr>
<td>Math SL</td>
<td>5</td>
<td>MATH 1113</td>
<td>(3)</td>
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<tr>
<td>Psychology</td>
<td>5</td>
<td>PSYC 1101</td>
<td>(3)</td>
</tr>
<tr>
<td>Spanish</td>
<td>5</td>
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<td>(3)</td>
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<tr>
<td>Spanish</td>
<td>6</td>
<td>SPAN 1002, 2001</td>
<td>(6)</td>
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<tr>
<td>Spanish</td>
<td>7</td>
<td>SPAN 1002, 2001, 2002</td>
<td>(9)</td>
</tr>
<tr>
<td>Theatre</td>
<td>5</td>
<td>THEA 1100</td>
<td>(3)</td>
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<tr>
<td>Visual Arts</td>
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<td>(3)</td>
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<tr>
<td>World History</td>
<td>5</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Higher Level (HL)</th>
<th>Score Required</th>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>4 (with diploma)</td>
<td>BIOL 1107</td>
<td>(3)</td>
</tr>
<tr>
<td>Biology</td>
<td>5</td>
<td>BIOL 1107</td>
<td>(3)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>CHEM 1151/1151L</td>
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<tr>
<td>Chemistry</td>
<td>5</td>
<td>CHEM 1211</td>
<td>(4)</td>
</tr>
<tr>
<td>Computer Science</td>
<td>5</td>
<td>CSCI 1301</td>
<td>(3)</td>
</tr>
<tr>
<td>English A1</td>
<td>4</td>
<td>ENGL 1101</td>
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</tr>
<tr>
<td>Economics</td>
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<tr>
<td>French</td>
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<td>French</td>
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<td>French</td>
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<td>FREN 1001, 1002, 2001, 2002</td>
<td>(12)</td>
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<td>Geography</td>
<td>4</td>
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<td>(3)</td>
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<td>History of the Americas</td>
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<td>Department Head will review syllabus</td>
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<td>Math: Calculus</td>
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<td>MATH 1113 and MATH 1161</td>
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<tr>
<td>Math: Further</td>
<td>4</td>
<td>MATH 1161 and MATH 2200</td>
<td>(7)</td>
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<tr>
<td>Math: Stat/Prob</td>
<td>4</td>
<td>MATH 1113 and MATH 2200</td>
<td>(6)</td>
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<tr>
<td>Philosophy</td>
<td>5</td>
<td>PHIL 2100</td>
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</table>
Physics  
4  PHYS 111K  

Physics  
5  PHYS 111K and PHYS 1112K  
Or PHYS 2211K and PHYS 2212K  

Psychology  
4  PSYC 1101  

Spanish  
4  SPAN 1001, SPAN 1002  
6  SPAN 1001, 1002, 2001  
7  SPAN 1001, 1002, 2001, 2002  

Theatre  
4  THEA 1100  

Visual Arts  
4  ARTS 1020  

World History  
5  HIST 1112  

**SAT II: Subject Tests**
- American History  
  (3)  HIST 2111 or 2112  
  (3)  

**Examinations for College Students**
**College-Level Examination Program (CLEP)** ([www.collegeboard.com](http://www.collegeboard.com))

<table>
<thead>
<tr>
<th>Test</th>
<th>Score Required</th>
<th>Armstrong equivalent</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Examinations</strong></td>
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</tr>
<tr>
<td>Humanities</td>
<td>(50)</td>
<td>ARTS 1100</td>
<td>(3)</td>
</tr>
<tr>
<td>Natural Science</td>
<td>(50)</td>
<td>PHSC 1211 (without lab)</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Subject Examinations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algebra, College</td>
<td>(50)</td>
<td>MATH 1111</td>
<td>(3)</td>
</tr>
<tr>
<td>American Government</td>
<td>(50)</td>
<td>Elective**</td>
<td>(3)</td>
</tr>
<tr>
<td>Analyzing &amp; Interpreting Literature</td>
<td>(50)**</td>
<td>ENGL 1102</td>
<td>(3)</td>
</tr>
<tr>
<td>Biology</td>
<td>(50)</td>
<td>BIOL 1107 (lecture only)</td>
<td>(3)</td>
</tr>
<tr>
<td>Calculus</td>
<td>(50)</td>
<td>MATH 1161</td>
<td>(4)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>(50)</td>
<td>CHEM 1151 (lecture only)****</td>
<td>(3)</td>
</tr>
<tr>
<td>College Composition Modular</td>
<td>(50)**</td>
<td>ENGL 1101</td>
<td>(3)</td>
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<td>College Mathematics</td>
<td>(50)</td>
<td>MATH 1001</td>
<td>(3)</td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>(50)</td>
<td>ACCT 2101</td>
<td>(3)</td>
</tr>
<tr>
<td>French Language, College Level</td>
<td>(50)</td>
<td>FREN 1001, 1002</td>
<td>(6b)</td>
</tr>
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<td>French Language, College Level</td>
<td>(59)</td>
<td>FREN 1001, 1002, 2001, 2002</td>
<td>(12c)</td>
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<tr>
<td>German Language, College Level</td>
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<td>GRMN 1001, 1002</td>
<td>(6b)</td>
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<tr>
<td>History of the US I: Early Colonization to 1877</td>
<td>(50)</td>
<td>HIST 2111</td>
<td>(3)</td>
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<tr>
<td>History of the US II: 1865 to the Present</td>
<td>(50)</td>
<td>HIST 2112</td>
<td>(3)</td>
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<td>Human Growth and Development</td>
<td>(50)</td>
<td>PSYC 2950</td>
<td>(3)</td>
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<tr>
<td>Information Systems &amp; Computer Applications</td>
<td>(50)</td>
<td>ITEC 1050</td>
<td>(3)</td>
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<td>Introductory Business Law</td>
<td>(50)</td>
<td>BUSA 2106</td>
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</tr>
<tr>
<td>Precalculus</td>
<td>(50)</td>
<td>MATH 1113</td>
<td>(3)</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>(50)</td>
<td>ECON 2105</td>
<td>(3)</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>(50)</td>
<td>ECON 2106</td>
<td>(3)</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td>(50)</td>
<td>PSYC 1101</td>
<td>(3)</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>(50)</td>
<td>SOCI 1101</td>
<td>(3)</td>
</tr>
<tr>
<td>Spanish Language, College Level</td>
<td>(50)</td>
<td>SPAN 1001, 1002</td>
<td>(6b)</td>
</tr>
<tr>
<td>Spanish Language, College Level</td>
<td>(66)</td>
<td>SPAN 1001, 1002, 2001, 2002</td>
<td>(12c)</td>
</tr>
</tbody>
</table>

**DANTES Subject Standardized Tests (DSST)** ([www.dsst@chauncey.com](http://www.dsst@chauncey.com))

- Criminal Justice  
  (49)  CRJU 1101  
  (3)  
- General Anthropology  
  (47)  ANTH 1102  
  (3)  
- Principles of Statistics  
  (48)  MATH 2200  
  (3)  

**Excelsior College Examinations**

- Statistics  
  (45)  MATH 2200  
  (3)  

* Consult head of Languages, Literature, and Philosophy Department if score is higher than 3.
** AP & Georgia Government Examination needed to satisfy state requirement for US/GA gov’t.
*** A “clearly passing” essay as well as a passing score on the objective test is required.
**** Student must take lab if required by major.
# Current national average
- A grade of C or better in ENGL 2100 is required before credit is given.
b. A grade of C or better in 2001 language course is required before credit is given.
c. A grade of C or better in a 3000-level language course is required before credit is given.
d. A grade of C or better in a 3000 level language course (that continues their sequence of study in the same language) is required before credit is given.

These guidelines are subject to change without notice. Academic departments select examinations and determine passing scores, which follow the test titles. The credit hours awarded are the same as those earned by students who complete the equivalent course(s). The letter grade K is used to identify credit by examination and has no effect on the academic grade point average. The registrar’s office adds courses and credit hours to the academic records of enrolled students.

For additional information, please make inquiry to the Admissions Office or the Registrar's Office.

**Department Challenge Exams.** These exams are comprehensive exams that determine whether or not a student has met the same learning outcomes required of any student who received a passing grade in a course. These exams may include oral presentations or demonstrations. These exams are available only for specific courses for which there is no CLEP test available, for students who have experience and learning in a specific field. Students passing this type of exam would receive K credit for a course. The authority to determine whether a challenge exam option is viable for a course rests with the department who teaches that course. Challenge exams are not appropriate for all courses. Contact the Department Head of the appropriate department to determine eligibility for and availability of a challenge exam.

**High School Completion of Education Pathway.** Georgia high school students who successfully completed the Education Pathway courses may receive 3 hours of credit for EDUC 2110. Successful completion is defined as:

1. Passing the three Education Pathway courses with a C or better. The courses are 13.01101 – Examining the Teaching Profession, 13.01200 – Contemporary Issues in Education, and 13.52100 – Teaching as a Profession Internship in Education.
2. Completion of a portfolio as part of the Pathway’s course requirements.
3. Passing of the statewide assessment.

Students who complete the Education Pathway and seek credit for EDUC 2110 must have the following documentation sent from their high school to the Admission Office at Armstrong:

1. Course transcripts showing satisfactory course completion. (Note: course numbers indicated above may vary slightly but will begin with the 13-prefix and will have the course title as notated; AND
2. Completion of the K Credit Award for EDUC 2110 memo on official high school letterhead and signed by the testing coordinator, principal or other designated certifying official

**Military Experience and Training.** As an institutional member of the Service members Opportunity Colleges Consortium, Armstrong State University provides service members with an option to petition for credit for military training. Eligible service members may be awarded a three-semester-hour physical activity credit (PEBC 2001) and additional credit for specialized training as determined by departmental review of ACE credit recommendations (if applicable to the degree program) upon receipt of official documentation. Adequate documentation must be provided by the student and accompany each request.

Students should complete the required request form within their first semester of enrollment at Armstrong. Students must submit official documentation of successful completion of military basic training (DD-214, JST or Community College of the Air Force transcript) with the required request form to the Veterans Affairs office.

**Prior Learning Assessment (PLA).** PLA is a process through which students identify areas of relevant learning from their past experiences, demonstrate that learning through appropriate documentation, and submit their materials so that they can be assessed. This assessment determines whether academic credit will be awarded at Armstrong. The university works with students from diverse backgrounds to evaluate their prior learning and determine if it is commensurate with the standards and requirements of college-level learning. Students enroll in a course that assists with portfolio development and subsequently submits the portfolio to the Department for final
assessment for credit. For more information about PLA at Armstrong, consult the PLA website at http://www.armstrong.edu/Departments/adult_learners/adult_prior_learning_assessment or the Office of Academic Orientation and Advisement.

**Transferring Transcribed PLA Credit.** Armstrong will accept K credit earned through prior learning assessment from other Adult Learning Consortium members as long as the course meets a core requirement or is accepted through an articulation agreement. This includes K credit earned through portfolios as long as the institution follows the Adult Learning Consortium stipulation to use credit by exam instead of portfolios whenever that option is available.

**Senior Privilege**

An undergraduate student with a GPA of 3.0 or higher and within 24 semester hours of graduation may apply for Senior Privilege and enroll in a maximum of 12 hours of graduate coursework at the 5000G and 6000-levels. The maximum of graduate coursework permitted in any one semester is eight hours; the maximum total of all coursework permitted in any semester in which a student is taking graduate coursework is 12 hours. Permission to enroll must be approved by the chairperson of the student’s undergraduate major and by the appropriate graduate program director. The graduate program director holds final authority.

**Student Classification**

Students are classified as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hours Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>1-29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89</td>
</tr>
<tr>
<td>Senior</td>
<td>90 or more</td>
</tr>
</tbody>
</table>

**Student Records**

*Academic Records.* The Registrar’s Office maintains official academic records (credit and non-credit) for undergraduate and graduate students at the university. An individual transcript detailing all course work attempted, hours earned, and computation of three GPA’s (institutional, transfer, and overall) constitutes the student’s permanent academic record. Other student records stored include the admissions application, admissions test scores, transcripts from institutions previously attended, and various data change forms.

Armstrong follows the published guidelines established by the American Association of Collegiate Registrars and Admissions Officers (AACRAO) and the Family Education Rights and Privacy Act (FERPA) for record retention and disposition. Student records are confidential, except for directory information.

**Armstrong State University Notification of Student Rights under FERPA.** The Family Educational Rights and Privacy Act (FERPA) provides students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 45 days of the day the university receives a request for access. A student should submit a request to inspect and review his or her education records to the University Registrar. The University Registrar is located in Victor Hall, Room 104. The written request must identify the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the Registrar will advise the student of the correct official to whom the request should be addressed.

2. The right to request amendment of education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. A student who wishes to ask the university to amend a record should write the University Registrar and clearly identify the part of the record the student wants changed,
and specify why it should be changed. If the university decides not to amend the record as requested, the University Registrar will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent. The university discloses education records without a student’s prior written consent to officials with legitimate educational interests, as permitted under FERPA. A school official is a person employed by the university in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted as its agent to provide a service instead of using university employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the university. Upon request, the university will also disclose a student’s education records without the student’s consent to officials of another college, university or other institution in which the student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-5901

   Directory Information. For a description of Directory Information categories used at Armstrong, please visit the Disclosure to Student’s page on the Registrar’s website.

   Under the provisions of the Family Educational Rights and Privacy Act of 1974, you have the right to withhold disclosure of such directory information. Armstrong State University will honor your request to withhold directory information.

   Technology Use

   The use of technology (computers, computer programs, etc.) is under the purview of the instructor and department of the course. Technological knowledge/application used in Armstrong State University courses will be at the discretion of the instructor. Technology used by Armstrong students (such as D2L, internet, on-line searches, etc.) can be accessed in the computer labs located on main campus. Students are required to have basic computer knowledge prior to admission to Armstrong State University. Courses will not be refunded based on the use of technology in the classroom.

   Students are assigned a student email account upon registering for their courses at Armstrong State University. Students are required to check their Armstrong email accounts daily for updates from professors, departments, and/or the university.

   Transient Students: Armstrong Students Transient to Another Institution

   Armstrong students may request to take course work at another college or university for a single term by completing a transient request form. This form requires approval from a student’s
department/major advisor prior to submission to the Registrar. Students must have been enrolled at Armstrong for the semester immediately prior to the transient term(s) (excluding summer). Students may be approved for transient status for only one term at a time (maximum of two consecutive terms). Grades and quality points earned for these courses will have an effect on the student’s overall grade point average at Armstrong and are considered in calculating graduation with honors. It is the student’s responsibility to contact the other institution to determine admission requirements and registration procedures.

An official transcript from the transient institution at the end of the specified term must be on file at Armstrong in order to register for a subsequent term at Armstrong. If the student does not attend the transient institution, it is the student’s responsibility to submit a transient non-attendance statement to the Registrar’s Office.

If the student is applying for financial aid at Armstrong for the transient term, a copy of the completed form must also be submitted to the Office of Financial Aid. An additional consortium agreement may be required. Please contact the Financial Aid Office for more information.

Seniors are discouraged from transiency in the graduation term. This includes being transient to complete course work through an independent study program elsewhere or participation in any off-campus Armstrong program. If transient permission is received in the graduation term, students are responsible for assuring that the Armstrong Registrar’s Office has received official grades from the transient institution prior to the awarding of the degree. Delays will postpone posting degree information on official Armstrong transcripts and could delay graduation for additional terms.

The transfer information provided during the transient request process is intended for planning purposes, and is subject to change at the discretion of Armstrong State University. Official transcripts must be received and evaluated before confirmation of equivalencies/electives may be verified.

Withdrawing from the University

Withdrawing from the university means that a student has requested to withdraw from all courses for the current term. The last day to formally withdraw from the university is the published last day of classes for the session enrolled.

To withdraw from the university:

1) Students must obtain a “Withdrawal Form” from the Registrar's Office in Victor Hall.
2) Students who receive financial aid, veterans’ benefits, and/or those who reside in university housing must consult with officials from those offices and secure their signatures on the withdrawal form.
3) Students must secure on the withdrawal form the signature, grade, and last date of attendance from the instructor of each course. Instructors may assign a grade of W or WF at their discretion until the published midterm date for each term or part of term. Any withdrawal after the published midterm date will result in a grade of WF. Students who have withdrawn from a course during Fall 2012 or later will receive a WF for any subsequent withdrawals from that same course, regardless of the midterm date or the grade requested by the instructor.
4) Completed withdrawal form must be submitted to the Registrar's Office(Victor Hall).

All students who withdraw from the university should verify their academic and financial records on their SHIP account. Any discrepancies must be resolved with the Registrar's Office no later than midterm of the semester following withdrawal. Withdrawals based on military obligations must include copies of supporting military orders.

Hardship Withdrawal from the University

Overview

In the event a student faces circumstances of extreme duress beyond his or her control, the student may request a hardship withdrawal from the university. Hardship withdrawals are not meant to be used for appealing academic matters (e.g. grades), but should be used when a student seeks to drop all classes and leave the university for the remainder of that semester. Hardship withdrawals should fall into one of three categories: medical, personal, or financial. Students will be required
to justify their withdrawal with documentation. On the rare instance that a student’s circumstances warrant only a partial withdrawal, thorough documentation will be required to substantiate why this student is able to continue with some coursework but not all coursework.

**Hardship Withdrawal Process**

A student seeking a hardship withdrawal will consult the Office of Academic Orientation and Advisement to be informed of the procedure for hardship withdrawal and to be given necessary forms. The Director of the Office of Orientation and Advisement will determine if an in person meeting is required. The student will return the completed forms for hardship withdrawal with supporting documentation to the Office of Academic Orientation and Advisement. The Office of Academic Orientation and Advisement will check the forms for completeness and transmit the forms to the Office of Academic Affairs for a decision by the Associate Provost for Student Engagement and Success.

A student seeking a full hardship withdrawal from the university must initiate the withdrawal process, complete required forms, and return all forms plus documentation to the Office of Academic Orientation and Advisement no later than midterm the semester following the withdrawal.

A student seeking a partial hardship withdrawal from one or more classes must initiate the withdrawal process, complete required forms, and return all forms plus documentation to the Office of Academic Orientation and Advisement no later than the last day of class for the semester in which he/she is seeking a partial hardship withdrawal.

**Financial Aid Implications**

All students seeking either a partial or full hardship withdrawal are strongly recommended to make an appointment with a financial aid counselor. This is of utmost importance if the student has received any financial aid (e.g. scholarship, loans, etc.). The granting of a hardship withdrawal may affect the student’s ability to receive future financial aid and may greatly affect the student’s ability to meet the Federally mandated Standards of Academic Progress. Students should be advised that the granting of a hardship withdrawal does not negate the requirement of meeting the Standards of Academic Progress or the policies regarding mandatory Return of Title IV funds.

**Hardship Withdrawal Documentation**

**Personal Statement of Hardship.** The written personal statement of hardship should explain to the Office of Academic Affairs how and/or why the non-academic emergency impacted studies. It is essential that the student provide accurate details about the circumstances surrounding the hardship, date(s) of the hardship event(s), and an account of how the event(s) specifically prevented the completion of coursework. Each page should be initialed and dated, including a full signature on the last page of the document. In addition, the student will provide official documentation supporting his/her hardship. This documentation should be consistent with the student’s personal statement, and all documentation will be verified prior to the rendering of any decision regarding the student’s hardship withdrawal.

**Categories of Hardship and Documentation Requirements**

- **Medical (e.g. physical or psychological emergencies):**
  The student will supply a physician’s report on office letterhead. This document will include the physician’s name, address, phone number, nature of patient’s illness or accident, dates of treatment, prognosis, and the reason they feel that the student can no longer complete his/her coursework. This document must be signed and dated. A physician’s letter is the only approved documentation for hardship withdrawal under the medical category.

- **Personal (e.g. severe medical illness within family, death in the family, arrests, etc.):**
  The student will supply appropriate documentation that builds a case for hardship withdrawal due to personal issues. These documents may include but are not limited to death certificates, obituaries, police reports, or physician’s letters. The student should obtain documents that contain contact information, are dated, and if possible notarized. All documents will be verified as seen fit by the Office of Academic Affairs.
• **Financial (e.g. loss of sole-supporting job, mandatory job changes)**
  The student will supply documentation from an employer or supervisor that clearly states
  the mandatory change and the date that these changes took place or will take place. This
document should contain contact information for an organizational representative that can
verify these changes, preferably a human resource professional. The student’s inability to
have financial aid in place at the start of the term is NOT grounds for hardship withdrawal
due to financial issues.

**SPECIAL NOTE:** Application for a Hardship Withdrawal does not guarantee the student
a grade of “WH.”

**Privacy and Title IX.** Armstrong’s Sexual Misconduct policy, following national guidance from
the Office of Civil Rights, requires that faculty and staff follow Armstrong policy as a “mandatory
reporter.” Personal disclosure of sexual harassment, abuse, and/or violence related experiences
or incidents shared with the faculty or staff member processing Hardship Withdrawals require
that the faculty or staff member inform appropriate Armstrong channels to help ensure that the
student’s safety and welfare, even if the student requests that the disclosure not be shared. These
disclosures include but are not limited to reports of personal relational abuse, relational/domestic
violence, and stalking. I understand that once the information in this hardship withdrawal request
has been disclosed, the recipient may re-disclose it in certain situations. Privacy laws may not
protect the information.

**Withdrawal – Involuntary**

A student may be administratively withdrawn from the university when in the judgment of
the Vice President for Student Affairs and the university physician, if any, and after consultation
with the student’s parents and personal physician, if any, it is determined that the student suffers
from a physical, mental, emotional or psychological health condition which (a) poses a significant
danger or threat of physical harm to the student or to the person or property of others or (b) causes
the student to interfere with the rights of other members of the university community, or with the
exercise of any proper activities or functions of the university or its personnel, or (c) causes the
student to be unable to meet institutional requirements for admission and continued enrollment,
as defined in the student conduct code and other publications of the university.

Except in emergency situations, a student shall, upon request, be accorded an appropriate hearing
before a final decision concerning his or her continued enrollment in the university.
General Education Outcomes

General education outcomes define the intellectual experience that Armstrong State University students complete prior to graduation, regardless of their specific degrees or their career choices. These outcomes emphasize the central body of knowledge and skills that define a “college-educated” person and are grounded in the arts, humanities, mathematics, social and natural sciences. They foster a knowledgeable, curious, critical, and reflective frame of mind in every graduate. The Armstrong State University general education outcomes encourage the broad enhancement of each person’s capabilities and promote the development of skills in communication, problem solving, and lifelong learning needed for individual growth and social improvement. All students must take an exit examination covering those general education outcomes prior to graduation.

The follow student learning outcomes and learning goals are expected of students who complete the university core curriculum:

**Goal A1 (Communications)**
Students will produce organized communication that develops analytical arguments and meets conventional standards of composition.

**Goal A2 (Quantitative)**
Students will demonstrate the ability to use mathematical information and concepts in verbal, numeric, graphical, or symbolic forms to solve problems.

**Goal B (Institutional Options; Ethics and Values, Global Perspectives)**
Students will critically evaluate the relationship between ethical theories and culture, and students will analyze global multicultural issues among diverse realms of societies.

**Goal C (Humanities/Fine Arts)**
Students will critically analyze the meanings of texts or works of art or music.

**Goal D (Natural Sciences)**
Students will demonstrate a collegiate-level understanding of the method by which scientific study is conducted, and, students will accurately evaluate data in scientific reasoning problems.

**Goal E (Social Sciences)**
Students will analyze the complexity of human behavior, considering how historical, economic, political, or social relationships develop, persist, or change.

**Goal I (US Perspectives)**
Students will evaluate the Constitutional principles and related historical, political, social, and institutional developments and governmental processes fundamental to American democracy. Overlay Courses: Area E1

**Goal II (Global Perspectives)**
Students will analyze global multicultural issues among diverse realms of societies. Overlay Courses: Area B2

**Goal III (Critical Thinking)**
Students will effectively analyze and synthesize arguments in support of conclusions. Overlay Courses: Area E3

University Core Curriculum
The semester core curriculum at Armstrong State University is required of all baccalaureate students. The core recognizes three broad categories of students: non-science majors, science majors, and clinical health majors. Major-specific courses are in Area F of the core and are different for each major. The majors in each classification are as follows:

<table>
<thead>
<tr>
<th>Non-Science Majors</th>
<th>Science Majors</th>
<th>Clinical Health Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Applied Physics</td>
<td>Comm. Sciences &amp; Disorders</td>
</tr>
<tr>
<td>Business Economics</td>
<td>Biochemistry</td>
<td>Medical Laboratory Science</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>Biology</td>
<td>Nursing</td>
</tr>
<tr>
<td>Economics</td>
<td>Chemistry</td>
<td>Radiologic Sciences</td>
</tr>
<tr>
<td>Education</td>
<td>Computer Science</td>
<td>Respiratory Therapy</td>
</tr>
<tr>
<td>English</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Rehabilitation Sciences</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>Psychology (B.S.)</td>
<td></td>
</tr>
<tr>
<td>Gender and Women's Studies</td>
<td>RETP (pre-engineering)</td>
<td></td>
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<tr>
<td>Health Science</td>
<td></td>
<td></td>
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<tr>
<td>History</td>
<td></td>
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<tr>
<td>Information Technology</td>
<td></td>
<td></td>
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<tr>
<td>Law and Society</td>
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<tr>
<td>Liberal Studies</td>
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<tr>
<td>Music</td>
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<tr>
<td>Political Science</td>
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<tr>
<td>Psychology (B.A.)</td>
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<tr>
<td>Spanish</td>
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<tr>
<td>Theatre</td>
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</tbody>
</table>

Core Curriculum Notes.
- Pre-calculus is required for majors in applied physics, biology, chemistry, computer science, mathematics, radiologic sciences (radiation therapy track), and rehabilitation sciences.
- Calculus is required for engineering studies students.
- For non-science majors, the two science courses do not have to be in sequence, and one of the science courses may be a non-lab course.
- Science majors must take a lab science sequence and a specified math course; statistics is required for biology, business economics (Bachelor of Science), psychology (Bachelor of Science), and rehabilitation sciences majors; calculus I is required for majors in applied physics, chemistry, computer science, and mathematics; calculus II is required for engineering majors.
- Clinical health majors must take a biology, chemistry, or physics sequence; the third course must be statistics. (See Core Area D, Option IIB).
- If a student who has not yet declared a major is contemplating a science or clinical health major, it is recommended that he or she take the area D for that science or clinical health major.
- The legislative history/constitution requirement can be met by a single course - HIST/POLS 1100.
- A course may be used only once to satisfy a degree requirement in core areas A-E.
- Students who do not complete Core Area A requirements within 30 earned credit hours will be required to enroll in the appropriate course(s) to complete Area A their subsequent term of enrollment.
## Core Area A

### Essential Skills 9 hours

1. **Communication Skills**
   - ENGL 1101 or ENGL 1101H - Composition I
   - ENGL 1102 or ENGL 1102H - Composition II

2. **Quantitative Skills** 3 hours
   - One course selected from:
     - MATH 1001 - Quantitative Skills and Reasoning
     - MATH 1111 - College Algebra
     - MATH 1113 - Pre-calculus Mathematics
     - *Minimum requirement for applied physics, biochemistry, biology, chemistry, computer science, mathematics, and rehabilitation sciences majors*
     - MATH 1161 or 1161H - Calculus I
     - *Minimum requirement for engineering students*

## Core Area B

### Institutional Options 4-5 hours

1. **Ethics and Values** 2-3 hours
   - One course selected from:
     - CHEM 2600 - Ethical Theories and Moral Issues in the Sciences
     - CRJU 2020 - Ethical Theories and Moral Issues in Criminal Justice
     - ENGL 2000 - Ethics and Values in Literature
     - ETHC 2000 - Interdisciplinary Ethics and Values
     - GWST 2101 - Ethics, Values, and Gender
     - HIST 2000 - Ethics and Values in History
     - HONS 2100 - Honors Topics in Ethics and Values
     - PHIL 2030 - Introduction to Ethics and Contemporary Moral Philosophy
     - POLS 1200 - Ethical Theories and Moral Issues in Government
     - SOCI 2500 - Ethics and the Social World

2. **Global Perspectives** 2-3 hours
   - One course selected from:
     - ANTH 1150 - Global Perspectives in Anthropology: Peoples of the World
     - CHEM 2200 - Science, Technology, and the Modern World
     - CRJU 2010 - Universal Justice
     - ECON 2050 - Africa and the Diaspora
     - EURO 2000 - European Union
     - FREN 1002 - Elementary French II
     - GEOG 1100 - World Regional Geography
     - GEOG 2120 - Cultural Geography
     - GRMN 1002 - Elementary German II
     - GWST 2200 - Gender in Global Contexts
     - HIST 1111 - Civilization I
     - HIST 1112 or HIST 1112H - Civilization II
     - HIST 2100 - The African Diaspora
     - HLPR 2010 - Culture, Illness, Diagnosis and Treatment
     - HONS 2000 - Honors Topics in Global Perspectives
     - POLS 1150 - World Politics
     - POLS 2290 - Foundations of International Relations
     - PSYC 2300 - Global Perspectives in Developmental Psychology
     - RELI 2100 - World Religions
Core Area C

Humanities, Fine Arts, and Ethics 6 hours

1. Literature or Philosophy ................................................................. 3 hours
   One course selected from:
   ENGL 2100 or ENGL 2100H - Literature and Humanities
   FREN 2001 - Intermediate French I
   FREN 2002 - Intermediate French II
   GRMN 2001 - Intermediate German I
   GRMN 2002 - Intermediate German II
   PHIL 2010 - Introduction to Philosophy
   PHIL 2030 - Introduction to Ethics and Contemporary Moral Philosophy
   SPAN 2001 - Intermediate Spanish
   SPAN 2002 - Intermediate Spanish II

2. Art, Music or Theatre ................................................................. 3 hours
   One course selected from:
   ARTS 1100 - Art Appreciation
   ARTS/MUSC 1270 - World Art and Music
   ARTS 2710 - Art History I
   ARTS 2720 - Art History II
   MUSC 1100 - Music Appreciation
   THEA 1100 - Theatre Appreciation
   THEA 1200 - Introduction to Theatre
   THEA 2410 - Oral Interpretation

Core Area D

Math, Science & Technology 10-11 hours

Option I. Non-Science Majors:
1. One lab science course selected from: ........................................ 4 hours
   BIOL 1103 (and lab) - Concepts of Biology
   BIOL 1107/1107L or 1107H/1107A - Principles of Biology I
   CHEM 1151/1151L - Survey of Chemistry I
   CHEM 1211/1211L - Principles of Chemistry I and lab
   GEOL 2010H - Honors Physical Geology
   PHSC 1211/1211L - Physical Environment
   PHYS 1111K - Introductory Physics I
   PHYS 2211K - Principles of Physics I
   SCIE 1212/1212L - Chemical Environment

2. One science course selected from: .............................................. 3-4 hours
   ASTR 1010 - Astronomy of the Solar System
   ASTR 1020 - Stellar and Galactic Astronomy
   BIOL 1103 (and lab) - Concepts of Biology
   BIOL 1107/1107L or 1107H/1107A - Principles of Biology I
   BIOL 1108 (and lab) or 1108H (and lab) - Principles of Biology II
   BIOL 1120 - The Diversity of Life
   BIOL 1130 - Human Biology
   BIOL 1140 - Environmental Biology
   CHEM 1151/1151L (lab optional) - Survey of Chemistry I
   CHEM 1152/1152L (lab optional) - Survey of Chemistry II
CHEM 1211/1211L - Principles of Chemistry I and lab
CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II and lab
ENGR 1112 - Introduction to Scientific Modeling and Simulation
GEOL 2010 or GEOL 2010H - Introduction to Physical Geology
PHSC 1211/1211L (lab optional) - Physical Environment
PHYS 1111K - Introductory Physics I
PHYS 1112K - Introductory Physics II
PHYS 2211K - Principles of Physics I
PHYS 2212K - Principles of Physics II
SCIE 1000 - Introduction to Scientific Inquiry
SCIE 1212/1212L (lab optional) - Chemical Environment

3. One course in mathematics, science, or technology chosen from:............................ 3 hours
ASTR 1010 - Astronomy of the Solar System
ASTR 1020 - Stellar and Galactic Astronomy
BIOL 1103 (and lab) - Concepts of Biology
BIOL 1107/1107L or 1107H/1107A - Principles of Biology I
BIOL 1108 (and lab) or 1108H (and lab) - Principles of Biology II
BIOL 1120 - The Diversity of Life
BIOL 1130 - Human Biology
BIOL 1140 - Environmental Biology
CHEM 1151/1151L (lab optional) - Survey of Chemistry I
CHEM 1152/1152L (lab optional) - Survey of Chemistry II
CHEM 1211/1211L - Principles of Chemistry I and lab
CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II and lab
PHYS 1010 - The Physics of Sports
PHYS 1111K - Introductory Physics I
PHYS 1112K - Introductory Physics II
PHYS 2211K - Principles of Physics I
PHYS 2212K - Principles of Physics II
SCIE 1000 - Introduction to Scientific Inquiry
SCIE 1212/1212L (lab optional) - Chemical Environment

Option IIA. Science Majors:
1. Laboratory science sequence..................................................................................... 8 hours
BIOL 1107/1107L or 1107H/1107A and BIOL 1108 or 1108H (and labs) – Principles of Biology I/II
CHEM 1211/1211L – Principles of Chemistry I and lab; and either CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II and lab
PHYS 1111K/1112K - Introductory Physics I/II
PHYS 2211K/2212K - Principles of Physics I/II

2. One course in mathematics, science, or technology............................................. 3 hours
MATH 1161 or 1161H - Calculus I
Required for applied physics, chemistry, computer science, and mathematics majors
Minimum requirement for biochemistry majors
MATH 2072 - Calculus II
Required for engineering students
MATH 2200 - Elementary Statistics
*Required for biology, psychology (Bachelor of Science), and rehabilitation sciences majors*

**Option IIB. Clinical Health Majors:**
1. Laboratory science sequence ..................................................................................... 8 hours
   - BIOL 1107/1107L and BIOL 1108 (and lab) – Principles of Biology I/II
   - CHEM 1151/1151L and CHEM 1152/1152L - Survey of Chemistry I/II
   - CHEM 1211/1211L and CHEM 1212/1212L - Principles of Chemistry I/II and labs
   - PHYS 1111K/1112K - Introductory Physics I/II
   - PHYS 2211K/2212K - Principles of Physics I/II
2. One course in mathematics, science, or technology .................................................. 3 hours
   - MATH 2200 - Elementary Statistics

**Core Area E**

**Social Sciences** 12 hours

1. American and Georgia History and Constitution ........................................ 3 hours
   - HIST/POLS 1100 or 1100H - Political History of America and Georgia
2. World Civilization ......................................................................................... 3 hours
   One course selected from:
   - HIST 1111 or 1111H - Civilization I
   - HIST 1112 or 1112H - Civilization II
3. Social Sciences ............................................................................................ 3 hours
   One course selected from:
   - ANTH 1102 - Introduction to Anthropology
   - ECON 1101 - Survey of Economics
   - ECON 2105 - Principles of Macroeconomics
   - ECON 2106 - Principles of Microeconomics
   - PSYC 1101 or PSYC 1101H - Introduction to Psychology
   - SOCI 1101 - Introductory Sociology
4. History or Social Sciences ........................................................................... 3 hours
   One course selected from:
   - AFAS 2000 - Introduction to African American Studies
   - ANTH 1102 - Introduction to Anthropology
   - ECON 1101 - Survey of Economics
   - ECON 2105 - Principles of Macroeconomics
   - ECON 2106 - Principles of Microeconomics
   - GEOG 2120 - Cultural Geography
   - GWST 1101 - Introduction to Gender and Women’s Studies
   - HIST 1111 - Civilization I
   - HIST 1112 or HIST 1112H - Civilization II
   - HIST 2111 - History of America to 1877
   - HIST 2112 - History of America since 1865
   - POLS 2100 - Introduction to Political Science
   - PSYC 1101 or PSYC 1101H - Introduction to Psychology
   - SOCI 1101 - Introductory Sociology

**Core Area F**

**Courses Suitable to the Major** ........................................................................ 18 hours

- Physical Education ............................................................................................... 3 hours
- First-Year Seminar ............................................................................................... 1 hour
GENERAL EDUCATION OUTCOMES

State Requirement In History and Constitution

By state law, every student who receives a diploma from a school supported by the state of Georgia must demonstrate proficiency in United States history and constitution and in Georgia history and constitution. Students at Armstrong State University may demonstrate such proficiency in one of the following ways:

- successfully complete HIST/POLS 1100 at Armstrong;
- successfully complete a course that equates to HIST/POLS 1100 at another University System of Georgia (USG) institution;
- successfully complete a course (or combination of courses) in American government and history which meets the state requirement at another USG institution;
- successfully complete a course (or combination of courses) in American government and history at a non-USG institution and pass a local test on the Georgia constitution;
- by earning an acceptable score on an institutional or standardized test as follows:
  - U.S./Ga. constitution: AP - Government and Politics or CLEP - American Government and pass the Armstrong test on the Georgia constitution.
  - U.S./Ga. history: AP - U.S. History or CLEP - History of the U.S. I or History of the U.S. II.

Requirements for Bachelor of Arts and Bachelor of Science Degrees

Requirements for major programs leading to baccalaureate degrees are described in the departmental listings. For baccalaureate degrees, a minimum of 120 semester hours, exclusive of the required physical education course(s) and first-year seminar, is required for graduation. Exit exams in the major and in general education are also required. All students in baccalaureate programs must complete the 60-hour core curriculum requirement (as listed under University Core Curriculum), along with the 3-hour physical education requirement and 1-hour first-year seminar.

Degree Programs

The degree programs of Armstrong State University are presented below by college and department. Minors and certificate programs are listed in their sponsoring departments. There are also interdisciplinary degrees, certificates, and minors, offered as a collaborative initiative by two or more departments. See the sections on Interdisciplinary Degree Programs and Interdisciplinary Certificates and Minors for detailed information on these programs.

The university is organized into four colleges, each administered by a dean, and two non-school affiliated departments (military and naval science, listed under Special Programs). The degrees offered by Armstrong are as follows:

College of Education

<table>
<thead>
<tr>
<th>Degree</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science in Education in:</td>
<td></td>
</tr>
<tr>
<td>Early Childhood Education: Child and Family Studies (non-certification)</td>
<td>Childhood &amp; Exceptional Student Education</td>
</tr>
<tr>
<td>Early Childhood Education (PK-5)</td>
<td>Childhood &amp; Exceptional Student Education</td>
</tr>
<tr>
<td>Health &amp; Physical Education: Recreation and Coaching (non-certification)</td>
<td>Secondary, Adult, and Physical Education</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>Secondary, Adult, and Physical Education</td>
</tr>
<tr>
<td>Secondary Education: English, History, Mathematics, Science</td>
<td>Secondary, Adult, and Physical Education</td>
</tr>
<tr>
<td>Special Education</td>
<td>Childhood &amp; Exceptional Student Education</td>
</tr>
<tr>
<td>Master of Arts in Teaching in:</td>
<td></td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Childhood &amp; Exceptional Student Education</td>
</tr>
</tbody>
</table>
Secondary Education: English, History, Mathematics, Science
Special Education General Curriculum (P-12)

Master of Education in:
Adult Education
Curriculum and Instruction
Early Childhood Education
Reading Specialist Education
Special Education

Adolescent and Adult Education
Secondary, Adult, and Physical Education
Childhood & Exceptional Student Education
Childhood & Exceptional Student Education
Childhood & Exceptional Student Education

Other Degree Programs. The College of Education, working with the College of Liberal Arts and the College of Science and Technology, provides baccalaureate degrees with teacher certification in the secondary fields of art, mathematical sciences, and music. See the departmental sections for degree particulars.

College of Health Professions

Degree
Associate of Science with tracks in:
  Communication Sciences and Disorders
  Health Sciences
  Medical Laboratory Science
  Nursing
  Radiologic Sciences
  Respiratory Therapy

Bachelor of Science in:
  Communication Sciences and Disorders
  Medical Laboratory Science
  Nursing
  Radiologic Sciences
  Rehabilitation Sciences
  Respiratory Therapy

Bachelor of Health Science

Master of Health Services Administration

Master of Public Health

Master of Science in:
  Communication Sciences and Disorders
  Nursing
  Sports Medicine

Doctor of Physical Therapy

College of Liberal Arts

Degree
Associate of Arts
Associate of Science with track in:
  Business
Associate of Applied Science
Bachelor of Arts in:
  Art
  Economics
  English
  French: World Languages and Culture
  Gender and Women's Studies
  History

Department
Interdepartmental
Economics
Criminal Justice, Social & Political Science
Art, Music, and Theatre
Economics
Languages, Literature, and Philosophy
Interdisciplinary
History
<table>
<thead>
<tr>
<th>Degree</th>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td><strong>Associate of Science with track in:</strong></td>
<td></td>
</tr>
<tr>
<td>Cyber Security</td>
<td>Computer Science &amp; Information Tech.</td>
</tr>
<tr>
<td>Engineering Studies</td>
<td>Engineering Studies</td>
</tr>
<tr>
<td><strong>Bachelor of Arts in:</strong></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry and Physics</td>
</tr>
<tr>
<td>Psychology</td>
<td>Psychology</td>
</tr>
<tr>
<td><strong>Bachelor of Information Technology</strong></td>
<td>Computer Science &amp; Information Tech.</td>
</tr>
<tr>
<td><strong>Bachelor of Science in:</strong></td>
<td></td>
</tr>
<tr>
<td>Applied Physics</td>
<td>Chemistry and Physics</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>Chemistry and Physics</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry and Physics</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science &amp; Information Tech.</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Mathematical Sciences w/Teacher Certi</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Psychology</td>
<td>Psychology</td>
</tr>
<tr>
<td><strong>Master of Science in:</strong></td>
<td></td>
</tr>
<tr>
<td>Computer and Information Science</td>
<td>Computer Science &amp; Information Tech.</td>
</tr>
</tbody>
</table>
Graduate Studies

Philosophy, Mission and Goal

Graduate education is an integral component of Armstrong State University. Armstrong's graduate programs provide a graduate education and applied research experiences for students in selected disciplines. The faculty and students create an atmosphere of academic scholarship and investigation which provides graduates with values and skills in their disciplines.

The goal of graduate education at Armstrong State University is to produce graduates with advanced knowledge in their fields so that they are prepared to address issues of significance and provide service to the communities that they serve.

Degrees

Armstrong State University is authorized to grant the following graduate degrees:

Master of Arts
    History
    Professional Communication and Leadership
    Teaching
        Early Childhood Education
    Secondary Education: English, History, Mathematics, Science
    Special Education General Curriculum (P-12)

Master of Education
    Adult Education
    Curriculum and Instruction
    Early Childhood Education
    Reading Specialist Education
    Special Education

Master of Health Services Administration

Master of Public Health

Master of Science
    Communication Sciences and Disorders
    Computer and Information Science
    Criminal Justice
    Nursing
    Sports Medicine

Doctor of Physical Therapy

Admission to Graduate Study

Graduates of colleges or universities accredited by a regional accrediting association may apply for admission to Graduate Studies. Admission is restricted to those students whose academic records indicate that they can successfully complete graduate work. Please refer to the Armstrong State University Graduate Catalog for additional information on admission procedures and requirements. The graduate catalog also contains information on graduate programs, courses, faculty, financial aid opportunities, and academic policies.
College of Education
Janet A. Buckenmeyer, Dean
Cynthia Bolton-Gary, Assistant Dean

Accreditation

All teacher education programs at Armstrong State University are approved by the Georgia Professional Standards Commission (GaPSC) and accredited by the National Council for Accreditation of Teacher Education (NCATE) [Council for the Accreditation of Educator Preparation]. Acceptance into or completion of a teacher preparation program through the College of Education does not guarantee employment by a school district nor licensure by the Professional Standards Commission. Some course or internship fees and program revisions due to modifications in certification requirements are subject to change without notice.

Conceptual Framework

The College of Education and those partners who compose the Educator Preparation Program share the vision established by the conceptual framework. It guides their efforts as they work collaboratively to develop highly qualified teachers who are prepared to educate diverse learners. The conceptual framework is based upon seven tenets: respect for diversity, the essentials of professionalism, the importance of collaboration, the value of authentic assessment, the merit of reflection, the value of technology, and essential pedagogical and content knowledge. The shared vision and seven tenets provide direction for programs of study, instruction, scholarship, and service. Armstrong-prepared educators exemplify the highest qualities of character and ethical behaviors while demonstrating the dispositions, knowledge, and skills required to succeed in the modern classroom.

Philosophy and Goals

The College of Education offers a variety of degree programs designed to produce prepared, reflective educators committed to excellence in the profession and the learning of all students. All degree programs in the College of Education are guided by specific objectives reflecting university goals. These objectives include providing prospective teachers with the following: proficiency in the content of their chosen teaching fields; learning theory and methodology necessary for successful implementation of classroom plans and procedures; abilities and skills to offer appropriate educational opportunities to students from diverse cultural and economic backgrounds; abilities and skills to enable them to meet the special needs of exceptional children; and a professional and educational atmosphere conducive to the development of the highest qualities of character, commitment, and professional competence. Prepared, reflective educators who exemplify the essentials of professionalism, demonstrate a respect for diversity, recognize the importance of collaboration, value the need for authentic assessment, realize the merit of reflection, and value technologies personify the ideals of the College of Education’s conceptual framework.

Organization and Degrees

The College of Education includes the department of Childhood and Exceptional Student Education and the department of Secondary, Adult, and Physical Education.

Bachelor of Science in:
- Early Childhood Education: Child and Family Studies (non-certification)
- Early Childhood Education with Teacher Certification (P-5)
- Health and Physical Education: Recreation and Coaching (non-certification)
- Health and Physical Education with Teacher Certification (P-12)
- Secondary Education (6-12)
- Special Education
Master of Arts in Teaching in:
   Early Childhood Education
   Secondary Education: English, History, Mathematics, Science
   Special Education General Curriculum (P-12)
Master of Education in:
   Adult Education
   Curriculum and Instruction
   Early Childhood Education
   Reading Specialist Education (P-12)
   Special Education
Post-Baccalaureate Certificate in:
   Special Education Transition Specialist Endorsement
   Reading Endorsement
The degrees offered in the College of Education in conjunction with the College of Liberal Arts and the College of Science and Technology are as follows:
   Bachelor of Music Education (P-12)
   Bachelor of Science in:
      Art Education (P-12)
      Mathematical Sciences with Teacher Certification (6-12)

Policies and Procedures

**Academic Advisement.** Students assume primary responsibility for knowledge of and compliance with program requirements. A program of study does not become official until it is signed by both the student and academic advisor with the approval of the department head. Program of study forms will be filed in the appropriate departments, with copies provided to students.

**Admission to Candidacy.** Students wishing to pursue teacher education leading to certification must apply for Admission to Candidacy within the College of Education. Application forms are available in the Student Services office or online. The standards of the College of Education are aligned with the standards of the Georgia Professional Standards Commission for certification and include a criminal background check. College of Education standards also incorporate essential functions for teaching and a code of ethics and expected behavior for students in the Educator Preparation Program. Each degree program may have additional discipline-related items required for admission. If a student is denied Admission to Candidacy, his/her program completion will be delayed. In order to be Admitted to Candidacy, students must complete and submit the application and supplementary documentation required by the semester deadline as printed below:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>February 15</td>
</tr>
<tr>
<td>Fall</td>
<td>May 15</td>
</tr>
<tr>
<td>Spring</td>
<td>September 15</td>
</tr>
</tbody>
</table>

**General Requirements for Admission to Candidacy:**

1. An overall GPA of 2.5 or higher unrounded.
2. Successful completion of ENGL 1101, ENGL 1102, MATH Area A (Early Childhood Majors must take MATH 2008), EDUC 2110, EDUC 2120, EDUC 2130, with a grade of “C” or higher.
3. Satisfaction and evidence of Georgia Assessment for the Certification of Educators (GACE) Program Admission Assessment or may be exempt from this requirement with qualifying scores on the SAT or ACT.
5. Completion of two (2) disposition assessments.
6. Evidence of professional tort liability insurance valid for a period no less than three (3) years from the date of Admission to Candidacy.
In addition to the criteria above, the following is required for the indicated department or program of study:

**Early Childhood Education**

**Field Experiences.** Many courses in the College of Education require students to participate in field experiences. These are conducted off-campus and students must arrange their own transportation to their assigned school site. The following requirements must be met before students may participate in a field experience:
   1. Evidence of professional tort liability insurance valid for a period no less than three (3) years from the date of Admission to Candidacy.
   2. Georgia Professional Standards Commission Pre-Service Certificate (includes criminal background check requirement).

**Clinical Internship.** Internship II, the culminating activity of the professional sequence, is performed in selected off-campus school centers. Completed applications must be submitted to the department head of the respective program one semester prior to the internship semester. School placement is arranged jointly by the university and the participating school system; students receive letters of assignment. Students are required to adhere to The Georgia Code of Ethics for Educators, established policies and procedures of the cooperating school system in addition to those policies and procedures established by the university. Orientation will be held at the beginning of the semester in which internship is scheduled. The following requirements must be met before students may enroll in clinical internship:
   1. Admission to Candidacy.
   2. Successful completion of all coursework in the degree program with a cumulative 2.5 unrounded grade point average on all courses attempted, and a grade of "C" or better in all courses in the teaching field, professional sequence, concentration, and related electives.
   3. Recommendation by the College of Education department faculty. Students in a secondary field or a P-12 field housed in the College of Liberal Arts or the College of Science and Technology must also secure a recommendation from the department that houses the major. Positive assessment of dispositions must be completed through the LiveText system.
   4. Passing scores on all GACE content area examinations.
   5. Georgia Professional Standards Commission Pre-Service Certificate.
   6. Payment of $325.00 clinical internship fee (assessed with tuition and fees).
   7. Evidence of professional tort liability Insurance valid for a period of three (3) years from the date of Admission to Candidacy.
   8. Official program of study signed by the student’s advisor indicating completion of all courses.
   9. Faculty review of content pedagogy assessment through the LiveText system.

Students who are unsuccessful (receiving a "U" or "W") may apply to intern one additional semester only, after completing the prescribed Plan of Improvement, as outlined by the Director of Field Experiences, Clinical Placements and Partnerships.

College of Education candidates for Internship II who complete their program of study in initial certification programs but do not complete Internship II, will be allowed no more than five additional academic semesters (including summers) following the completion of their coursework to complete their internship. If a candidate is unable to complete the internship by the fifth semester following completion of coursework, the candidate will need to reapply to the university, present passing scores on appropriate GACE content exams, and be subject to any changes to the program of study and/or admission requirements.

**Transfer of Credit.** Accreditation rules and regulations for Educator Preparation Programs may limit the potential of transferring credits into specific certification fields. A transcript analysis by an Educator Preparation Program academic advisor would be required.

**Academic and Admissions Appeals.** The Educator Preparation Program (EPP) has an Academic and Admission Appeals committee that reviews appeals. To view the appeal procedure visit the college’s “Forms” website.
**Academic Probation and Dismissal.** In addition to the University’s academic probation and dismissal regulations, the College of Education Educator Preparation Program maintains separate standards for academic probation and dismissal for compliance with the accreditation guidelines.

Eligibility to candidacy in the Armstrong College of Education Educator Preparation Program (EPP) requires a minimum Grade Point Average (GPA) for undergraduates is 2.5. Candidates accepted into an educator preparation program (EPP) must maintain a minimum GPA of 2.5 throughout the program of study. For graduate students seeking an MAT, MEd, or Endorsement, the minimum GPA is 3.0. If a candidate’s grades fall below the minimum, candidates will be notified by that they are on Probation and have one (1) semester in which to bring their grades up to the minimum GPA. In addition, a Candidate Improvement Plan will be developed. If a candidate is able to bring up their grades, they will be restored to full candidacy. If they are unable to bring up their GPA, they will be Suspended from the College of Education.* If a candidate who has been suspended later attains the minimum GPA, they can reapply to the College of Education in order to proceed with their candidacy. GPAs will be checked at the end of each semester to chart the progression and qualifications of candidates throughout the EPP.

*As of Fall 2015, the Pre-Service Certificate will be revoked if candidates are suspended from the EPP. Students reapplying to the College of Education will also have to reapply for the Pre-Service Certificate and meet all eligibility requirements.

**Program Completion.** In order to continue in a program of study a student must maintain continuous enrollment. Failure to enroll for three (3) consecutive semesters will result in the need to reapply to the University. Failure to complete a program of study within five (5) consecutive semesters will result in development of a new program of study.

**Graduation.** Students are required to submit to their academic advisor two semesters prior to graduating the following items: a completed application for graduation, an updated copy of their transcripts, and a current official program of study form. Applications will be checked and approved by the appropriate department head(s).

**Certification.** To be recommended for a certificate of eligibility, candidates must complete the requirements for an approved Educator Preparation Program with an approved program of study, must satisfy the Georgia Assessment for the Certification of Educators (GACE) Program Admission Assessment. These requirements include, but are not limited to: at least 30 credit hours of education courses taken in the Educator Preparation Program, the passing of the ethics assessment, content pedagogy assessment, GACE content area examination in the certificate field, and any additional program specific items.

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**CHILDHOOD AND EXCEPTIONAL STUDENT EDUCATION**

**Faculty**

John Hobe, Department Head
Kelly Brooksher
Beth Childress
Nedra Cossa
Ardyth Foster
Barbara Hubbard
Anne Katz
Jackie Hee-Young Kim
Richard Krauss

Robert Loyd
Linda Ann McCall
Glenda Ogletree
Lesley Roessing
Barbara Serianni
Patricia Wachholz
Elizabeth Williams

**General Information**

The Department of Childhood and Exceptional Student Education offers a Bachelor of Science in Early Childhood Education with teacher certification (P-5) and the Bachelor of Science in Special Education (P-12), with concentrations in Mathematics, English, History and Science. The Department also offers a non-certification track in Early Childhood Education for students who are interested in serving children and families in areas outside the traditional school classroom.
Students pursuing a degree from the Armstrong Educator Preparation Program should refer to the College of Education section of this catalog for specifics on policies and procedures pertinent to their program of study.

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EARLY CHILDHOOD EDUCATION**

**Track 1: Early Childhood Education with Teacher Certification**

**A. General Requirements**
- Core Areas A, B, C, D.I, and E ................................................................. 42 hours
- Core Area F ......................................................................................... 18 hours
  - EDUC 2110 Investigating Critical and Contemporary Issues
  - EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
  - EDUC 2130 Exploring Learning and Teaching
  - ISCI 2001 Life/Earth Science for Early Childhood Educators
  - ISCI 2002 Physical Science for Early Childhood Educators
  - MATH 2008 Foundations of Numbers and Operations
- Physical Education .................................................................................. 3 hours
- First-Year Seminar .................................................................................. 1 hour

**B. Major Field Courses** ........................................................................... 47 hours
- EDUC 3100 Technology Applications for Teachers
- EDUC 3200 Curriculum, Instruction, and Assessment
- EDUC 3300 Educating Students with Disabilities in the General Education Classroom
- ECUG 3040 Childhood Development from Prenatal Period to Adolescence
- ECUG 3060 Language Arts: Oral Language, Writing, Spelling And Grammar
- ECUG 3071 Teaching Children’s Literacy
- ECUG 3072 Teaching of Reading
- ECUG 3750 Internship I Pre-Student Teaching
- ECUG 4075 Teaching of Social Studies and Science
- ECUG 4085 Teaching of Mathematics
- ECUG 4090 Classroom Management
- ECUG 4300 Language Arts Assessment and Modification
- ECUG 4750 Internship II Student Teaching

**C. Related Field Courses** ........................................................................ 13 hours
- MATH 3911 Algorithms and Number Systems: A Laboratory Approach
- MATH 3912 Geometry and Data Analysis: A Laboratory Approach
- MATH 5911U Topics in Mathematics for Educators
- PEEC 3200 Health and Physical Education for the Elementary School Teacher
- ARTS 3200 Art and the Child
  - or
  - MUSC 3200 Music for the Elementary Teacher

**Total Semester Hours** ........................................................................... 124 hours

**D. Georgia Assessment for the Certification of Educators (GACE) Program Admission Assessments or exemption scores; Admission to Candidacy; evidence of professional tort liability insurance valid for a period no less than three (3) years from the date of Admission to Candidacy or exemption; GACE content area examinations passed; admission to Internship II; Georgia Professional Standards Commission Pre-Service Certificate; content pedagogy assessment; current CPR (adult, child, & infant); First Aid certification.

**Track 2: Child and Family Studies**

**A. General Requirements**
- Core Areas A, B, C, D.I, and E ................................................................. 42 hours
Core Area F ................................................................. 18 hours
EDUC 2110 Investigating Critical and Contemporary Issues
EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
EDUC 2130 Exploring Learning and Teaching
ISCI 2001 Life/Earth Science for Early Childhood Educators
ISCI 2002 Physical Science for Early Childhood Educators
MATH 2008 Foundations of Numbers and Operations

Physical Education ......................................................... 3 hours
First-Year Seminar ......................................................... 1 hour

B. Major Field Courses .................................................. 48 hours
SOCI 3150 Sociology of the Family
CEUG 3012 Language Acquisition
ECUG 3040 Childhood Development from Prenatal Period to Adolescence
EDUC 3100 Technology Applications for Teachers
EDUC 3240 Literature for Children and Adolescents
EDUC 3300 Educating Students with Disabilities
ENGL 3720 Business and Technical Communication
PEHM 3200 Motor Development and Learning
PEHM 4090 Health Education Topics
PUBH 5500U Nutrition
EDUC 4590 Working with Families
EDUC 3750 Community Internship I
EDUC 4750 Community Internship II

C. Related Field Courses .................................................. 12 hours
SOCI 1101 Introductory Sociology (if not taken in Core Area E)
9 credit hours from the following list:
  COMM 3050 Interpersonal and Small Group Communication
  CSDS 4050 Intercultural Communication
  HSCP 2000 Ethical Theories/Moral Issues in Health
  HSCP 4010 Health and Human Development
  PEHM 3090 Basic Games, Dance, and Rhythmic Activities
  PSYC 2950 Lifespan Developmental Psychology
  PSYC 1200 Drugs and Behavior
  PUBH 5570U Women and Minority Health Issues
  SOCI 3200 Racial and Ethnic Minorities
  SOCI 3500 Social Problems
  THEA 3030 Creative Dramatics and Children’s Theatre

Total Semester Hours .................................................... 124 hours

D. Exit Exam; evidence of professional tort liability insurance; admission to community
Internship II; current CPR (adult, child & infant); First Aid certification.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION IN SPECIAL EDUCATION

*Bachelor of Science in Education in Special Education program is not currently accepting
new students.

A. General Requirements
Core Areas A, B, C, D, and E ........................................... 42 hours
Area F ................................................................. 18 hours
EDUC 2110 Investigating Critical and Contemporary Issues in Education
EDUC 2120 Exploring Socio-cultural Perspectives in Diversity in Education Contexts
EDUC 2130 Exploring Learning and Teaching
CEUG 2100 Introduction to Students with Disabilities
SPED 2001 The Field of Special Education: Past and Future
CEUG 3012 Language Acquisition
Physical Education ................................................................. 3 hours
First-Year Seminar ...................................................................... 1 hour

B. Major Field Courses ................................................................. 36 hours
   SPED 4004 Curriculum and Instructional Strategies in the Content Areas
   SPED 4005 Strategies for Developing Social Skills and Behavioral Controls
   SPED 4740 Internship I: Directed Field Based Research
   SPED 4750 Internship II: Student Teaching
   SPED 5010U Technology for the Special Educator
   SPED 5130U Assessment in Special Education
   SPED 5232U Teaching Mathematics and Disabilities
   SPED 5231U Teaching Reading and Disabilities
   SPED 5400U Transition Planning

C. Related Content for Highly Qualified ........................................... 21
   21 credit hours in one of the following content areas, with major departmental approval:
   English, History, Mathematics, or Science.

D. Program Related Courses .............................................................. 3
   Math 2200 Elementary Statistics

Total Semester Hours ........................................................................ 124

E. Georgia Assessment for the Certification of Educators (GACE) Program Admission
   Assessments or exemption scores; Admission to Candidacy; evidence of professional
   tort liability insurance valid for a period no less than three (3) years from the date
   of Admission to Candidacy or exemption; GACE content area examinations passed;
   admission to Internship II; Georgia Professional Standards Commission Pre-Service
   Certificate; content pedagogy assessment.

SECONDARY, ADULT, AND PHYSICAL EDUCATION

Faculty
Regina Rahimi, Interim Department Head
Kathleen Burke-Fabrikant
Ela Kaye Eley
Patricia Holt
Brenda Logan
Jane Lynes
Anthony Parish
Lynn Roberts

Michael Sergi
Jana Underwood
Rebecca Wells
Ellen Whitford
McKenzie Williams
Greg Wimer

General Information
The Department of Secondary, Adult, and Physical Education offers a bachelor of science with
tracks in health and physical education (a non-certification option for students who wish to work
with children in athletic programs outside the traditional school classroom) and health and physical
education with teacher certification (P-12) as well as a bachelor of science in secondary education
(6-12). Students seeking certification in secondary education must select two (2) of the following
concentration fields: English/Language Arts, Mathematics, History/Social Studies, or Science.

Students pursuing a degree from the Armstrong Educator Preparation Program should refer to
the College of Education section of this catalog for specifics on policies and procedures pertinent
to their program of study.

Special Programs
Physical Education Service Program. The department provides a wide variety of offerings
emphasizing life-long physical activities; basic skills and appreciation of recreational sports and
activities; and certification in aquatics and safety, first aid and CPR. The department also provides
basic instruction in personal health practices and behaviors. In addition, the department provides the physical education courses required of all Armstrong students. During the freshman and sophomore years, all students should complete PEBC 2001 (Concepts of Personal Health and Fitness), PEBC 2000 (Concepts of Fitness) plus one semester hour of a physical education activity course or three semester hours of physical education activity courses. Students unable to participate in the regular program must plan an alternative program with the Department Head.

**Emphasis Area**

Coaching Emphasis ........................................................................................................ 18 hours

1. PEHM 2100 Athletic Health Care: Prevention, Recognition, and Care of Sport Injuries
2. Two courses chosen from: PEEC 3120, PEEC 3130, PEEC 3140
3. 12 credit hours chosen from: PEHM 2283, PEHM 3010, PEHM 3200, PEHM 3300, PEHM 3500, PEHM 3700, PEHM 4000, PEHM 4090, PUBH 5550U.

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN HEALTH AND PHYSICAL EDUCATION**

Track 1: Health and Physical Education with Teacher Certification

A. General Requirements

Core Areas A, B, C, D, and E ........................................................................................................ 42 hours

Core Area F ............................................................................................................................ 18 hours

EDUC 2110 Investigating Critical and Contemporary Issues in Education
EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
EDUC 2130 Exploring Learning and Teaching
PEHM 2100 Athletic Health Care: Prevention, Recognition, and Care of Sports Injuries
PEHM 2500 Foundations of Physical Education
PEHM 3200 Motor Development and Learning

Physical Education ................................................................................................................ 3 hours

First-Year Seminar ................................................................................................................ 1 hour

B. Major Field Courses ......................................................................................................... 60 hours

EDUC 3100 Technology Applications for Teachers
EDUC 3200 Curriculum, Instruction, and Assessment
EDUC 3300 Educating Students with Disabilities in the General Education Classroom
PEHM 3000 Current Health Education Issues
PEHM 3090 Basic Games, Dance & Rhythmic Activities
PEHM 3283 Kinesiology
PEHM 3300 Techniques in Team Sports Instruction
PEHM 3350 Class Management Practices in Health and Physical Education
PEHM 3500 Exercise Physiology
PEHM 3700 Individual and Dual Sports
PEHM 4000 Measurement and Evaluation in Health and Physical Education
PEHM 4090 Health Education Topics
PEHM 4100 Adaptive Physical Education
PEHM 4333 Principles of Coaching
PEHM 4701 Elementary Physical Education Curriculum and Methods
PEHM 4702 Middle and Secondary Physical Education Curriculum and Methods
PEHM 4703 Health Education Curriculum and Methods
PEHM 4750 Internship II Student Teaching

Total Semester Hours ......................................................................................................... 124 hours

C. Georgia Assessment for the Certification of Educators (GACE) Program Admission Assessments or exemption scores; Admission to Candidacy; evidence of professional tort liability insurance valid for a period no less than three (3) years from the date of Admission to Candidacy or exemption; GACE content area examinations passed; admission to Internship II; Georgia Professional Standards Commission Pre-Service
Certificate; content pedagogy assessment; current CPR (adult, child & infant); First Aid certification.

Track 2: Recreation and Coaching

A. General Requirements
Core Areas A, B, C, D.I, and E ................................................................. 42 hours
Core Area F ................................................................................................. 18 hours
   EDUC 2110 Investigating Critical and Contemporary Issues in Education
   EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
   ECON 2106 Principles of Microeconomics
   PEHM 2100 Athletic Health Care: Prevention, Recognition, and Care of Sports Injuries
   PEHM 2500 Foundations of Physical Education
   PSYC 2950 Lifespan Developmental Psychology

Physical Education .................................................................................. 3 hours
First-Year Seminar .................................................................................... 1 hour

B. Major Field Courses ............................................................................. 60 hours
EDUC 3300 Educating Students with Disabilities in the General Education Classroom
PEEC 3010 Intramurals and Recreational Programs
PEEC 3100 Outdoor Lifetime Activities
PEEC 3180 Officiating Team Sports
PEHM 3000 Current Health Education Issues
PEHM 3090 Basic Games, Dance & Rhythmic Activities
PEHM 3200 Motor Development and Learning
PEHM 3283 Kinesiology
PEHM 3300 Techniques in Team Sports Instruction
PEHM 3500 Exercise Physiology
PEHM 3700 Individual and Dual Sports
PEHM 4000 Measurement and Evaluation in Health and Physical Education
PEHM 4090 Health Education Topics
PEHM 4100 Adaptive Physical Education
PEHM 4333 Principles of Coaching
MGMT 3220 Management
PEHM 4900 Internship Recreation and Coaching
Choose two of the following four courses:
   PEEC 3120 Coaching Football
   PEEC 3130 Coaching Basketball
   PEEC 3140 Coaching Baseball
   PEEC 3150 Coaching Volleyball and Soccer

C. Electives .................................................................................................. 2 hours
2 hours of free electives

Total Semester Hours ................................................................................ 124 hours

D. Exit Exam; evidence of professional tort liability insurance; admission to community internship II; current CPR (adult, child & infant); First Aid certification.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION

A. General Requirements
Core Areas A, B, C, D.I, and E ................................................................. 42 hours
Core Area F (Grade of C or better required for all courses in Area F) .......... 18 hours
   EDUC 2110 Investigating Critical and Contemporary Issues in Education
   EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
   EDUC 2130 Exploring Learning and Teaching
See advisor for three courses that support area of concentration in English, Math, Science, or History.
Physical Education ..................................................................................................... 3 hours
First-Year Seminar ................................................................................................. 1 hour

B. Major Field Courses .......................................................................................... 36 hours
   EDUC 3100 Technology Applications for Teachers
   EDUC 3200 Curriculum, Instruction and Assessment
   EDUC 3250 Educational Policy and Professional Standards for Teachers
   EDUC 3300 Educating Students with Disabilities in the General Education Classroom
   SCED 3081 Student and Classroom Assessment
   SCED 3400 Classroom Management Strategies
   SCED 3750 Internship I Pre-Student Teaching
   SCED 4200 Reading and Writing in the Content Areas
   SCED 4750 Internship II Student Teaching
   Choose appropriate content method course:
       SCED 5300U Content Methods Secondary English and Language Arts
       SCED 5400U Content Methods Secondary History and Social Studies
       SCED 5500U Content Methods Secondary Science
       SCED 5600U Content Methods Secondary Mathematics

C. Teaching Content Courses .............................................................................. 24 hours
   See advisor for twenty four hours of upper level courses (3000 or higher) that support area of concentration.

Total Semester Hours ........................................................................................... 124 hours

D. Georgia Assessment for the Certification of Educators (GACE) Program Admission
   Assessments or exemption scores; Admission to Candidacy; evidence of professional
   tort liability insurance valid for a period no less than three (3) years from the date
   of Admission to Candidacy or exemption; GACE content area examinations passed;
   admission to Internship II; Georgia Professional Standards Commission Pre-Service
   Certificate; content pedagogy assessment.
Philosophy and Goals

The College of Health Professions employs innovative teaching strategies to prepare competent, caring, adaptable health care practitioners. College faculty members conduct and apply research to expand health care knowledge and delivery, improving the quality of life of our region’s citizens through community and professional service. Through academic excellence the college provides leadership to the region in promoting health and delivering health care.

The College of Health Professions strives to deliver innovative educational programs and services; achieve educational and practical excellence through creative use of traditional and innovative instructional techniques and technology; cultivate professional relationships through interactions among faculty, students, and community; communicate the humanistic values that underlie effective practice; utilize critical thinking to improve both the educational process and service delivery; and emphasize both the acceptance and initiation of change through collaborative partnerships within and without the college.

Organization and Degrees

The College of Health Professions includes the Departments of Diagnostic and Therapeutic Sciences, Health Sciences, Nursing, and Rehabilitation Sciences. The degrees offered in the College of Health Professions are as follows:

Associate of Science with tracks in:
- Communication Sciences and Disorders
- Health Sciences
- Medical Laboratory Science
- Nursing
- Radiologic Sciences
- Respiratory Therapy

Bachelor of Health Science

Bachelor of Science in:
- Communication Sciences and Disorders
- Medical Laboratory Science
- Nursing
- Radiologic Sciences
- Rehabilitation Sciences
- Respiratory Therapy

Master of Health Services Administration

Master of Public Health

Master of Science in:
- Communication Sciences and Disorders
- Nursing
- Sports Medicine
- Doctor of Physical Therapy

Those interested in detailed information on graduate programs should refer to the School of Graduate Studies section of this catalog and to the Armstrong State University Graduate Catalog.

Policies and Procedures

Criminal Background Checks. Clinical agencies utilized by the College of Health Professions may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be
unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

**Professional Standards for Applicants and Students.** All applicants and students in the College of Health Professions must meet and continue to meet the approved professional standards of the college and its programs. No one who jeopardizes the health or well being of a patient, client, coworker, or self, will be accepted into the College of Health Professions or continue as a student in one of the college’s programs. To meet the intellectual, physical and social competencies needed for professional requirements, all applicants and students must possess the necessary physical attributes and exhibit qualities of good judgment, mental strength, and emotional stability. Individual programs will inform all applicants in writing of the technical standards related to the professional duties of their disciplines. The faculty of each department shall be responsible for applying the standards for their students and prospective students.

The health care professional’s self-presentation is a vital part of the complex relationship among the client, the health care provider, and the health care delivery site. The College of Health Professions reserves the right to limit attire and adornments (such as clothing, jewelry, piercing, tattooing) of the body and its parts (such as hands, hair, face, oral cavity). See the policies of the respective departments for the enforcement of the college-wide policy. In all cases, final appeal may be made to the dean of the college who will appoint an appeals committee.

**Limits on Admission and Progress Requirements.** There are many more students applying for admission to these programs than we have spaces available. Therefore, it is important that you contact the program of your choice for advisement as soon as possible. Neither admission to Armstrong State University nor completion of prerequisite courses guarantees your admission to a health professions program. Because each program has its own admission criteria, procedure for admission, and progress requirements, students must apply to the particular programs they wish to enter.

**Other Requirements**

**Health and Insurance.** Completed health histories, evidence of health insurance, and evidence of liability (malpractice) insurance are required of students in Medical Laboratory Science, nursing, physical therapy, radiologic sciences, and respiratory therapy.
DIAGNOSTIC AND THERAPEUTIC SCIENCES

Faculty
Douglas Masini, Department Head and Program Coordinator, Respiratory Therapy
Laurie Adams, Clinical Coordinator, Radiation Therapy Track
Charlotte Bates, Faculty, Medical Laboratory Science
Jennifer Beirdneau, Faculty, Radiography Track
Rhonda Bevis, Faculty, Respiratory Therapy
Myka Bussey-Campbell, Program Coordinator, Sonography Track
Esma Campbell, Program Coordinator, Cardiovascular Interventional Track
Pamela Cartright, Program Coordinator, Radiation Therapy Track
Sharon Gilliard-Smith, Clinical Coordinator, Radiography Track
Carol Jordan, Faculty, Medical Laboratory Science
Robbi King, Clinical Coordinator, Sonography Track
Rochelle Lee, Program Coordinator, Nuclear Medicine Track
Shaunell McGee, Program Coordinator, Radiologic Sciences Bridge
Christine Moore, Director of Clinical Education, Respiratory Therapy
Stephen Morris, MD, FCCP, Medical Director, Respiratory Therapy

Accreditation Statement
The programs of Medical Laboratory Science, Radiologic Sciences and Respiratory Therapy all hold specialized accreditation. The degree program in Medical Laboratory Science is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 5600 N. River Rd. Suite 720, Rosemont, IL 60018-5119, 847.939.3597, 773.714.8880, Fax 773.714.8886, info@naacls.org, http://www.naacls.org for the period 2011-2018. The Radiologic Sciences tracks in Radiography and Radiation Therapy are accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850 Chicago, IL 60606-3182 mail@jrcert.org Tel: (312) 704-5300 www.jrcert.org for the period 2009-2017. The Nuclear Medicine track is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology 2000 W. Danforth Rd. STE 130, #203, Edmond, OK 73003 (405) 285-0546 jrcnmt@coxinet.net for the period 2011-2016. The Diagnostic Medical Sonography track is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street, Clearwater, FL 33756, 727.210.2350, Fax 727.210.2354, www.caahep.org for the period 2015–2020. The program in Respiratory Therapy is accredited by the Commission on Accreditation for Respiratory Care (CoARC) 1248 Harwood Road, Bedford, TX 76021 (817) 283-2835 (817) 354-8519 www.coarc.com for the period 2008-2018.

General Information
The Department of Diagnostic and Therapeutic Sciences offers the Bachelor of Science degree in Medical Laboratory Science, the Bachelor of Science in Radiologic Sciences, and the Bachelor of Science in Respiratory Therapy.

The Medical Laboratory Science program offers a Bachelor of Science in Medical Laboratory Science. Medical laboratory scientists (also known as medical technologists) perform and/or supervise the testing of blood, urine, spinal fluid, and other body specimens. Applying knowledge of chemistry, mathematics, and biology, the medical laboratory scientist uses both manual and automated techniques to provide diagnostic data to physicians.

The Radiologic Sciences Program offers a Bachelor of Science degree in Radiologic Sciences, with entry-level tracks in Radiation Therapy, Radiography, Diagnostic Medical Sonography, Nuclear Medicine and Cardiovascular/Interventional Sciences. All are highly technological health care professions with significant patient contact and are most often performed in a healthcare setting. Radiographers use radiation, magnetism, and sophisticated computer systems in the production of
diagnostic medical images. Specialty practitioners perform in areas such as mammography, MRI, CT, education, quality management, and with additional education, as Radiologist Assistants.

Radiation Therapists work with physicians to plan and deliver radiation therapy treatments, with a primary responsibility for accurate delivery and evaluation of treatments and effective communication with cancer patients. Nuclear Medicine Technology is a modality of diagnostic imaging that uses radioactive materials for both diagnostic and therapeutic procedures.

Nuclear Medicine Technologists administer these radioactive materials to patients and monitor the characteristics and functions of tissues or organs in which they localize. Nuclear Medicine Technologists operate gamma scintillation cameras that detect the radioactive material in the patient's body to create an image.

Diagnostic Medical Sonography uses high frequency sound waves to produce medical images of internal human anatomy and superficial structures in cross section. Ultrasound specialties include abdominal, obstetrics and gynecology, breast, musculoskeletal, pediatric, vascular, and echocardiography. The Diagnostic Medical Sonographer uses ultrasound imaging equipment to gather pertinent information from images that are necessary to assist the supervising physician in making a diagnosis, and must be able to work independently and with other health care professionals.

Cardiovascular Interventional Specialists work closely with physicians in complex procedures to diagnose and treat cardiac and vascular disease. Advancement of technology has moved to a new level in that many re-vascularization procedures that once required surgical intervention are now performed percutaneously in invasive cardiology laboratories and radiology interventional suites. The department provides comprehensive education to ensure that students enter their major field as highly competent, caring practitioners, who are dedicated to teamwork, research, community service, professionalism, and life-long learning.

The Respiratory Therapy Program offers a Bachelor of Science degree in Respiratory Therapy. A bachelor’s degree from an accredited respiratory therapy program qualifies graduates for entry into the advanced practitioner credentialing system, leading to the highest professional credential available in the field of respiratory therapy. The credentialing process is a two-part, nationally administered examination. Part one, a comprehensive written exam, is taken prior to graduation. Graduates who pass this exam will earn the entry level credential “Certified Respiratory Therapist” (CRT) from the National Board for Respiratory Care (NBRC), and will be eligible to enter the registry credentialing system. Candidates who pass both registry exams will earn the credential “Registered Respiratory Therapist” (RRT). The CRT credential is required for licensure by the Composite State Board of Medical Examiners of Georgia.

Admissions

Medical Laboratory Science Program Traditional Track

The Traditional Track is for entering freshmen and transfer students, and students with a bachelor’s degree in biology, chemistry, or related science fields. During the first two or three years of the four-year program, students complete core curriculum courses in chemistry, biology, mathematics, humanities, and social sciences. The four-semester professional phase starts every fall semester. Courses cover the major laboratory areas (urinalysis, hematology, clinical chemistry, blood banking, microbiology, and serology) and are offered on campus and online. Clinical practicums are provided.

An online fast track option is available for students who have completed a bachelor’s degree in biology, chemistry, or a related science field. This program consists of an online didactic component and a training experience in a clinical laboratory. It provides students with a high-quality academic and professional environment.

The program graduate will be able to satisfy eligibility requirements for a professional certification exam at the MLS level. Graduates of the Medical Laboratory Science program will qualify for employment in a variety of settings and can progress within the clinical laboratory science field to education, supervision, or management positions. Students in this track must maintain training support at an approved clinical facility while enrolled in the program.

Radiologic Sciences Program Traditional Track

Admission to all programs in Radiologic Sciences is on a space-available basis, and meeting requirements does not guarantee admission. The department has a separate formal admissions
process in addition to the admission process for the university. Applicants are required to submit a formal application to the department, transcripts of all college and technical school course work, and participate in an interview (if needed). Applicants must also take the TEAS-AH test and submit scores to the department as part of the application process.

The deadline for submission of all application items is February 1. (Please note this due date does not apply to the Bridge Program. One may apply to the Bridge Program at any time.) Baccalaureate degree programs begin in the fall semester of each year; however, registered practitioners entering the Bridge Program are not always tied to the fall start date. Department faculty will advise anyone interested in majoring in Radiologic Sciences. Admission to the professional component of the baccalaureate degree program is competitive. The amount of completed course work towards the degree, the number of required science courses completed, TEAS-AH scores, the interview (if needed), and GPA components determine competitiveness. Additional points may be awarded for completed, select course work in the major; applicants should see their advisor in regard to this matter. Detailed procedures and guidelines for program admission should be obtained from www.armstrong.edu/rad. The following guidelines are provided for general information only.

Radiologic Sciences Entry Level and Special Option (Second Primary Certification)

Applicants. Must have regular admission to Armstrong and a grade point average of 2.5 or higher for all college work. Applicants with less than a 2.5 GPA can apply and may be considered under special circumstances.

Prior to the beginning of the program the following must be successfully completed:

- Fifty semester hours of core degree requirements that include two college English Composition courses and College Algebra or higher.
- Required Lab Sciences (Significant preference for admission will be given to those applicants that have completed all of the five required sciences):
  - Cardiovascular Interventional Sciences: Must include Human Anatomy and Physiology I with lab and three additional lab sciences in the program of study.
  - Nuclear Medicine: Must include Human Anatomy and Physiology I with lab, Survey of Chemistry or Introduction to Chemistry lab, Physics with lab or Physical Environment with lab and one additional lab science in the program of study.
  - Radiography: Must include Human Anatomy and Physiology I with lab and three additional lab sciences in the program of study.
  - Radiation Therapy: Must include Human Anatomy and Physiology I AND II with labs, Physics with lab or Physical Environment with lab, and one additional lab science in the program of study.
  - Sonography: Must include Human Anatomy and Physiology I and II with labs, Physics with lab or Physical Environment with lab, and one additional lab science in the program of study.
  - Special Options (Second Certification) Applicants must provide proof of ARDMS, ARRT, or NMTCB certification.

Additional Math and Science Requirement:

- Applicants with more than two courses in the required math or science courses with a D or F will not be considered for admission.
- No required course in math or science may be repeated more than once if D or F is earned.
- Admission preference will be given for Armstrong students who earn all core credit at Armstrong and maintain an overall GPA of 3.0 or above and earn a minimum grade of B in all required math and science courses.

After admission to Radiologic Sciences, students must pay a $100.00 non-refundable deposit to reserve a seat in the program. Deposits are applied to students' first semester matriculation fees.

Respiratory Therapy Program Traditional Track

In order to be eligible for admission to the Respiratory Therapy program, a student must earn a minimum grade of ‘C’ in all science courses. No more than two science courses from Area D and/or Area F may be repeated more than twice. Transcript grades of ‘D’, ‘F’, or ‘WF’ are considered failing grades in the Respiratory Therapy program. Admission to Armstrong State University
does not guarantee admission to the respiratory therapy program. The department has a separate formal admissions process. Students are normally admitted to the professional component of the program in the Fall. The application deadline is **March 1**. Applications received after that date will be considered on a space available basis.

Admission to the major is made on a space available basis and is limited to the best qualified students as determined by the admissions committee. Meeting admission criteria does not constitute acceptance into the program. The maximum enrollment ceiling in the Respiratory Therapy Program is 22 students. Minimum admission criteria include completion of all core requirements for the major, an adjusted grade point average of 2.5, no grade less than C in courses related to area D or F of the core.

**Special Programs**

**Medical Laboratory Science Online Career Ladder Program**

An online Career-Ladder Track is offered to enable certified medical laboratory technicians (MLT) to advance their education. The online track is limited to those with MLT credentials with a current working experience in an approved clinical site. It provides students with a high quality academic and professional environment allowing for the development of their intellectual and manipulative competencies and attainment of professional values and characteristics. The program graduate will be able to satisfy eligibility requirements for a professional certification examination at the "scientist" level, to qualify for employment in a variety of settings, and to progress within clinical laboratory science to education, supervision, or management positions. Students in this track must maintain employment at an approved clinical facility while enrolled in the program.

**Radiologic Sciences Bridge Program**

The Radiologic Sciences Program also offers post-baccalaureate certificate programs, a graduate certificate, plus an online and campus-based R.T. to B.S.R.S. "Bridge" program.

**Baccalaureate Degree Completion (Bridge) Applicants.** Technologists who are registered by the American Registry of Radiologic Technologists, Nuclear Medicine Technology Certification Board, the American Registry for Diagnostic Medical Sonography or their equivalent are eligible to apply to the program. (If not yet certified, must become certified prior to the end of the first semester at Armstrong). Additional admission requirements are regular admission to Armstrong and grade point average of 2.3 or higher for all college work.

Before beginning any of the professional courses, the following must be successfully completed:
- At least 45 semester hours of degree requirements (Professional certification applies towards these hours)
- Anatomy and Physiology I and II or equivalent
- Two college English courses and one college algebra or above course.

**Respiratory Therapy RRT Online Career-Ladder Program.**

The Department of Respiratory Therapy has adopted the career-ladder model as the basis for accepting RRTs into the baccalaureate program. Registered respiratory therapists may advance their education while minimizing duplication of knowledge and skills. Other goals of the career-ladder program are to educate individuals who will be able to contribute to the growth and development of respiratory care as a profession; educate respiratory care providers in a scientific approach to problem-solving and patient care; provide the interpersonal and communication skills needed to work effectively as a member of the interdisciplinary health care team; and foster respect, critical thinking, and a genuine desire for knowledge. RRTs may receive advanced placement via equivalency credit. (Equivalent credit will be awarded individually based on the candidate’s academic transcript and professional portfolio). Applicants who graduated more than three years before admission will need to validate current practice.

**RRT Career-Ladder**

Students who have achieved the associate degree and the registered respiratory therapist (RRT) credential will be eligible to interview for the Armstrong Career Ladder program. Military respiratory therapists will receive special consideration. Candidates should have an earned associate degree in respiratory therapy, RRT credentials, completion of all baccalaureate core courses, a
cumulative grade point average of at least 2.5, and have completed a professional portfolio. Each portfolio should contain verification of RRT credentials, a notarized copy of the associate degree, a resume with complete work history, a current job description, a letter of recommendation from an immediate supervisor, verification of a current valid state license, and documentation of specialty credentials and in-house certifications.

Career Ladder applicants will have official transcripts or transfer credit, course substitutions, or achieve a C or better in all classes required in Area A-E.

Medical Laboratory Science Special Requirements

Criminal Background Checks. Clinical agencies utilized by the Medical Laboratory Science program may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

The professional phase of the medical laboratory science curriculum begins in the fall semester every year. Students desiring acceptance to the program should submit an application to the Medical Laboratory Science program before March 1 for the August class.

Currently enrolled Armstrong State University students must also meet the requirements for admission to the program and apply separately to the program. Transfer students must be accepted to the university with regular admission status. Certified associate degree medical laboratory technicians may receive transfer credit for junior level medical laboratory science courses upon presentation of acceptable certification scores and/or transfer credit, and satisfactory completion of written and/or practical examinations in the professional content areas.

If not currently enrolled at Armstrong, students must be accepted into the university with regular admission status. In addition, students should complete an application to the Medical Laboratory Science program, and have official transcripts, any certification scores, and two letters of reference sent to the department. Reference forms are available from the program website. All applicants will be notified by letter of their application status.

Minimum admission requirements are as follows:

- Cumulative grade point average of 2.4 or more
- Completion of required chemistry and biology courses
- Average of 2.5 or better in science courses (biology and chemistry), and no more than one such course with a grade of D or lower

Radiologic Sciences Special Requirements

Criminal Background Checks and Drug Testing. Clinical agencies utilized by Radiologic Sciences require criminal background checks and/or drug testing prior to acceptance of the student into each clinical facility. The student will assume the financial responsibility for any fees associated with required background checks and drug testing which may occur multiple times throughout clinical education placement. Students who do not pass the criminal background check due to pending or active court actions (including DUls) and/or fail a drug test will be unable to attend clinical courses and therefore will be denied a seat or, if already admitted, will be placed on a Leave of Absence, which will lead to dismissal if the matter is not resolved by the beginning of the next clinical course. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student. Prior conviction of a felony or misdemeanor which has not been discharged by the courts may prevent one from sitting for the national certification examination. Conviction of either a felony or misdemeanor necessitates completion of the pre-application review process as prescribed by the certification agency, and providing the Department with verification of eligibility for the examination. See the programmatic application for more information.

Health and Liability Insurance. Prior to matriculation in clinical education courses, students are required to submit evidence of liability (malpractice) insurance (must be acquired through Armstrong), health insurance that meets minimum standards, a physical examination including
proof of completed TB assessment such as chest radiograph or two-part PPD, and proof of recent (within one year) physical examination. Specific information regarding these requirements will be distributed to admitted students. No student may enroll in a clinical education course without the above mentioned requirements.

**CPR.** Students must show proof of certification in Basic Life Support/CPR from the American Heart Association before participating in clinical experiences.

**ACLS Certification.** CVIS students are required to earn advanced cardiac life support (ACLS) certification.

**Clinical Training.** Many of the clinical education sites are in the local area but some clinical education rotations may be located outside of the city of Savannah or even out of state. Almost all clinical assignments are within approximately a 150 mile radius of the university. Students are responsible for providing their own transportation to clinical sites for clinical education courses. Students are also responsible for any lodging expenses (if required). Moreover, students may be required to attend multiple out-of-town clinical education sites.

**Student Association Fees.** Students in the programs are required to participate in the Radiologic Sciences Student Association which assesses an annual fee. These fees are used for safety expenses, escrowed to cover costs associated with the Professional Pinning Ceremony, and other activities.

**Science Policy.** Applicants with more than two courses in the required math or science courses with a D or F will not be considered for admission. No required course in math or science may be repeated more than once if D or F is earned.

### Respiratory Therapy Special Requirements

**Criminal Background Checks and Drug Testing.** Clinical agencies utilized by the Respiratory Therapy program may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

**Legal.** The Composite State Board of Medical Examiners of Georgia has the authority to refuse to grant a license to an applicant upon a finding by the board that the applicant has been convicted of any felony, a crime involving moral turpitude, or a crime violating a federal or state law relating to controlled substances or dangerous drugs. Unlicensed students may be employed as long as they work under direct supervision. Students must apply for a temporary permit in order to work following graduation. In order to attain a full license the applicant must be employed under medical direction and have earned a CRT credential. It is a misdemeanor to practice respiratory care or falsely represent oneself as a respiratory care professional unless licensed by the board.

**Health and Insurance.** Students are required to submit a complete health history form and evidence of health insurance, immunizations, and liability (malpractice) insurance prior to participation in clinical practicum.

### Progression Requirements–Bachelor of Science in Medical Laboratory Science

Students must earn a C or better in each Medical Laboratory Science course. A student may repeat a single medical laboratory science course only one time (at the next offering, provided space is available). Students who fail to earn a C or better in a repeated medical laboratory science course, or who fail to earn a C in a subsequent medical laboratory science course, will be dismissed from the program with no possibility of readmission.

Students must maintain an overall adjusted grade point average of 2.0 or higher. A student who falls below this will be placed on suspension from the program for one semester. If the student’s grade point average is not raised by the end of the next semester, the student will be dismissed from the program.

Students must complete the professional course work within three consecutive years from the date of initial admission to the Medical Laboratory Science program.
Progression Requirements–Bachelor of Science in Radiologic Sciences

Didactic classes will normally be taught in sequence. Some courses may be taught out of sequence with the approval of the program coordinator and availability of clinical seats. This is providing that the responsible faculty member has workload availability.

Specific requirements for progress in the programs are as follows:

- A "C" or better in each course within the Radiologic Science major.
- Any student earning a grade of less than "C" in any major course of the first fall semester will be dismissed without the possibility of readmission to the degree.
- If a student earns a grade of less than “C” in any of the required courses in the major in a subsequent term, the student will be placed on probation for the duration of the program and must repeat the course.
- If a second grade of less than “C” is earned in any of the required courses in the major the student will be dismissed from the degree without the possibility of readmission to the degree.
- If two grades of less than “C” are earned in any major course in the same term, the student will be dismissed from the degree without the possibility of readmission.

University GPA Requirement. Students must have a GPA of 2.0 or better to graduate from Armstrong. Any student who has a GPA that falls below a 2.0 will be dismissed without the possibility of readmission.

Rising Senior Comprehensive Assessment Examination. At the end of the Spring Semester of the junior year, students will be given a comprehensive examination that covers all material up to that point. In order to progress to the senior year without remediation, students will be required to earn a minimum score of “60%” on each part of the examination. If a student earns less than 60% on any section of the test, the student is required to register for the Remediation Course and complete remediation for the failed content. Students who fail to meet the remediation course requirements or fail to earn a minimum score of 60 on the retest will be dismissed.

Exit Examination. The Exit Examination is given as part of each track’s Synthesis course. A score of 80% or greater on one exit examination or a score of 75% or greater on two exit examinations is required in order for the student to pass these courses. Students in the sonography track are required to pass the national certification examinations to meet this requirement.

Program Dismissal for Ethical Violations. In the event a student is dismissed from the degree for an ethical violation, that student is permanently barred from the degree with no option for readmission (see Code of Professional Conduct).

Progression Requirements–Bachelor of Science in Respiratory Therapy

Students must complete the respiratory therapy program within three consecutive academic years from the date of initial entry. Students who do not complete the program within this time limit must reapply for admission, meet current criteria for admission, and have their previous credits evaluated at the time of their subsequent admission. Students who are readmitted must meet course requirements in effect at the time of readmission.

A grade of C or better is required for each course in the major field of study. A student who earns a grade of less than C must repeat the course the next semester it is offered. Students may repeat a course in the major field of study only once. Students who must repeat more than one course in the major field of study will be dismissed from the program with no option for readmission. Students placed on academic warning who do not raise their grade point average to the minimum criteria for academic good standing the following semester will be suspended from the program. Courses used to raise the grade point average must be approved by the academic advisor. Students suspended from the program are eligible for readmission.

Students must complete readmission applications for Armstrong State University and the respiratory therapy major. Students will be required to meet admission and curriculum requirements in effect at the time of readmission, and must complete a comprehensive clinical evaluation prior to
readmission. Students are responsible for scheduling such evaluations by the mid-term date of the semester prior to readmission. Readmission to the respiratory therapy major is a faculty decision and will be based on space availability and faculty recommendation.

Certificate Programs

Undergraduate Certificate in Nuclear Medicine .......................................................... 29 hours

Professional Courses:
- RADS 3501 Principles and Practice of Nuclear Medicine I
- RADS 3502 Principles and Practice of Nuclear Medicine II
- RADS 3503 Principles and Practice of Nuclear Medicine III
- RADS 3520 Radiopharmacy and Radiochemistry
- RADS 4540 Nuclear Medicine Physics and Instrumentation
- RADS 4571 Nuclear Medicine Practicum I
- RADS 4572 Nuclear Medicine Practicum II
- RADS 4573 Advances in Nuclear Medicine
- RADS 4574 Nuclear Medicine Inquiry

Post-Baccalaureate Certificate in Radiation Therapy ................................................. 27 hours

Professional Courses:
- RADS 3190 Principles of Radiation Therapy
- RADS 4201 Radiation Oncology I
- RADS 4202 Radiation Oncology II
- RADS 4240 Radiation Therapy Physics
- RADS 4260 Treatment Planning
- RADS 4280 Quality Management in Radiation Therapy
- RADS 4302 Radiation Therapy Clinical Education II
- RADS 4303 Radiation Therapy Clinical Education III
- RADS 4304 Radiation Therapy Clinical Education IV
- RADS 4305 Radiation Therapy Clinical Education V

Post-Baccalaureate Certificate in Clinical Specialist in Advanced Imaging ............. 18 hours

Professional Courses:
- RADS 4175 Advanced Clinical Education
- RADS 4176 Specialized Clinical Education
- RADS 4410 Cross Sectional Anatomy
- Choose one of the following:
  - RADS 4111 Advanced Imaging in MRI
  - RADS 4112 Advanced Imaging in CT
  - RADS 4113 Advanced Imaging in Mammography
  - RADS 4114 Advanced Imaging in CVIT

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Medical Laboratory Science Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) ........................................... 42 hours

In core area D:
- CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of Chemistry I/II
- MATH 2200 Elementary Statistics

Physical Education ........................................................................................................ 3 hours

First-Year Seminar ....................................................................................................... 1 hour
B. Additional Requirements .......................................................................................... 18 hours
   BIOL 1107/1107L or BIOL 1107H/1107A Principles of Biology I
   BIOL 2081/2082 Human Anatomy & Physiology I/II (and labs)
   CHEM 2101 Organic Chemistry I or CHEM 2000 Fundamentals of Organic Chemistry and
   Biochemistry
   Other approved course (e.g., biology, chemistry, computer science)

Total Semester Hours 64

C. University Exit Exam

Radiologic Sciences Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) .......................................... 42 hours
   Physical Education ...................................................................................................... 3 hours
   First-Year Seminar ........................................................................................................ 1 hour

B. Additional Requirements (Core Area F) ................................................................. 18 hours
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   HLPR 2000 Introduction to Research in Health Professions
   Guided Electives from the following list (4 credit hours)
      RADS 2000 Terminology of Imaging and Radiologic Sciences OR RESP 2110 Medical
      Terminology
      COMM 2280, or a lower-level class (1000- or 2000-level) in MATH, CSCI, ITEC, BIOL,
      CHEM, PHYS, PHSC, ASTR, GEOL, or ISCI
   One of the following:
      PHSC 1211/1211L Physical Environment and Lab
      PHYS 1111K Introductory Physics I

Total Semester Hours 64

C. University Exit Exam

Respiratory Therapy Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) .......................................... 42 hours
   Physical Education ...................................................................................................... 3 hours
   First-Year Seminar ........................................................................................................ 1 hour

B. Additional Requirements .......................................................................................... 18 hours
   BIOL 2081/2082 Human Anatomy & Physiology I/II
   BIOL 2275 Microorganisms and Disease
   PHSC 1211 Physical Environment
   or
   PHYS 1111K Introduction to Physics I
   Approved Elective

Total Semester Hours 64

C. University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE

A. General Requirements (Core Areas A, B, C, D.IIB, and E) ................................. 42 hours
   Core Area F ............................................................................................................... 18 hours
   BIOL 1107/1107L Principles of Biology I
   and Biochemistry
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   Other approved courses (e.g., biology, chemistry, computer science)
Physical Education ........................................................................................................................................... 3 hours
First-Year Seminar ........................................................................................................................................... 1 hour

Track I: Traditional Track
B. Major Field Courses ................................................................................................................................. 54 hours
   MEDT 3100 Urinalysis and Body Fluids
   MEDT 3200 Clinical Bacteriology
   MEDT 3300 Clinical Hematology and Hemostasis
   MEDT 3400 Clinical Immunohematology
   MEDT 3500 Clinical Chemistry
   MEDT 3600 Clinical Laboratory Methodologies and Molecular Diagnostics
   MEDT 3700 Clinical Immunology
   MEDT 3800 Clinical Microbiology
   MEDT 4115 Clinical Practicum (15 credit hours)
   MEDT 4600 Clinical Pathways & Critical Decision Making
   MEDT 4900 Laboratory Management and Education
C. Related Field Courses ................................................................................................................................. 6 hours
   BIOL 2010 Microbiology
   HLPR 2000 Research in the Health Professions

Total Semester Hours 124 hours

D. Exit Exam

Track II: Online Career Ladder Program
B. Major Field Courses ................................................................................................................................. 48 hours
   MEDT 3110 Urinalysis and Body Fluids
   MEDT 3210 Clinical Bacteriology
   MEDT 3310 Clinical Hematology and Hemostasis
   MEDT 3410 Clinical Immunohematology
   MEDT 3510 Clinical Chemistry
   MEDT 3610 Clinical Laboratory Methodologies and Molecular Diagnostics
   MEDT 3710 Clinical Immunology
   MEDT 3810 Clinical Microbiology
   MEDT 4115 Clinical Practicum (15 credit hours)
   MEDT 4600 Clinical Pathways & Critical Decision Making
   MEDT 4900 Laboratory Management and Education
C. Related Field Courses ................................................................................................................................. 6 hours
   BIOL 2010 Microbiology
   HLPR 2000 Research in the Health Professions
D. Transfer MLT Courses ................................................................................................................................. 6 hours

Total Semester Hours 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES
A. General Requirements (Core Areas A, B, C, D.IIB, and E) ............................................................................. 42 hours
   Core Area F ..................................................................................................................................................... 18 hours
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   DDTS 2001 Intro to Diagnostic and Therapeutic Sciences
   Guided Electives from the following list (3 credit hours)
   COMM 2280, or a lower-level class (1000- or 2000-level) in MATH, CSCI, ITEC, BIOL, CHEM, PHYS, PHSC, ASTR, or GEOL
(Nuclear Medicine students who have not completed a Chemistry sequence in Area D must complete one chemistry course with lab as the science elective)

One of the following:
PHSC 1211/1211L Physical Environment and Lab
PHYS 1111K Introductory Physics I

Physical Education ....................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses ................................................................................................. 24 hours
DDTS 3001 Patient Care and Interaction
DDTS 4010 Research Methodologies
DDTS 4020 Management and Leadership
HLPR 2000 Intro to Research in Health Professions
RDSC 3001 Radiologic Sciences I
RDSC 3002 Radiologic Sciences II
RDSC 3060 Princ of Image Formation and Evaluation

a. Radiography Track ............................................................................................. 42 hours
RADR 3001 Radiography I
RADR 3002 Radiography II
RADR 3003 Radiography III
RADR 3100 Introduction to Radiography Clinical Education
RADR 4101 Radiography Clinical Education I
RADR 4102 Radiography Clinical Education II
RADR 4103 Radiography Clinical Education III
RADR 4200 Radiography Synthesis
RDSC 4100 Advanced Imaging Modalities (may be repeated for additional credit)

Total Semester Hours for Radiography Track 130 hours

b. Radiation Therapy Track* ................................................................................. 42 hours
RTHR 3001 Radiation Therapy I
RTHR 3002 Radiation Therapy II
RTHR 3003 Radiation Therapy III
RTHR 3100 Introduction to Radiation Therapy Clinical Education
RTHR 4101 Radiation Therapy Clinical Education I
RTHR 4102 Radiation Therapy Clinical Education II
RTHR 4103 Radiation Therapy Clinical Education III
RTHR 4200 Radiation Therapy Synthesis
RDSC 4100 Advanced Imaging Modalities

Total Semester Hours for Radiation Therapy Track 130 hours

*Note: Radiation therapy students must take a pre-calculus course. This may be taken as a guided elective in area F.

c. Nuclear Medicine Track.......................................................................................... 42 hours
NUCM 3001 Nuclear Medicine I
NUCM 3002 Nuclear Medicine II
NUCM 3003 Nuclear Medicine III
NUCM 3100 Introduction to Nuclear Medicine Clinical Education
NUCM 4101 Nuclear Medicine Clinical Education I
NUCM 4102 Nuclear Medicine Clinical Education II
NUCM 4103 Nuclear Medicine Clinical Education III
NUCM 4200 Nuclear Medicine Synthesis
RDSC 4100 Advanced Imaging Modalities (CT section)

Total Semester Hours for Nuclear Medicine Track 130 hours
d. **Sonography Track** ........................................... 42 hours
   - RDSC 4100 Advanced Imaging Modalities
   - SONO 3001 Sonography Principles, Theory, and Physics I
   - SONO 3002 Sonography Principles, Theory, and Physics II
   - SONO 3003 Sonography Principles, Theory, and Physics III
   - SONO 3100 Introduction to Sonography Clinical Education
   - SONO 4101 Sonography Clinical Education I
   - SONO 4102 Sonography Clinical Education II
   - SONO 4103 Sonography Clinical Education III
   - SONO 4200 Sonography Synthesis

   **Total Semester Hours for Sonography Track** 130 hours

   *Sonography students must take a speech communication course. This may be taken as a guided elective in area F.*

e. **Cardiovascular/Interventional Science Track** ............................................. 42 hours
   - CVIS 3001 Cardiovascular Interventional Sciences I
   - CVIS 3002 Cardiovascular Interventional Sciences II
   - CVIS 3003 Physiologic Monitoring and Recording
   - CVIS 3100 Introduction to Cardiovascular Interventional Sciences Clinical Education
   - CVIS 4101 Cardiovascular Interventional Clinical Education I
   - CVIS 4102 Cardiovascular Interventional Clinical Education II
   - CVIS 4103 Cardiovascular Interventional Clinical Education III
   - CVIS 4200 Cardiovascular Interventional Sciences Synthesis

   **Total Semester Hours for Cardiovascular/Interventional Track** 130 hours

C. Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADILOGIC SCIENCES–SPECIAL OPTIONS**

A. **General Requirements** (Core Areas A, B, C, D.IIB, and E) ......................... 42 hours
   - **Core Area F** ...................................................... 18 hours
     - BIOL 2081 Human Anatomy and Physiology I
     - BIOL 2082 Human Anatomy and Physiology II
     - HLPR 2000 Research in Health Professions
   - 4 Credit hours of Guided Electives
   - One of the following:
     - PHSC 1211/1211L Physical Environment and Lab
     - PHYS 1111K Introductory Physics I
   - **Physical Education** .............................................. 3 hours
   - **First-Year Seminar** ................................................ 1 hour

B. **Major Field Courses** .......................................................... 66 hours

   a. **Radiation Therapy** ........................................... 24 hours
      - RADS 3000 Introduction to Radiologic Sciences
      - RADS 3080 Professional Interactions
      - RADS 3050 Patient Care and Interactions
      - RADS 3060 Principles of Image Formation and Evaluation
      - RADS 3090 Introduction to Radiation Physics
      - RADS 3112 Introduction to Computed Tomography
      - RADS 3150 Radiobiology and Radiation Protection
      - RADS 3190 Principles of Radiation Therapy
      - RADS 3195 Radiation Therapy Procedures
      - RADS 3200 Imaging Pathology
      - RADS 3301 Clinical Education I
      - RADS 3302 Clinical Education II
      - RADS 3303 Clinical Education III
      - RADS 3304 Clinical Education IV
RADS 3450 Leadership in Healthcare
RADS 3451 Leadership Practicum
RADS 4112 Advanced Imaging in Computed Tomography
RADS 4201 Radiation Oncology I
RADS 4202 Radiation Oncology II
RADS 4240 Radiation Therapy Physics
RADS 4260 Treatment Planning
RADS 4280 Quality Management in Radiation Therapy
RADS 4303 Clinical Education III
RADS 4304 Clinical Education IV
RADS 4305 Clinical Education V
RADS 4307 Radiation Therapy Synthesis Seminar
RADS 4308 Radiation Therapy Seminar
RADS 4410 Cross-Sectional Anatomy
RADS 4450 Radiologic Sciences Management
RADS 4800 Research Methodologies in Radiologic Sciences

b. Nuclear Medicine
RADS 3000 Introduction to Radiologic Sciences
RADS 3050 Patient Care and Interactions
RADS 3080 Professional Interactions
RADS 3090 Introduction to Radiation Physics
RADS 3150 Radiobiology and Radiation Protection
RADS 3112 Introduction to Computed Tomography
RADS 3200 Imaging Pathology
RADS 3450 Leadership in Healthcare
RADS 3451 Leadership Practicum
RADS 3501 Principles of Nuclear Medicine I
RADS 3502 Principles of Nuclear Medicine II
RADS 3503 Principles of Nuclear Medicine III
RADS 3510 Nuclear Medicine Instrumentation
RADS 3520 Radiopharmacy and Radiochemistry
RADS 3531 Clinical Education I
RADS 3532 Clinical Education II
RADS 4112 Advanced Imaging in CT
RADS 4410 Cross-Sectional Anatomy
RADS 4533 Clinical Education III
RADS 4534 Clinical Education IV
RADS 4535 Clinical Education V
RADS 4540 Nuclear Medicine Physics
RADS 4561 Nuclear Medicine Synthesis
RADS 4562 Nuclear Medicine Seminar
RADS 4570 Introduction to PET
RADS 4450 Radiologic Sciences Management
RADS 4800 Research Methodologies in Radiologic Sciences

c. Sonography
COMM 2280 Speech Communication
RADS 3000 Introduction to Radiologic Sciences
RADS 3050 Patient Care and Interactions
RADS 3080 Professional Interaction
RADS 3200 Imaging Pathology
RADS 3450 Leadership in Healthcare
RADS 3451 Leadership Practicum
RADS 3600 Introduction to Sonography
RADS 3601 Sonographic Theory I
RADS 3602 Sonographic Theory II
RADS 3603 Sonographic Theory III
RADS 3604 Sonographic Theory IV
RADS 3631 Sonography Clinical Education I
RADS 3632 Sonography Clinical Education II
RADS 3651 Sonographic Physics I
RADS 3652 Sonographic Physics II
RADS 4410 Cross-Sectional Anatomy
RADS 4450 Radiologic Sciences Management
RADS 4633 Sonography Clinical Education III
RADS 4634 Sonography Clinical Education IV
RADS 4635 Sonography Clinical Education V
RADS 4661 Sonography Synthesis Seminar
RADS 4662 Advanced Sonography Seminar
RADS 4671 Introduction to Vascular Sonography
RADS 4800 Research Methodologies in Radiologic Sciences

Upon completion of 80 semester hours towards the degree, technologists who are registered by the American Registry of Radiologic Technologists, the Nuclear Medicine Technology Certification Board, or the American Registry for Diagnostic Medical Sonography will be awarded equivalency credit hours in the major. The amount of credit will be based on the technologist’s academic record and professional portfolio.

Total Semester Hours 130 hours

C. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES—(BRIDGE PROGRAM)

A. General Requirements (Core Areas A, B, C, D.IIB, and E) ................................. 42 hours
   Core Area F ........................................................................................................... 18 hours
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   Six hours of guided electives
   One of the following:
   PHSC 1211/1211L Physical Environment and Lab
   PHYS 1111K Introductory Physics I
   Physical Education .............................................................................................. 3 hours
   First-Year Seminar ......................................................................................... 1 hour

B. Major Field Courses ......................................................................................... 66 hours
   Choose one of the following tracks:
   a. Clinical Track
      HLPR 2000 Research in Health Professions
      RADS 3100 Medical Communication Skills
      RADS 3200 Imaging Pathology
      RADS 3450 Leadership in Healthcare
      RADS 3451 Leadership Practicum
      RADS 4410 Cross Sectional Anatomy
      RADS 4430 Professional Practice Seminar
      RADS 4175 Advanced Clinical Education
      RADS 4176 Specialized Clinical Education
      Choose one of the following:
      RADS 4111 Advanced Imaging in MRI
      RADS 4112 Advanced Imaging in CT
      RADS 4113 Advanced Imaging in Mammography (limited to radiographers)
      One Approved Elective from the management track
b. Management Track
HLPR 2000 Research in Health Professions
RADS 3100 Medical Communication Skills
RADS 3200 Imaging Pathology
RADS 3450 Leadership in Healthcare
RADS 3451 Leadership Practicum
RADS 4430 Professional Practice Seminar
RADS 4450 Radiologic Sciences Management
RADS 4451 Management Practicum
Choose five courses from the following:
HSCC 2300 Management of Health Information
HSCC 2500 Health Issues & Resources
HSCC 3110 Legal Issues in the Health Care Environment
HSCC 3130 Health Policy Issues
HSCA 3600 Financial Management for Health-Related Organizations
HSCA 4201 Health Care Marketing
HSCA 4600 Principles of Human Resources Management
HSCA 4650 Long Term Care Management

c. Non-clinical Track
HLPR 2000 Research in Health Professions
RADS 3100 Medical Communication Skills
RADS 3200 Imaging Pathology
RADS 3450 Leadership in Healthcare
RADS 3451 Leadership Practicum
RADS 4410 Cross Sectional Anatomy
RADS 4430 Professional Practice Seminar
RADS 4450 Radiologic Sciences Management
RADS 3112 Intro to Computed Tomography
RADS 4800 Research Methodologies in Radiologic Sciences
Choose four of the following:
RADS 3455 Introduction to Bioethics
RADS 4111 Advanced Imaging in MRI
RADS 4112 Advanced Imaging in CT
RADS 4113 Advanced Imaging in Mammography (limited to radiographers)
ENG 3720 Business and Technical Communication
HSCP 2000 Ethical Theories/Moral Issues in Health
HSCP 3750 Topics in Public Health
MHSA 5800U Comparative Healthcare Systems
PUBH 5560U Introduction to International Health
PUBH 5580U Health and Human Development
WBIT 3010 Technical Communication

Upon completion of 80 semester hours towards the degree, technologists who are registered by the American Registry of Radiologic Technologists, the Nuclear Medicine Technology Certification Board, or the American Registry for Diagnostic Medical Sonography will be awarded equivalency credit hours in the major. The amount of credit will be based on the technologist’s academic record and professional portfolio.

Total Semester Hours 130 hours

C. Test and Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RESPIRATORY THERAPY

A. General Requirements (Core Areas A, B, C, D.IIB, and E) .................................. 42 hours
   Core Area F ............................................................................................................... 18 hours
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   BIOL 2275 Microorganisms and Disease
   PHYS 1111K Introductory Physics I or PHSC 1211 Physical Environment
   Approved elective
   Physical Education ..................................................................................................... 3 hours
   First-Year Seminar ...................................................................................................... 1 hour

B. Major Field Courses ................................................................................................. 61 hours
   RESP 2110 Medical Terminology
   RESP 3110 Patient Assessment
   RESP 3120 Respiratory Care Equipment
   RESP 3151C Clinical Practicum I
   RESP 3210 Clinical Pharmacology
   RESP 3220 Respiratory Care Fundamentals
   RESP 3230 Diagnostic Procedures
   RESP 3252C Clinical Practicum II
   RESP 3315 Principles of Mechanical Ventilation
   RESP 3325 Managing the Ventilator Patient
   RESP 3353C Clinical Practicum III
   RESP 4110 Advanced Ventilatory Support
   RESP 4120 Cardiopulmonary Critical Care
   RESP 4130 Perinatal Care
   RESP 4140 Cardiopulmonary Medicine
   RESP 4154C Clinical Practicum IV
   RESP 4215 Professional Issues in Respiratory Care
   RESP 4265C Clinical Internship
   Or *RESP 3700 Introduction to Advanced Practice in Respiratory Care
   And *RESP 4700 Preceptorship in Cardiopulmonary Care
   And one of the following:
   *HSCC 2200 Health Communication
   *HSCP 2000 Ethical Theories/Moral Issues in Health
   *HSCC 2300 Management of Health Information

*Career Ladder Student courses

C. Related Field Courses ............................................................................................... 5 hours
   RESP 3400 Cardiopulmonary Anatomy and Physiology
   HLPR 2000 Introduction to Research in the Health Professions

Total Semester Hours ......................................................................................... 130 hours

D. Exit Exams
HEALTH SCIENCES

Faculty
Robert LeFavi, Interim Department Head and Graduate Coordinator of Sports Medicine
Joey Crosby, Graduate Coordinator of Health Services Administration
Sara Plasphohl, Graduate Coordinator of Public Health
Janet Buelow
Lesley Clack
Christine Coniglio
Jeremy Gentles
Nandi Marshall
Rod McAdams
Leigh Rich
Bryan Riemann
James Streater
McKinley Thomas
David Ward
TimMarie Williams

General Information
The overall mission of the Department of Health Sciences is to make available educational opportunities for persons interested in entering a health field or to provide an academic program for experienced health professionals who wish to further their career opportunities.

The curriculum emphasizes a view that health is different from illness and is designed to teach new students and practicing health professionals this difference. The curriculum permits students to earn a baccalaureate degree reflecting expertise in health science while focusing on an applied health-related area. Upon graduation, these health professionals will implement the concepts they have learned and direct the efforts of the public in the promotion, enhancement, and maintenance of health and in the prevention of health problems.

Criminal Background Checks. Clinical agencies utilized by the Department of Health Sciences may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Admission Requirements
In addition to a completed health sciences program application made to the department, students must seek regular admission to Armstrong State University. Students must be eligible for MATH 1111 or ENGL 1101, and must undergo a formal interview conducted by a health sciences faculty member.

Progress Requirements
All students are required to submit evidence of liability insurance and a health assessment prior to beginning their practicum.

Students must complete the degree program within six consecutive years from the date of their initial admission to the major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits calculated. Students who are granted readmission must meet course requirements in effect at the time of readmission. A minimum grade of C or better must be earned in each course in the major.

Senior students must successfully complete the bachelor of health science exit exam, as well as the university’s general education exit exam, during the last semester before graduation. It is recommended that all bachelor of health science students have current CPR certification at the time of graduation.
Minor

The minor in Health Science requires eighteen (18) semester hours with a grade of C or better in each course.

Health Science ................................................................................................................. 18 hours
  HSCC 2500, HSCC 3130, HSCC 3140
  Three (3) upper level Health Science courses approved by the Head of the Health Sciences Department.

Health Sciences Gerontology Certificate Program.

The program provides students with a multi-disciplinary background in aging and offers an opportunity to explore aspects of aging relevant to personal interests and career goals. Students who complete the application for admission to the certificate program and return it to the Department of Health Science will be invited to meet with an assigned faculty member to discuss the proposed program of study. A minimum grade of C or better must be earned in each course for the certificate to be awarded on the undergraduate level. The gerontology certificate program consists of six courses (18 semester hours), and all courses listed are pre- or co-requisites to GERO 5520U.

Undergraduate Certificate in Gerontology ................................................................. 18 hours

Required courses
  GERO 5500U Survey of Gerontology
  GERO 5510U Healthy Aging
  GERO 5520U Gerontology Practicum
  Three courses (9 hours) chosen from:
    PUBH 5550U Nutrition
    SMED 5555U Physical Activity in Disease Prevention/Treatment
    or
    Approved elective course(s)

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Health Sciences Track

A. General Requirements (Core Areas A, B, C, D, I, E) .............................................. 42 hours
  Physical Education ...................................................................................................... 3 hours
  First-Year Seminar ..................................................................................................... 1 hour

B. Additional Requirements ....................................................................................... 18 hours
  HSCC 2200 Health Communication
  HSCC 2300 Management of Health Information
  HSCC 2500 Health Issues and Resources
  RESP 2110 Medical Terminology
  MATH 2200 Elementary Statistics*
  One** course selected from:
    ANTH 1102 Introduction to Anthropology**
    ECON 2105 Principles of Macroeconomics**
    PSYC 1101 Introduction to Psychology**
    SOCI 1101 Introductory Sociology**
  * If not taken in area D.
  **If MATH 2200 is taken in Area D, select a second course from the list.

Total Semester Hours 64

C. University Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF HEALTH SCIENCE

Student will choose one specialty track.

Track One: Health Services Administration

A. General Requirements (Core Areas A, B, C, D.1, and E) ......................................... 42 hours
   Core Area F  ............................................................................................................... 18 hours
   - ACCT 2101 Principles of Financial Accounting
   - HSCC 2200 Health Communication
   - HSCC 2300 Management of Health Information
   - HSCC 2500 Health Issues and Resources
   - RESP 2110 Medical Terminology
   - MATH 2200 Elementary Statistics*
   *If not taken in area D. If MATH 2200 is taken in Area D, select a course from the following list:
     - ANTH 1102 Anthropology
     - ECON 1101 Survey of Economics
     - ECON 2105 Principles of Macroeconomics
     - ECON 2106 Principles of Microeconomics
     - PSYC 1101 Introduction to Psychology
     - SOCI 1101 Introductory Sociology
   Physical Education ..................................................................................................... 3 hours
   First-Year Seminar ..................................................................................................... 1 hour

B. Major Field Courses .............................................................................................. 12 hours
   - HSCC 3100 Research Methods
   - HSCC 3110 Legal Issues in the Health Care Environment
   - HSCC 3140 Epidemiology
   - HSCC 4020 Seminar in Professional Issues

C. Related Field Courses ............................................................................................ 48 hours
   - GER 3500U Survey of Gerontology
   - HILPR 2200 Interprofessional Teams in Healthcare Organizations
   - HSCP 2000 Ethical Theories/Moral Issues in Health
   - HSCC 3130 Health Policy Issues
   - HSCA 3600 Financial Management for Health-Related Organizations
   - HSCA 4201 Health Care Marketing
   - HSCA 4600 Principles of Human Resources Management
   - HSCA 4610 Health Care Economics
   - HSCA 4620 Principles of Management in Health Services Organizations
   - HSCA 4630 Health Information Systems
   - HSCA 4655 Principles of Health Insurance and Reimbursement
   - HSCA 4660 Survey of Health Outcomes
   - MHSA 5800U Comparative Health Care Systems
   Students must take 9 hours from this list
   - HSCP 2050 Introduction to the Disease Continuum
   - HSCP 4000 Independent Study in Health Sciences
   - HSCC 4005 Interprofessional Patient Advocacy Internship
   - HSCC 4950 Practicum
   - GER 5510U Healthy Aging
   - PUBH 5560U Introduction to International Health
   - PUBH 5570U Women and Minority Health Issues
   - PSYC 5150U Conflict Resolution
   - PSYC 5300U Leadership and Group Dynamics
   - SPAN 1001 Elementary Spanish I
   - SPAN 1002 Elementary Spanish II
   - HSCF 3710 Worksite Wellness and Safety
Track Two: Long Term Care*

*Track Two: Long Term Care program is not currently accepting new students.

A. General Requirements (Core Areas A, B, C, D, I, and E) ................................. 42 hours

   Core Area F ............................................................................................................... 18 hours
   
   ACCT 2101 Principles of Financial Accounting
   HSCC 2200 Health Communication
   HSCC 2300 Management of Health Information
   HSCC 2500 Health Issues and Resources
   RESP 2110 Medical Terminology
   MATH 2200 Elementary Statistics*

   *If not taken in area D. If MATH 2200 is taken in Area D, select a course from the following list:
   ANTH 1102 Anthropology
   ECON 1101 Survey of Economics
   ECON 2105 Principles of Macroeconomics
   ECON 2106 Principles of Microeconomics
   PSYC 1101 Introduction to Psychology
   SOCI 1101 Introductory Sociology

   Physical Education .................................................................................................... 3 hours

   First-Year Seminar .................................................................................................... 1 hour

B. Major Field Courses ............................................................................................... 12 hours

   HSCC 3100 Research Methods
   HSCC 3110 Legal Issues in the Health Care Environment
   HSCC 3140 Epidemiology
   HSCC 4020 Seminar in Professional Issues

C. Related Field Courses ............................................................................................. 48 hours

   HSCF 3710 Worksite Wellness and Safety
   HSCA 3600 Financial Management for Health-Related Organizations
   HSCA 4201 Health Care Marketing
   HSCA 4610 Health Care Economics
   HSCA 4620 Principles of Management in Health Services Organizations
   HSCA 4650 Long Term Care Management
   HSCA 4655 Principles of Health Insurance and Reimbursement
   HSCA 4901 Health Science Practicum I
   HSCA 4902 Health Science Practicum II
   MHSA 5650U Seminar in Long Term Care Administration
   GER 2110U Healthy Aging
   PSYC 3200 Industrial/Organizational Psychology
   MHSA 5500U Managing Health Professionals
   PUBH 5580U Health and Human Development
   Electives (6 hours maximum)

   Total Semester Hours .............................................................................................. 124 hours

D. Exit Exam

Track Three: Public Health

A. General Requirements (Core Areas A, B, C, D, I, and E) ................................. 42 hours

   Core Area F ............................................................................................................... 18 hours

   HSCC 2200 Health Communication
   HSCC 2300 Management of Health Information
HSCC 2500 Health Issues and Resources
RESP 2110 Medical Terminology
MATH 2200 Elementary Statistics*
One** course selected from:
   ACCT 2101 Principles of Financial Accounting**
   ANTH 1102 Anthropology**
   ECON 1101 Survey of Economics**
   ECON 2105 Principles of Macroeconomics**
   ECON 2106 Principles of Microeconomics**
   PSYC 1101 Introduction to Psychology**
   SOCI 1101 Introductory Sociology**
* If not taken in area D.
** If MATH 2200 is taken in Area D, select a second course from the list.

Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses .................................................................................................. 12 hours
   HSCC 3100 Research Methods
   HSCC 3110 Legal Issues in the Health Care Environment
   HSCC 3140 Epidemiology
   HSCC 4020 Seminar in Professional Issues

C. Related Field Courses ............................................................................................... 48 hours
   HSCP 2050 Introduction to the Disease Continuum
   HSCC 3760 Environmental and Community Health Issues
   HSCP 3730 Health Promotion Theory
   HSCP 3740 Health Promotion Methods
   HSCP 3750 Topics in Public Health
   HSCC 4015 Health Planning
   GERO 5500U Survey of Gerontology
   PUBH 5550U Nutrition

A minimum of 24 semester hours chosen from the following:
   HSCC 4950 Practicum
   GERO 5510U Healthy Aging
   HSCP 2000 Ethical Theories/Moral Issues in Health
   HSCF 3710 Worksite Wellness and Safety
   HSCF 4030 Health and Fitness Management
   HSCP 4000 Independent Study in Health Sciences
   HSCA 4201 Health Care Marketing
   HSCA 4620 Principles of Management in Health Services Organizations
   HSCA 4655 Principles of Health Insurance and Reimbursement
   HSCC 3130 Health Policy Issues
   MHSA 5500U Managing Health Professionals
   PEHM 2100 Athletic Health Care: Prevention, Recognition, and Care of Sports Injuries
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   SMED 5555U Physical Activity in Disease Prevention/Treatment
   PUBH 5560U Introduction to International Health
   PUBH 5565U Strategies for the Prevention of Chemical Dependency
   PUBH 5570U Women and Minority Health Issues
   PUBH 5575U Health and Sexuality
   PUBH 5580U Health and Human Development
   PUBH/SMED 5600U Healthy Weight Mgmt & Body Comp
   PSYC 3200 Industrial/Organizational Psychology
   PSYC 5150U Conflict Resolution
   PSYC 5300U Leadership and Group Dynamics
Track Four: Human Performance/Fitness Management

A. General Requirements (Core Areas A, B, C, D.I, and E) ........................................ 42 hours

   Core Area F ........................................................................................................ 18 hours
   - ACCT 2101 Principles of Financial Accounting
   - BIOL 2081 Human Anatomy and Physiology I
   - BIOL 2082 Human Anatomy and Physiology II
   - HSCF 2015 Introduction to Human Performance & Fitness Management
   - MATH 2200 Elementary Statistics
   - RESP 2110 Medical Terminology

   Physical Education ................................................................................................. 3 hours
   - First-Year Seminar ............................................................................................. 1 hour

B. Major Field Courses ............................................................................................ 9 hours
   - HSCC 3100 Research Methods
   - HSCC 3140 Epidemiology
   - HSCC 4020 Seminar in Professional Issues

C. Related Field Courses ......................................................................................... 51 hours
   - HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology
   - HSCF 3200 Exercise Physiology
   - HSCF 3500 Applied Kinesiology and Biomechanics
   - HSCA 3600 Financial Management for Health-Related Organizations
   - HSCF 3710 Worksite Wellness and Safety
   - HSCF 4010 Evaluation and Prescription in Exercise and Sport
   - HSCF 4020 Health and Fitness Entrepreneurship
   - HSCF 4030 Health and Fitness Management
   - HSCF 4040 Personal Fitness Training
   - SMED 5555U Physical Activity in Disease Prevention / Treatment
   - SMED 5090U Nutritional Issues in Sports Medicine
   - SMED 5600U Healthy Weight Mgmt & Body Comp
   - Select one of the following courses:
     - SMED 5015U Assessment and Evaluation of Musculoskeletal Injuries
     - SMED 5065U Movement and Posture Assessment and Exercise
   - Electives (11 hours)

Total Semester Hours ........................................... 124 hours

D. Exit Exam

Track Five: Health Informatics

A. General Requirements (core Areas A, B, C, D.I, and E) ........................................ 42 hours

   Core Area F ........................................................................................................ 18 hours
   - CSCI 1150 Fundamentals of the Internet and World-Wide Web
   - CSCI 2070 Introduction to Computer Ethics and Cyber Security
   - HSCC 2500 Health Issues and Resources
   - HSCC 2300 Management of Health Information
   - ITEC 1310 Programming for Information Technology
   - RESP 2110 Medical Terminology

   Physical Education ................................................................................................. 3 hours
   - First-Year Seminar ............................................................................................. 1 hour

Total Semester Hours ........................................... 124 hours

D. Exit Exam
B. Major Field Courses .................................................................................................. 15 hours
   HLPR 2200 Interprofessional Teams in Healthcare Organizations
   HSCC 3110 Legal Issues in the Health Care Environment
   HSCC 3140 Epidemiology
   ITEC 2530 Operating Systems
   ITEC 3500 Database Administration

C. Related Field Courses ................................................................................................ 45 hours
   HITC 4100 Analysis of Healthcare Data
   HITC 4700 Introduction to Project Management
   HITC 4750 Principles of Knowledge Management and Decision Support
   HITC 4800 Special Topics in Health Informatics
   HITC 4900 Internship (6 credit hours)
   HSCA 4620 Principles of Management in Health Services Organizations
   HSCA 4630 Health Information Systems
   HSCA 4655 Principles of Health Insurance and Reimbursement
   HSCA 4660 Survey of Health Outcomes
   HSCC 4020 Seminar in Professional Issues
   HSCP 2000 Ethical Theories/Moral Issues in Health
   ITEC 3600 Systems Analysis and Design
   ITEC 3700 Cybersecurity I
   ITEC 3800 Data Communications and Networks

Total Semester Hours 124 hours

E. Exit Exam

NURSING

Faculty
Catherine Gilbert, Department Head
Anita Nivens, Graduate Program Coordinator
Marilyn O’Malley, RN-BSN Program Coordinator
Trina Embrey, Undergraduate Program Coordinator
Linda Tuck, Accelerated BSN Program Coordinator
Jill Beckworth    Cherie McCann
Gina Crabb       Kathy Morris
Amber Derksen    Debbie Mulford
Cyndi Faudree    Luzviminda Quirimit
Debra Hagerty    Tonya Sellars
Ann Hallock     Helen Taggart
Jeff Harris      Tonya Tyson
Pamela Mahan    Sherry Warnock
Carole Massey

Accreditation Statement

The program in nursing is approved by the Georgia Board of Nursing. The Armstrong Department of Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE). Accreditation is an indication of public approbation, attesting to the quality of the educational program and the continued commitment of the sponsoring institution to support the program. (For further information about the accreditation of the program, please contact the Commission on Collegiate Nursing Education at the following address:

Commission on Collegiate Nursing Education
One Dupont Circle, NW, Suite 530
Washington, DC 20036-1120
(202) 887-6791
General Information

The Department of Nursing offers an Associate of Science degree with a track emphasizing nursing and a four year program leading to the Bachelor of Science in Nursing degree. The nursing program of study is designed to prepare graduates with entry level nursing practice knowledge and skills upon which professional careers and additional study can be built. The baccalaureate nursing program emphasizes professional nursing practice and leadership skills. Graduates are prepared to provide comprehensive nursing care for people in a variety of settings. The baccalaureate degree also provides the foundation for graduate education in nursing. Graduates must meet all legal requirements for licensure as established by the State Board of Nursing in order to be eligible to take the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse (RN). Full and part-time study is available.

Special Programs

Armstrong Advantage Program. This innovative baccalaureate nursing program is designed to guarantee conditional admission to the pre-licensure baccalaureate nursing program for enrolled Armstrong students who meet the following criteria:

Step One:
- Has not attended another secondary educational institution.
- Completion of all core courses at Armstrong State University with no failures and no repeat courses.
- GPA of at least 3.0 on all core courses required for nursing majors.
- Successful completion of the Test of Essential Academic Skills (TEAS) with a grade at the proficient level or higher.
- Read and sign the Core Performance Standards

Apply for Department of Nursing Armstrong Advantage after completing area A and D, and meeting the criteria listed above. Your application will be reviewed and you will be notified by mail if you have been accepted for conditional admission. This conditional admission guarantees your seat in the pre-licensure baccalaureate nursing program, provided that you maintain a GPA of at least 3.0 with no course repeats.

Step Two:
Continue academic progression to complete at least 54 hours of core, including all Area F courses with no repeats and no failures and maintain a GPA of at least 3.0. You are to report to the nursing program for advisement each semester where your progress will be monitored for compliance. If you are in the Honors program you are to report to the Honors advisor and nursing department. (please notify the DON that you are in the Honors program)

Step Three:
At the beginning of each application process (Spring and Fall), Department of Nursing Armstrong Advantage students scheduled for admission in that semester must complete an application for admission to the pre-licensure BSN program. Complete information regarding admission procedures is available in the Department of Nursing.

Students meeting these criteria may apply to the nursing department beginning the semester following completion of Area F courses. Prior to taking nursing courses, accepted students must complete at least 54 hours of core including all Area F courses with no repeats and maintain a minimum GPA of 3.0. Students who fail to meet the criteria for early selection must apply for regular admission during the next admission cycle.

Advanced Placement Option for Licensed Practical Nurses. Students admitted with current licensure as a practical nurse may be eligible for advanced placement in the baccalaureate nursing program. Eligibility is based on faculty review of individual records and documentation, including transcripts, verification and proof of licensure/certification, and validation of clinical practice skills. Licensed Practical Nurses may CLEP out of up to 25 semester credit hours of nursing course work. The Licensed Practical Nurse must be currently employed to exempt NURS 3344. Qualified students interested in this option should contact the Department of Nursing for advisement and additional
information. Students must meet all admission and progression requirements for the baccalaureate nursing program. See also “Special Requirements”.

**Accelerated Bachelor of Science in Nursing.** The Department of Nursing offers a three semester accelerated program leading to the Bachelor of Science in Nursing (BSN) Degree for students with a bachelor’s degree in another field. The nursing program of study is designed to prepare graduates with entry level nursing practice knowledge and skills upon which professional careers and additional study can be built. The baccalaureate nursing program emphasizes professional nursing practice and leadership skills.

**Admission Requirements**

**Pre-Licensure.** See “Limits on Admission” in the College of Health Professions section of this catalog. Applicants to the program must be regularly admitted to Armstrong State University prior to making application to the nursing major. Admission decisions are made by the nursing faculty. Admission to the nursing major is competitive. Minimum requirements to be admitted include a grade of C or better in each course in Core Areas A, D, and F, completion of at least 54 hours of required core with an overall grade point average of 3.0 in all prerequisite course work attempted, and acceptable completion of the Test of Essential Academic Skills (TEAS) with a grade of proficient or higher.

A grade of C or higher is required for all Area A, D, and F courses. Repeating any course in Areas A, D, and F in order to achieve a passing grade (at least a C) reduces the chance for admission to nursing. Repeating more than one course in each (Area A, D, and F) to earn a passing grade (at least a C) makes the student ineligible for admission to nursing.

Meeting minimum requirements does not guarantee admission to the nursing major. Those applicants who, in the judgment of the nursing faculty, present the strongest academic record and show the most promise of success in the nursing major will be accepted. Students are expected to meet the core performance standards for nursing posted on the DON web page (www.nursing.armstrong.edu).

Transfer applicants from another nursing program must meet the criteria established for admission to the nursing majors and provide a letter of good standing from the chair of the nursing program. Transfer credit will be awarded depending upon equivalency of courses. Decisions for course substitutions will be made by the nursing faculty using actual course syllabi with content outlines and descriptions supplied by the transfer student. Area F Sciences must be successfully completed within ten years of DON application. Repeat and failure rules apply. Post-baccalaureate applicants for the traditional pre-licensure BSN program must achieve an overall 3.0 minimum GPA in Area F and Statistics in order to be considered for admission.

Students who do not progress in a nursing program may be considered for readmission to Armstrong’s nursing program after a period of 3 years. Only one readmission into the nursing program per track is permitted. The student must meet all current entry requirements. Upon acceptance, the student will be required to complete all nursing courses from the beginning.

Application to the nursing major must be submitted by the published deadline. (Consult the departmental office for details.) Only completed applications will be considered. Students who are not admitted may reapply for the next admission cycle. Complete information regarding admission procedures is available in the Department of Nursing.

Upon admission, students must pay a $350.00 non-refundable deposit to reserve a place in the program. This deposit is applied to first semester fees and liability insurance for two academic years. See also “Special Requirements” below.

**Accelerated BSN Program**

1. A bachelors degree from an accredited university
2. Grade point average of 3.2 in statistics and area F courses without repetition of science courses to achieve a passing grade
3. A score at the **proficient level** on the ATI Test of Essential Academic Skills (TEAS)
4. Admission to Armstrong State University.
5. Ability to meet the **Core Performance Standards** (See website for details)
6. Post baccalaureate students will be given credit for completion of Areas A, B, C, D and E with the exception of MATH 2200 in Area D and US and Georgia History and Government.
7. Sciences in Area F must have been completed within the past 10 years with a grade of C or higher.
8. Post-baccalaureate students must complete in Area D MATH 2200-Elementary Statistics and all courses in Area F with a grade of C or higher prior to admission.
9. All required core courses and graduation requirements must be completed before beginning the final semester of the nursing program.
10. Completion of a preadmission interview
11. Verification through signature that the student will not be employed at any time while enrolled in the accelerated program

Special Requirements

Legal. The Georgia Board of Nursing has the authority to refuse to grant a license to an applicant upon a finding by the board that the applicant has been convicted of any felony, crime involving moral turpitude, or crime violating a federal or state law relating to controlled substances or dangerous drugs in the courts of this state, any other state, territory, or country, or in the courts of the United States, including but not limited to a plea of nolo contendere entered to the charge. Unlicensed students may be employed only as unlicensed personnel. They may not represent themselves or practice as nursing students except as part of a scheduled clinical learning activity in the curriculum. Students must meet all legal requirements for licensure.

Health and Insurance. Admitted students must submit complete health histories and evidence of health insurance, prior to admission and annually.

CPR. Admitted students must submit proof of CPR certification (adult, child and infant) prior to beginning nursing courses and annually. Current certification must be maintained during nursing course enrollment.

Criminal Background Checks and Drug Testing. Clinical agencies utilized by the Department of Nursing require criminal background checks and/or drug testing prior to acceptance of the student into the clinical facility. Students who do not pass the criminal background check and/or drug test will be unable to attend clinical, and therefore will be unable to complete the clinical course requirements. Any fees or costs associated with background checks and/or drug testing are the responsibility of the student.

Clinical Agencies. Students who are denied admission to a clinical facility for any reason may not be able to complete clinical course requirements, and thus may not be able to complete the required program of study.

Progress Requirements

Students are responsible for reading and abiding by the policies in the Baccalaureate Nursing Program Student Handbook, including the core performance standards.

Students must be admitted to the nursing program in order to enroll in any nursing course.

Students must complete the baccalaureate nursing program within four consecutive years from the date of their initial admission to the nursing major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits evaluated. Students who are granted readmission must meet course requirements in effect at the time of readmission. Any student not matriculating each semester, excluding summer semester, must apply for readmission to the program.

All pre-licensure nursing students will be required to participate in comprehensive testing while enrolled in the nursing program of study. Additional fees per semester will be applicable.

Grading Policy: Grades for all course assignments will be recorded as earned with no mathematical rounding. This policy allows the faculty of the Department of Nursing to remove uncertainty and ensure integrity in the grading process for all students. Numerical averages will not be rounded up.
All nursing students must have on an annual, up-to-date basis: health history; physical examination by an M.D. or N.P.; tuberculin test or proof of negative chest x-ray; immunizations; CPR certification; health insurance. (Additional institutional requirements may exist or may change over time, depending on clinical agency policy.)

Pre-licensure students earning a grade lower than C in one nursing course or withdrawing from one nursing course (W, WF) must meet with their assigned advisor to review the student’s program of study. Before progressing in the program, the student must repeat the course at the next offering on a space available basis.

Pre-licensure students earning a grade lower than C in two nursing courses or withdrawing from two nursing courses (W, WF), or a combination of one grade lower than C and one withdrawal (W, WF) will be dismissed from the program.

Any academic work required to satisfy course requirements for grades of incomplete in prerequisite courses must be accomplished before enrollment in the successive nursing course.

Graduating nursing students are required to take a comprehensive exam prior to graduation. Failure to comply with any of the above requirements while in the nursing program constitutes grounds for dismissal from the program.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Nursing Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) .......................................... 42 hours
   Physical Education ...................................................................................................... 3 hours
   First-Year Seminar ...................................................................................................... 1 hour

B. Additional Requirements .......................................................................................... 18 hours
   BIOL 2081/2082 Human Anatomy & Physiology I/II (and labs)
   BIOL 2275 Microorganisms and Disease (and lab)
   PSYC 1101 Introduction to Psychology
   PSYC 2950 Lifespan Developmental Psychology

Total Semester Hours 64

C. University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING - PRE-LICENSURE STUDENTS

A. General Requirements (Core Areas, A, B, C, D.IIB, and E) ................................. 42 hours
   Core Area F ............................................................................................................... 18 hours
   BIOL 2081 Human Anatomy and Physiology I*
   BIOL 2082 Human Anatomy and Physiology II*
   BIOL 2275 Microorganisms and Disease*
   PSYC 1101 Introduction to Psychology
   PSYC 2950 Developmental Psychology
   Physical Education ...................................................................................................... 3 hours
   First-Year Seminar ...................................................................................................... 1 hour

B. Major Field Courses ................................................................................................. 64 hours
   NURS 3304 Professional Nursing Practice
   NURS 3309 Pathophysiology
   NURS 3312 Pharmacological Concepts for Nursing I
   NURS 3320 Health Assessment of the Well Individual
   NURS 3344 Skills and Essentials
   NURS 3345 Adult Health I
NURS 3535 Mental Health
NURS 4313 Pharmacological Concepts for Nursing II
NURS 4345 Adult Health II
NURS 4355 Women and Children’s Health
NURS 4440 Population Focused Nursing
NURS 4445 Research for Evidence-Based Practice
NURS 4450 Professional Nursing Leadership and Management
NURS 4466 Critical Scientific Inquiry
One elective course selected from:
NURS 3610 Strategies for Success in Professional Nursing
NURS 4210 Gerontology in the 21st Century
NURS 4211 Vulnerable Populations
NURS 4212 International Nursing Issues and Trends
NURS 4213 Introduction to Forensic Nursing and the Law
NURS 4214 Complementary and Alternative Medicine
NURS 4215 Home Health Nursing
NURS 4216 Palliative Care at End of Life
NURS 4217 Critical Care
NURS 4218 Perioperative Nursing
NURS 4219 Nursing Perspectives: Then, Now, and the Future
NURS 4220 Women and Leadership in Nursing
NURS 4221 Nursing Practice in the Military
NURS 4222 Pediatric Nursing Externship
NURS 4223 Maternal/Infant Nursing Externship
NURS 4227 Health Promotion Through the Life Span

Total Semester Hours 128 hours

C. Departmental and University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING—PRE-LICENSURE STUDENTS, ADVANCED PLACEMENT TRACK (APT)

A. General Requirements (Core Areas, A, B, C, D.IIB, and E) ................................. 42 hours
   Core Area F ............................................................................................................... 18 hours
      BIOL 2081 Human Anatomy and Physiology I*
      BIOL 2082 Human Anatomy and Physiology II*
      BIOL 2275 Microorganisms and Disease*
      PSYC 1101 Introduction to Psychology
      PSYC 2950 Developmental Psychology

   Physical Education ..................................................................................................... 3 hours
   First-Year Seminar ..................................................................................................... 1 hour

B. Major Field Courses ................................................................................................. 64 hours
   NURS 3304 Professional Nursing Practice
   NURS 3309 Pathophysiology
   NURS 3312 Pharmacological Concepts for Nursing I
   NURS 3320 Health Assessment of the Well Individual
   NURS 3344 Skills and Essentials**
   NURS 3345 Adult Health I**
   NURS 3535 Mental Health**
   NURS 4313 Pharmacological Concepts for Nursing II
   NURS 4345 Adult Health II
   NURS 4355 Women and Children’s Health**
   NURS 4440 Population Focused Nursing
   NURS 4445 Research for Evidence-Based Practice
NURS 4450 Professional Nursing Leadership and Management  
NURS 4466 Critical Scientific Inquiry  
One elective course selected from:  
- NURS 3610 Strategies for Success in Professional Nursing  
- NURS 4210 Gerontology in the 21st Century  
- NURS 4211 Vulnerable Populations  
- NURS 4212 International Nursing Issues and Trends  
- NURS 4213 Introduction to Forensic Nursing and the Law  
- NURS 4214 Complementary and Alternative Medicine  
- NURS 4215 Home Health Nursing  
- NURS 4216 Palliative Care at End of Life  
- NURS 4217 Critical Care  
- NURS 4218 Perioperative Nursing  
- NURS 4219 Nursing Perspectives: Then, Now, and the Future  
- NURS 4220 Women and Leadership in Nursing  
- NURS 4221 Nursing Practice in the Military  
- NURS 4222 Pediatric Nursing Externship  
- NURS 4223 Maternal/Infant Nursing Externship  
- NURS 4227 Health Promotion Through the Life Span  

*Must be completed within 10 years of admission to the nursing program.  
**Course may be challenged by testing for licensed practical nurses admitted to the baccalaureate nursing program.

Total Semester Hours: 128 hours

C. Departmental and University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING, RN OPTIONS PROGRAM—POST-LICENSENCE STUDENTS

*Bachelor of Science in Nursing, RN Options Program—Post-Licensure program is not currently accepting new students.

A. General Requirements (Core Areas, A, B, C, D.IIB, and E) ........................................ 42 hours

Core Area F .......................................................................................................................... 18 hours
- BIOL 2081 Human Anatomy and Physiology I  
- BIOL 2082 Human Anatomy and Physiology II  
- BIOL 2275 Microorganisms and Disease  
- Two courses selected from:  
  - PSYC 1101 Introduction to Psychology  
  - PSYC 2950 Developmental Psychology  
  - SOCI 1101 Introductory Sociology  

Physical Education ........................................................................................................... 3 hours
First-Year Seminar ........................................................................................................... 1 hour

B. Major Field Courses ...................................................................................................... 64 hours

NURS 3312 Pharmacology Concepts I*  
NURS 3344 Skills and Essentials*  
NURS 3345 Adult Health I*  
NURS 3535 Mental Health*  
NURS 4000 Professional Nursing  
NURS 4002 Leadership and Management for Professional Nurses  
NURS 4004 Health Assessment  
NURS 4005 Population Focused Community Nursing in a Global Society  
NURS 4006 Professional Role Synthesis  
NURS 4008 Pathophysiology/Pharmacology  
NURS 4009 Foundations of Healthcare Informatics  
NURS 4345 Adult Health II*  
NURS 4355 Women and Children’s Health*
NURS 4445 Nursing Research
NURS 4466 Scientific Inquiry*
One elective course selected from:
    NURS 4010 Legal and Ethical Issues in Nursing
    NURS 4210 Gerontology in the 21st Century
    NURS 4211 Vulnerable Populations
    NURS 4212 International Nursing Issues and Trends
    NURS 4213 Introduction to Forensic Nursing and the Law
    NURS 4214 Complementary and Alternative Modalities
    NURS 4216 Palliative Care at End of Life
    NURS 4219 Nursing Perspectives: Then, Now, and the Future
    NURS 4220 Women and Leadership in Nursing
    NURS 4221 Nursing Practice in the Military
    NURS 4227 Health Promotion Through the Life Span

Total Semester Hours 128 hours

* In accordance with the Georgia RN-BSN Articulation Model (Advanced Placement Validation of Previous Learning), 33 semester hours credit will be awarded after successful completion of six (6) R.N. Options credit hours.

C. Departmental and University Exit Exams

BACHELOR OF SCIENCE IN NURSING–ACCELERATED TRACK (ABSN)

A. General Requirements (Core Areas A, B, C, D.IIB, and E) 42 hours
Core Area F 42 hours

    Core Area F
    BIOL 2081 Human Anatomy and Physiology I *
    BIOL 2082 Human Anatomy and Physiology II*
    BIOL 2275 Microorganisms and Disease*
    PSYC 1101 Introduction to Psychology
    PSYC 2950 Developmental Psychology

Physical Education 3 hours
First-Year Seminar 1 hour

B. Major Field Courses 64 hours

    NURS 3314 Professional Nursing Practice
    NURS 3319 Pathophysiology
    NURS 3321 Physical Assessment
    NURS 3334 Skills and Essentials
    NURS 3346 Adult Health I
    NURS 3351 Comprehensive Pharmacology
    NURS 3536 Mental Health
    NURS 4346 Adult Health II
    NURS 4356 Women and Children’s Health
    NURS 4441 Population Focused Nursing
    NURS 4445 Research for Evidence-Based Practice
    NURS 4451 Professional Nursing Leadership and Management
    NURS 4465 Integration of Nursing Knowledge

One elective course selected from:
    NURS 4210 Gerontology in the 21st Century
    NURS 4211 Vulnerable Populations
    NURS 4212 International Nursing Issues and Trends
    NURS 4213 Introduction to Forensic Nursing and the Law
    NURS 4214 Complementary and Alternative Medicine
    NURS 4215 Home Health Nursing
    NURS 4216 Palliative Care at End of Life
    NURS 4219 Nursing Perspectives: Then, Now, and the Future
    NURS 4220 Women and Leadership in Nursing
NURS 4221 Nursing Practice in the Military
NURS 4227 Health Promotion Through the Life Span

Total Semester Hours 128

C. Departmental and University Exit Exams

REHABILITATION SCIENCES

Faculty
Anne Thompson, Department Head and Graduate Coordinator for Physical Therapy
Maya R. Clark, Program Coordinator and Graduate Coordinator for Communication Sciences and Disorders
April W. Garritty, Clinic Coordinator for Communication Sciences and Disorders
David Bringman, Program Coordinator for Rehabilitation Science
Janet Bradshaw
Donna R. Brooks
George Davies
Frank Glenn
Nancy Henderson

Keri Barksdale Mans
Andi Beth Mincer
Kathy Schaefer
Haley Worst

General Information

The Department of Rehabilitation Sciences offers the Doctor of Physical Therapy Degree (DPT), the Master of Science in Communication Sciences and Disorders, the Bachelor of Science in Communication Sciences and Disorders, the Bachelor of Science in Rehabilitation Sciences, and an Associate of Science degree with a track emphasizing Rehabilitation Sciences.

The Bachelor of Science in Rehabilitation Sciences has a curriculum designed to meet the needs of students seeking entry-level positions in health care or preparing for graduate study in a variety of health professions, including physical therapy, occupational therapy, prosthetics, and sports medicine. Elective courses increase the flexibility of this degree, so that students planning to apply to graduate programs in other health disciplines could consider this degree program. The bachelor's degree program combines the strong science curriculum (chemistry, physics, biology, anatomy, and physiology) needed for success in the health professions with a strong background in the behavioral sciences (general and abnormal psychology, and health and human development). The student's knowledge of exercise and exercise principles is developed through courses that focus on the musculoskeletal, neuromuscular and cardiovascular-pulmonary bases of exercise.

The undergraduate degree in Communication Sciences and Disorders provides preparation in the normal processes of communication and its development, as well as in the identification and treatment of communication disorders for students whose career interests include audiology and speech-language pathology. In addition, the Bachelor of Science in Communication Sciences and Disorders provides a broad foundation in normal and disordered aspects of speech, language, and hearing for students who are interested in pursuing careers in disciplines such as deaf education, speech science, hearing science, special education, and child development. Major courses begin in the fall of the junior year and proceed in a sequential hierarchy of courses.

Admissions

Admission to either Bachelor of Science degree requires regular admission to Armstrong State University. Students must be eligible for MATH 1111 and ENGL 1101.

Progression Requirements–Bachelor of Science in Rehabilitation Science

Students must attain a grade of C or better in all required courses in Area D, Area F, and the major area of study, and must maintain an overall minimum grade point average (GPA) of 2.0.
However, students who are earning a GPA less than 2.5 should strongly consider another major, as most graduate programs will require a minimum GPA of 2.5 or higher.

Students who receive a D or F in courses in Area D, Area F or the major area of study are allowed to repeat these courses only once. Receiving a D or F in any of these courses more than once will result in dismissal from the program.

Students presently enrolled at Armstrong who are seeking admission to the Rehabilitation Science Bachelor’s Degree program or students who are wishing to transfer into the Rehabilitation Science Bachelor’s Degree program should have both an overall and science GPA of 2.5 or higher.

All students must complete the university exit examination during their last semester before graduation, but there is no specific exit exam in the major.

Progression Requirements—Bachelor of Science in Communication Sciences and Disorders

Students must maintain an overall grade point average of 2.0. Students must also attain a grade of C or better in all required courses in Area F, the major courses, and related field courses. Students who receive a D or F in courses in Area F, the major courses, or related field courses are allowed to repeat these courses only once. Receiving a D or F in each of these courses more than once will result in dismissal from the Program. All students must complete the university exit examination during their last semester before graduation, but there is no specific exit exam in the major.

Special Requirements—Communication Sciences and Disorders

• Students are required to complete a speech, language, and hearing screening administered by the program.
• Students in the Communication Sciences and Disorders program will interact with members of the community through required volunteer and clinical observation experiences. All students must demonstrate professional behaviors and adhere to the Code of Ethics of the American Speech-Language-Hearing Association.
• Students are required to obtain twenty-five clinical observation hours verified with a signature by a certified audiologist or speech-language pathologist as required by the American Speech-Language-Hearing Association.
• Students are also required to obtain 10 hours of volunteer activities that are unpaid and serve the University or the Community.

Minors

Neuroscience .................................................................................................................... 18 hours

The Department of Rehabilitation Sciences participates in offering an interdisciplinary minor in Neuroscience. See details under “Interdisciplinary Certificates and Minors” in this catalog.

Post-Baccalaureate Certificate in Communication Sciences and Disorders

The post-baccalaureate program is designed for individuals who have earned a Bachelor’s degree in disciplines other than Communication Sciences and Disorders and now wish to complete the prerequisite courses (i.e., “leveling courses”) that are often required for admission into a graduate program in either audiology or speech-language pathology.

The certificate is available to students who hold a baccalaureate degree from an accredited institution and have earned a cumulative GPA of 3.0. Interested students should submit an application to the program. Course rotation begins each fall.

Post-Baccalaureate Certificate in Communication Sciences and Disorders ........... 24 hours

CSDS 1220 Introduction to Communication Sciences
CSDS 2230 Anatomy and Physiology of Speech and Hearing Mechanisms
CSDS 2240 Normal Speech and Language Development
CSDS 2250 Phonetics  
CSDS 3400 Speech Science  
CSDS 3410 Introduction to Audiology  
CSDS 3420 Language Disorders  
CSDS 4151 Writing for the Health Professions

Students completing the certificate in Communication Sciences and Disorders are required to obtain twenty-five clinical observation hours verified with a signature by a certified audiologist or speech-language pathologist as required by the American Speech-Language-Hearing Association. Students are also required to obtain 10 hours of volunteer activities that are unpaid and serve the University or the Community for the certificate to be awarded.

While completion of the Post-baccalaureate program does not guarantee admission into the Communication Sciences and Disorders Graduate Program at Armstrong, it does qualify students to submit an application for admission into the graduate program at Armstrong and for many other graduate programs in the United States.

For more information about the certificate or for a career in Communication Sciences and Disorders, please contact the program.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Rehabilitation Sciences Track

A. General Requirement (Core Areas A, B, C, D.IIA, E) ............................................ 42 hours  
   Physical Education ...................................................................................................... 3 hours  
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements ..................................................................................... 18 hours  
   HLPR 2000 Introduction to Research in the Health Professions  
   BIOL 2081/2082 Human Anatomy & Physiology I/II  
   One of the following sequences:  
      BIOL 1107/1107L and BIOL 1108 (and lab) Principles of Biology I/II  
      CHEM 1211/1211L and CHEM 1212/1212L Principles of Chemistry I/II

Total Semester Hours 64

C. University Exit Exam

Communication Sciences and Disorders Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) .......................................... 42 hours  
   Physical Education ...................................................................................................... 3 hours  
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements ................................................................................ 18 hours  
   CHEM 1151 Survey of Chemistry I  
   CHEM 1151L Survey of Chemistry I Laboratory  
   CSDS 1220 Introduction to Communication Disorders  
   HLPR 2000 Introduction to Research in the Health Professions  
   HSCC 2200 Health Communication  
   HSCC 2500 Health Issues and Resources  
   PSYC 1101 Introduction to Psychology or PSYC 2950 Lifespan Developmental Psychology

Total Semester Hours 64

C. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN REHABILITATION SCIENCES

A. General Requirements (Core Areas, A, B, C, D.IIA, and E) ................................. 42 hours  
   Core Area F ............................................................................................................... 18 hours  
   HLPR 2000 Introduction to Research in the Health Professions  
   BIOL 2081/2082 (with labs) Human Anatomy and Physiology I/II

Total Semester Hours 64

C. Exit Exam
One of the following (if not used in Core Area D.IIa):
BIOL 1107/1107L and BIOL 1108 (with lab) Principles of Biology I/II
CHEM 1211/1211L and CHEM 1212/1212L Principles of Chemistry I/II

Physical Education .......................................................................................................................... 3 hours
First-Year Seminar .......................................................................................................................... 1 hour

B. Major Field Courses .................................................................................................................. 39-42 hours
COMM 2280 Speech Communication
HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology
HSCF 3200 Exercise Physiology
HSCP 4010 Health & Human Development
PHYS 1111K Introductory Physics I
PHYS 1112K Introductory Physics II
PSYC 1101 Introduction to Psychology (if not taken in Core Area E)
PSYC 3280 Abnormal Psychology
RESP 2110 Medical Terminology
RHAB 1000 Introduction to Rehabilitation Sciences
RHAB 4000 Application of Research to the Rehabilitation Professions
RHAB 4100 Neuroscience for the Rehabilitation Professions
RHAB 4111 Pathophysiology for the Rehabilitation Professions I
RHAB 4112 Pathophysiology for the Rehabilitation Professions II

C. Electives ...................................................................................................................................... 15-18 hours
15 hours must be at or above the 3000 level.

Total Semester Hours .................................................................................................................... 124 hours

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
COMMUNICATION SCIENCES AND DISORDERS

A. General Requirements (Core Areas A, B, C, D.IIb, and E) ......................................................... 42 hours
Core Area F ..................................................................................................................................... 18 hours
CHEM 1151 Survey of Chemistry I
CHEM 1151L Survey of Chemistry I Laboratory
CSDS 1220 Introduction to Communication Disorders
HSCC 2500 Health Issues & Resources
HLPR 2000 Introduction to Research in the Health Professions
HSCC 2200 Health Communication
PSYC 2950 Lifespan Developmental Psych
Physical Education .......................................................................................................................... 3 hours
First-Year Seminar .......................................................................................................................... 1 hour

B. Major Field Courses .................................................................................................................. 33 hours
CSDS 2230 Anatomy and Physiology of Speech and Hearing Mechanisms
CSDS 2240 Normal Speech and Language Development
CSDS 2250 Phonetics
CSDS 3400 Speech Science
CSDS 3410 Introduction to Audiology
CSDS 3420 Language Disorders
CSDS 3430 Organically Based Communication Disorders
CSDS 3450 Articulation Disorders
CSDS 4050 Intercultural Communication
CSDS 4190 Clinical Methods in Speech-Language Pathology
CSDS 4151 Clinical Writing for the Health Professions

C. Related Field Courses ................................................................................................................. 15 hours
EDUC 3300 Educating Students w/Disabilities
RHAB 4000 Application of Research to the Rehabilitation Professions
PSYC 3400 Introduction to Learning
PSYC 5060U Basic Behavior Principles and Behavior Change
GERO 5500U Survey of Gerontology

D. Electives ........................................................................................................................................ 12-15 hours
At least six hours of electives must be courses numbered 3000 or above. PSYC 1101 Introduction to Psychology should be taken if not taken in Area E.

Total Semester Hours 124 hours
College of Liberal Arts
David Wheeler, Interim Dean
Teresa Winterhalter, Assistant Dean

Philosophy and Goals
Central to the university's mission, The College of Liberal Arts enhances and develops “programs that emphasize critical reading, informed analysis, problem solving, written and oral communication, and other intellectual skills needed for leadership as citizens and professionals.” The College offers a rich variety of majors, minors, interdisciplinary programs, and a diverse and challenging array of general education courses—all of which share the goal of providing students with the academic grounding and intellectual flexibility necessary to participate actively in today's rapidly changing world. As students successfully complete their required core courses, electives, and/or liberal arts-based majors and minors, we strive to equip them with the content necessary to understand our world and to foster the habits of mind that will enable them to engage fully in—and even to transform—that world.

The talent and dedication of its faculty also make it possible for the College to offer opportunities to study the arts, humanities, and social sciences beyond the classroom. The College offers numerous opportunities for students to participate in internships, performances, exhibitions, undergraduate research projects, and a wide range of study abroad programs. Because of these rich and varied programs, as well as our unique mission as a regional state university, The College serves as a cultural center and an educational change agent within our community. Armstrong faculty and students provide valuable resources to the community and the region through their work in the performing arts; their contributions to and collaborations with Savannah’s historic sites and museums; their public lectures, media interviews, and published research; and their analytical and advisory work for organizations such as the Center for Regional Analysis.

Organization and Degrees
The College of Liberal Arts includes the Departments of Art, Music, and Theatre; Criminal Justice, Social, and Political Science; Economics; History; Languages, Literature, and Philosophy; and Military Science. In addition, degree programs in Liberal Studies provide an opportunity for broader sampling of the fields listed. The degrees offered in the College of Liberal Arts are:

- Associate of Arts
- Associate of Science with track in:
  - Business
- Associate of Applied Science in Criminal Justice
- Bachelor of Arts in:
  - Art
  - Economics
  - English
  - French: World Languages and Culture
  - Gender Studies
  - History
  - Law and Society
  - Music
  - Political Science
  - Spanish
  - Theatre
- Bachelor of Fine Arts in Visual Art
- Bachelor of Liberal Studies
- Bachelor of Music Education
Bachelor of Science in:
  Art Education
  Business Economics
  Criminal Justice
Master of Arts in:
  History
  Professional Communication and Leadership
Master of Science in:
  Criminal Justice

Those interested in detailed information on graduate programs should refer to the Graduate Studies section of this catalog and to the Armstrong State University Graduate Catalog. Additional information on all undergraduate programs and teacher certification options is found in the sections of the appropriate departments. Information on military science and naval science is located in the Special Programs section. Teacher certification programs are offered in cooperation with the College of Education, approved by the Georgia State Professional Standards Commission, and accredited by the National Council for Teacher Education. Detailed information on teacher certification programs is found in the College of Education section of this catalog.

Minors

Departments in the College of Liberal Arts offer a number of minors. Students may include one or more minors in their programs as circumstances permit. Requirements for specific minors are listed in the section for each department. No courses used to satisfy the requirements of core areas A through E can be counted toward a minor. Minors earned are noted on students’ transcripts.

Interdisciplinary Programs

The College of Liberal Arts is the home of three interdisciplinary majors (Bachelor of Arts in Gender Studies, Bachelor of Liberal Studies, Bachelor of Arts in Law and Society) and several interdisciplinary minors and certificates. Each of these programs uses curriculum from several disciplines. Complete descriptions of these majors, minors, and certificates are found under Interdisciplinary Degree Programs and Interdisciplinary Certificates and Minors.

ART, MUSIC, AND THEATRE

Faculty
Tom Cato, Department Head
James Anderson  Carol W. Benton  Cynthia Costa  Elizabeth Desnoyers-Colas  Elissa Frankino  Rachel Green  Emily Grundstad-Hall  Robert Harris  John Hom  Angela Ryczkowski Horne  Pang-Chieh Hsu  Deborah Jamieson

Karla Jennings  John Jensen  Mark Johnson  Peter Mellen  Mia Merlin  Stephen Primatic  Randall Reese  Pamela Zeigler Sears  Benjamin Warsaw  John E. Wright  Joanna Yoder

Accreditation

Programs in music are accredited by the National Association of Schools of Music for the period 2005-2015.
General Information

The Department of Art, Music, and Theatre offers the bachelor of fine arts in visual arts; the bachelor of arts degree with majors in art, music, and theatre; the bachelor of music education degree; and, in cooperation with the College of Education, the bachelor of science in art education.

Admission Requirements

College-level study of art, music, and theatre requires considerable background as well as basic proficiency. All entering students in music (including transfer students) must take placement examinations as appropriate in applied music, music theory, and music history. Students wishing to major in art are expected to present a portfolio of previous work in at least one medium. Course work at other institutions in studio art may not be counted towards graduation until a portfolio of artwork is submitted demonstrating competency in areas in which classes have been completed.

Special Requirements

A variety of departmental policies and regulations affects music majors, including requirements for recital attendance, ensemble participation, piano proficiency, recital participation, applied music levels, and the Rising Junior Applied Music Examination. These rules are listed in the Handbook of Policies and Regulations for Music Majors, available in the departmental office.

Please see the Fees section of this catalog for information on applied music fees.

Progress Requirements

To earn a bachelor’s degree in art, music or drama/speech, students must complete with a grade of C or better all art, music or drama/speech courses required in the program of study. To fulfill the prerequisites for any art, music or drama/speech course students must obtain a grade of C or better in each prerequisite course.

Minors

Art ............................................................................................................................... 15-18 hours
ARTS 1020 or ARTS 1030 (if not taken in the core)
One lower division studio art course taken from ARTS 1010, 1011, 2040, 2110, or 2150
ARTS 2710 or ARTS 2720
Nine semester hours of upper division art courses from the art studio and/or art history areas from the following list: ARTS 3030, 3040, 3110, 3130, 3140, 3150, 3170, 3210, 3220, 3230, 3240, 3300, 3310, 3330, 3350, 3400, 3620, 3630, 3640, 3660, 3700, 3710, 3720, 3810, 4140, 4890, 4891, and 5750U

Art History .................................................................................................................. 15-18 hours
ARTS 1020 or 1030 (if not taken in the core)
ARTS 2710 (if not taken in the core), ARTS 2720 (if not taken in the core), ARTS 5750
Six semester hours of ARTS 4891

Graphic Design ........................................................................................................... 15-18 hours
ARTS 1020 (if not taken in the core), ARTS 2110, ARTS 2150
Nine semester hours from: ARTS 3110, 3210, 3220, 3230 and 3240.

Music .......................................................................................................................... 18 hours
MUSC 1100, 1200, 1210, 1230
Two courses (4-6 semester hours) selected from MUSC 3710, 3720, 4200, 5430U
4-6 semester hours from any music course
NOTE: Nine semester hours must be 3000-level or above.

Theatre ....................................................................................................................... 15 hours
Three semester hours from: THEA 1100, 1200, 2270, 2410
Twelve semester hours from: any 3000-4000 level THEA courses
Theatre Management...................................................................................................... 15 hours
THEA 3470 or ARTS 3470 or MUSC 3470, THEA 3570, THEA 3800, THEA 3810, COMM 3060

Theatre Technology and Design..................................................................................... 15 hours
THEA 2690, 3040, 4040
Six semester hours from the following: THEA 3700, 3740, 3750, 3751, 3760, 3850, 4470, or
approved THEA 4000 design course

Video/Film ....................................................................................................................... 15 hours
THEA 3800, 3810, 4420, 4430
Three semester hours from: THEA 3270, 3600, or approved THEA 4000 course or any FILM
course

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ART
A.  General Requirements
Core Areas A, B, C, D.I, and E ................................................................................ 42 hours
Core Area F ............................................................................................................... 18 hours
   ARTS 1010 Drawing I
   ARTS 1011 Drawing II
   ARTS 1020 2D Design
   ARTS 1030 3D Design
   ARTS 2011 Painting I
   ARTS 2710 Art History I
Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B.  Major Field Courses ................................................................................................. 39 hours
   ARTS 2012 Painting II
   ARTS 2040 Photography
   ARTS 2150 The Computer in Art
   ARTS 2400 Introduction to Craft
   ARTS 2720 Art History II
   ARTS 3130 Drawing III
   ARTS 3300 Ceramics I
   ARTS 3400 Printmaking I
   ARTS 3700 Figure Sculpture
   ARTS 4720 Leadership in the Visual Arts
   ARTS 4740 Senior Exhibition
   ARTS 5750U Contemporary Art & Criticism
Two studio courses (3000 and above) from one of the following areas: drawing and painting,
sculpture, ceramics, crafts, or photography

C.  Related Field Courses ................................................................................................. 6 hours
   Foreign Language 1002 Elementary Language II
   Foreign Language 2001 Intermediate Language I

D.  Electives ..................................................................................................................... 15 hours
   15 semester hours of courses at the 3000 level or above

Total Semester Hours .................................................................................................. 124 hours

E.  Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF FINE ARTS IN VISUAL ART
A.  General Requirements
Core Areas A, B, C, D.I, and E ................................................................................ 42 hours
Core Area F ............................................................................................................... 18 hours
   ARTS 1010 Drawing I
   ARTS 1011 Drawing II
ARTS 1020 2D Design  
ARTS 1030 3D Design  
ARTS 2011 Painting I  
ARTS 2710 Art History I  

Physical Education ........................................................................................................ 3 hours  
First-Year Seminar .......................................................................................................... 1 hour  

Admission to the B.F.A. program (see Admission Requirements)  

B. Major Field Courses .................................................................................................... 18 hours  
ARTS 2012 Painting II  
ARTS 2040 Photography  
ARTS 2150 The Computer in Art  
ARTS 2400 Introduction to Craft  
ARTS 3300 Ceramics I  
ARTS 3400 Printmaking I  

C. Art History Courses .................................................................................................... 9 hours  
ARTS 2720 Art History II  
ARTS 4891 Selected Studies in Art History  
ARTS 5750U Contemporary Art & Criticism  

D. Studio Art Electives .................................................................................................. 27 hours  
27 hours chosen from the following:  
ARTS 2110 Introduction to Graphic Design  
ARTS 3030 Oil Painting  
ARTS 3040 Watercolor Painting  
ARTS 3110 Advanced Graphic Design  
ARTS 3130 Drawing III  
ARTS 3140 Intermediate Photography  
ARTS 3150 Color Photography  
ARTS 3170 Experimentation in Photography  
ARTS 3210 Typography  
ARTS 3220 Corporate Logo and Identity Design  
ARTS 3230 Packaging Design  
ARTS 3240 Visual Design on the Web  
ARTS 3310 Pottery Techniques  
ARTS 3330 Ceramic Sculpture  
ARTS 3350 Glaze Experimentation  
ARTS 3620 Jewelry/Enameling  
ARTS 3630 Fabric Design  
ARTS 3640 Weaving  
ARTS 3660 Papermaking  
ARTS 3700 Figure Sculpture  
ARTS 3710 Sculpture Materials  
ARTS 3720 Fiber Sculpture  
ARTS 3810 Introduction to Digital Photography  
ARTS 4140 Figure Drawing  
ARTS 4890 Selected Studies in Art (up to 9 hrs)  
ARTS 4900 Independent Study  

D. Capstone Courses ....................................................................................................... 6 hours  
ARTS 4750 B.F.A. Project  
ARTS 4720 Leadership in the Visual Arts  
ARTS 4740 Senior Exhibition  

Total Semester Hours .................................................................................................... 124 hours  

E. Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN ART EDUCATION

A. General Requirements
   Core Areas A, B, C, D.I and E ................................................................. 42 hours
   Area F ........................................................................................................... 18 hours
      ARTS 1010 Drawing I
      ARTS 1020 2D Design
      ARTS 1030 3D Design
      ARTS 2710 Art History I
      EDUC 2110 Investigating Critical and Contemporary Issues in Education
      EDUC 2130 Exploring Learning & Teaching
   Physical Education ........................................................................................ 3 hours
   First-Year Seminar .......................................................................................... 1 hour

B. Major Field Courses ...................................................................................... 48 hours
   ARTS 1011 Drawing II
   ARTS 2011 Painting I
   ARTS 2012 Painting II
   ARTS 2040 Photography
   ARTS 2150 The Computer in Art
   ARTS 2400 Introduction to Craft
   ARTS 2720 Art History II
   ARTS 3300 Ceramics I
   ARTS 3400 Printmaking I
   ARTS 3700 Figure Sculpture
   ARTS 5400U Art in Elementary Grades
   ARTS 5410U Art in the Middle and Secondary Grades
   ARTS 5430U Technology in Art Education
   ARTS 5500U Curriculum and Methods in Art Education
   ARTS 5750U Contemporary Art and Criticism
   Six semester hours of upper division studio courses from one of the following areas: drawing and painting, sculpture, ceramics, crafts, or photography.

C. Related Field Courses .................................................................................... 21 hours
   ARTS 3760 Internship I Pre-Student Teaching
   ARTS 4760 Internship II Student Teaching
   EDUC 2120 Exploring Socio-cultural Perspectives on Diversity in Education Contexts
   EDUC 3100 Technology Applications for Teachers
   EDUC 3300 Strategies for Teaching Students with Disabilities

Total Semester Hours .......................................................................................... 133 hours

D. GACE Basic Skills Assessment, admission to candidacy in the Department of Art, Music and Theatre, education teaching portfolio, admission to Internship II, successful completion of GACE content area examinations, criminal background check, senior exhibition, gallery talk.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC

Liberal Arts Option

A. General Requirements Core Areas A, B, C, D.I, and E ................................. 42 hours
   Core Area F .................................................................................................. 18 hours
      MUSC 1200 Foundations of Music Theory
      MUSC 1210 Aural Skills I
      MUSC 1230 Keyboard Harmony I
      MUSC 1400 (2 semesters) Applied Music
      MUSC 1500 Diatonic Music Theory
      MUSC 1510 Aural Skills II
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUSC 1530 Keyboard Harmony II</td>
<td>3</td>
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<tr>
<td>MUSC 2100 Chromatic Harmony</td>
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<td>MUSC 2110 Aural Skills III</td>
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<td><strong>Physical Education</strong></td>
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<td><strong>First-Year Seminar</strong></td>
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<td><strong>B. Major Field Courses</strong></td>
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<tr>
<td>MUSC 1000 Recital Attendance (7 semesters)</td>
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<td>MUSC 2130 Keyboard Harmony III</td>
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<td>MUSC 2400 (2 semesters) Applied Music</td>
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<td>MUSC 2810 Conducting</td>
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<td>MUSC 3120 Form &amp; Analysis</td>
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<td>MUSC 3540 (four semesters) University Chorale or MUSC 3560 (four semesters) Wind Ensemble</td>
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<td>MUSC 3710 Music History I</td>
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<td>MUSC 3720 Music History II</td>
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<td>One course selected from:</td>
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<td>MUSC 3610 Orchestration &amp; Arranging</td>
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<td>MUSC 4110 Composition (2 credits)</td>
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<td>MUSC 4120 Counterpoint</td>
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<td>MUSC 4200 Piano Literature I</td>
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<td>MUSC 4210 Piano Literature II</td>
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<td>MUSC 4290 Art Song</td>
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<td>MUSC 4320 Symphonic Literature</td>
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<td>MUSC 5430U Technology in Music</td>
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<td><strong>C. Related Field Courses</strong></td>
<td><strong>12</strong></td>
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<tr>
<td>Foreign Language 1002</td>
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<td>Foreign Language 2001</td>
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<td>Two courses selected from:</td>
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<td>ARTS 2720 Art History II</td>
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<td>Any 3000 level or above Art History, Foreign Language or Theatre Courses</td>
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<td><strong>D. Elective Courses</strong></td>
<td><strong>28</strong></td>
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<td>At least 22 hours must be at the 3000 level or above, with a minimum of 7 of those hours in music. No more than 10 hours of music electives may be taken.</td>
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<td><strong>Total Semester Hours</strong></td>
<td><strong>124</strong></td>
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<td>MUSC 2130 Keyboard Harmony III</td>
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C. Concentration Electives ................................................................. 28 hours
Select one of the following track options:

**Keyboard Performance**
- MUSC 4400 (2 semesters) Applied Music
- MUSC 4450 Full Recital
- MUSC 4850 Senior Project
- MUSC 2580 Keyboard Accompanying
- MUSC 4200 Piano Literature I
- MUSC 4210 Piano Literature II
- MUSC 4250 Keyboard Pedagogy
- 12 hours of music electives

**Vocal Performance**
- MUSC 4400 (2 semesters) Applied Music
- MUSC 4450 Full Recital
- MUSC 4850 Senior Project
- MUSC 2171 Lyric Diction I
- MUSC 2172 Lyric Diction II
- Foreign Language 1002
- Foreign Language 2001
- MUSC 4270 Vocal pedagogy
- 8 hours of music electives, with at least three hours at 3000 level or above.

**Winds, Strings or Percussion Performance**
- MUSC 4160 Instrumental Pedagogy and Repertoire
- MUSC 4350 Band Repertoire and Advanced Instrumental Conducting
- MUSC 4400 (2 semesters) Applied Music
- MUSC 4450 Full Recital
- MUSC 4850 Senior Project
- One course appropriate to major instrument selected from:
  - MUSC 2360 Brass Methods
  - MUSC 2370 Woodwind Methods
  - MUSC 2380 Percussion Methods
  - MUSC 2390 String Methods
- 8 hours of elective ensembles from the following list:
  - MUSC 3550, 3510, 3520, 3530, 3540, 3570, 3580, 4890 or other approved ensembles.
- 6 hours of music electives.

**Composition**
- MUSC 2270 Class Voice
- MUSC 2360 Brass Methods
- MUSC 2370 Woodwind Methods
- MUSC 2380 Percussion Methods
- MUSC 2390 String Methods
MUSC 4110 (8 semester hours) Composition
MUSC 4460 Composition Portfolio
13 hours of music electives, with at least three hours at the 3000 level or above.

Total Semester Hours 124 hours

E. General Education Exit Exam, Piano Proficiency Exam, Major Field Exit Exam, Half Recital, and Full Recital (Performance Tracks only)

PROGRAM FOR THE DEGREE OF BACHELOR OF MUSIC EDUCATION

A. General Requirements
Core Areas A, B, C, D, I, and E ................................................................. 42 hours
Area F ......................................................................................................................... 18 hours
   MUSC 1200 Foundations of Music Theory
   MUSC 1210 Aural Skills I
   MUSC 1230 Keyboard Harmony I
   MUSC 1400 (2 semesters) Applied Music
   MUSC 1500 Diatonic Music Theory
   MUSC 1510 Aural Skills II
   MUSC 1530 Keyboard Harmony II
   MUSC 2100 Chromatic Harmony
   MUSC 2110 Aural Skills III
Physical Education ................................................................................................. 3 hours
First-Year Seminar ................................................................................................. 1 hour

B. Major Field Courses ......................................................................................... 35 hours
   MUSC 1000 (7 semesters) Recital Attendance
   MUSC 2130 Keyboard Harmony III
   MUSC 2360 Brass Methods
   MUSC 2370 Woodwind Methods
   MUSC 2380 Percussion Methods
   MUSC 2390 String Methods
   MUSC 2400 (2 semesters) Applied Music
   MUSC 2810 Conducting
   MUSC 3120 Form and Analysis
   MUSC 3400 (2 semesters) Applied Music
   MUSC 3450 Half Recital
   MUSC 3540 (6 semesters) University Chorale or MUSC 3560 (6 semesters) Wind Ensemble
   (in addition to Area F requirements)
Select one of the following:
   MUSC 3610 Orchestration and Arranging
   MUSC 4120 Counterpoint
   MUSC 3710 Music History I
   MUSC 3720 Music History II
   MUSC 5300U Curriculum and Methods in General Music
   MUSC 5430U Technology in Music

C. Concentration Electives ................................................................................ 7 hours
Select one of the following track options:
Choral
   MUSC 2171 Lyric Diction I or MUSC 4270 Vocal Pedagogy
   MUSC 4360 Choral Repertoire and Advanced Choral Conducting
   MUSC 5340U Choral Methods
Instrumental
   MUSC 1300 (1 semester of secondary instrument and/or voice) Applied Music
   MUSC 2270 Class Voice (one semester) or MUSC 3530/3540 Choral Ensemble
   MUSC 4350 Band Repertoire and Advanced Instrumental Conducting
   MUSC 5330U Band Methods
Elementary
Choose the course pair or single class option below:
MUSC 1300 (One semester in a secondary area) and MUSC 2270 Class Voice
or
MUSC 2171 Lyric Diction
One course sequence selected from the following:
MUSC 4360 Choral Repertoire and Advanced Choral Conducting and MUSC 5340U Choral Methods
or
MUSC 4550 Band Repertoire and Advanced Instrumental Conducting and MUSC 5330U Band Methods

Group Keyboard Pedagogy
MUSC 4200 Piano Literature I
MUSC 4210 Piano Literature II
MUSC 4250 Keyboard Pedagogy
MUSC 4251 Group Keyboard Pedagogy

D. Related Field Courses ........................................................................................................ 27 hours
EDUC 2110 Investigating Critical and Contemporary Issues in Education
EDUC 2120 Exploring Socio-cultural Perspectives on Diversity in Education Contexts
EDUC 2130 Exploring Learning & Teaching
EDUC 3300 Strategies for Teaching Students with Disabilities
EDUC 3100 Technology Applications for Teachers
MUSC 3760 Internship I Pre-Student Teaching
MUSC 4760 Internship II Student Teaching

Total Semester Hours 133 hours

E. Georgia Assessment for the Certification of Educators (GACE) Program Assessments or exemption scores; admission to candidacy in the Department of Art, Music and Theatre; evidence of professional tort liability insurance valid for a period no less than three (3) years from the date of admission to candidacy or exemption; GACE content area examinations passed; admission to Internship II; criminal background check or exemption; content pedagogy assessment; piano proficiency exam, half-recital.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN THEATRE

A. General Requirements
Core Areas A, B, C, D.I, and E ................................................................................................. 42 hours
Area F ....................................................................................................................................... 18 hours
THEA 2270 (3 semesters) Theatre Lab
THEA 2690 – Introduction to Design
COMM 2280 Speech Communication
One course selected from:
THEA 1100 Theatre Appreciation
THEA 1200 Introduction to Theatre
THEA 2410 Oral Interpretation
Two course sequence in a foreign language beyond 1001

Physical Education ................................................................. 3 hours
First-Year Seminar ................................................................. 1 hour

B. Major Field Courses ........................................................................................................ 51 hours*
THEA 3000 Acting I
THEA 3040 Stagecraft
THEA 3460 Play Directing
THEA 3600 Script Analysis
THEA 4950 Capstone-Senior Thesis/Project (3 sem hours)

*At least 39 hours must be taken at the upper level.
Track One: Performance Track
THEA 3030 Creative Dramatics
THEA 3420 Acting II
THEA 3700 Scene Design, or THEA 3750 Introduction to Light Design
THEA 4420 Acting for the Camera
24 hours selected from the following:
   Any THEA courses 3000 and above
   ENGL 5435U Topics in Drama
   ENGL 5455U Shakespeare
   FILM 3400 History of Film
   FILM 3500 Introduction to Film
   FILM 5010U Topics in Film
   FILM 5035U Film Theory and Criticism
   MUSC 1300 Applied Music
   MUSC 2171 Lyric Diction I
   PEBC 1501 Beginning Modern Dance
   PEBC 1502 Folk, Social & Contemporary Dancing
   PEBC 1530 Intermediate Modern Dance
   PEBC 1551 Basic Ballet
   PEBC 1552 Intermediate Ballet
   PEBC 1580 Jazz Dancing
   SPAN 4080 Spanish Peninsular Theatre
   SPAN 4090 Spanish American Theatre
   THEA 1400 Theatre Voice I
   THEA 1500 Theatre Voice II

Track Two: Design/Technical Track
THEA 3700 Scene Design
THEA 3750 Introduction to Light Design
THEA 4470 Stage Managers and Designers Lab (must be taken three times)
24 hours selected from the following:
   Any THEA courses 3000 or above
   ARTS 1010 Drawing I
   ARTS 1020 Two-Dimensional Design
   ARTS 2400 Introduction to Crafts
   ARTS 2710 Art History I
   ARTS 2720 Art History II
   ARTS 3630 Fabric Design

Track Three: Management Track
COMM 3050 Interpersonal and Small Group Communications or COMM 3060 Public Relations
ACCT 2101 Principles of Financial Accounting
THEA 3470 Theatre Management I
THEA 3570 Theatre Management II
THEA 3800 Video Production I or THEA 4420 Acting for the Camera
3 hours selected from:
   ENGL 3720 Business and Technical Communication
   ENGL 5740U Technical Editing
   ENGL 5750U Publication Design
3 hours selected from:
   ECON 2106 Principles of Microeconomics
   MGMT 3111 Skills in Entrepreneurship
   MKTG 3210 Principles of Marketing
15 hours selected from the following:
   Any THEA course 3000 or above
   ARTS 1020 Two-Dimensional Design
   ARTS 2040 Introduction to Photography
   ARTS 2110 Graphic Design
   ARTS 3140 Intermediate Photography
   ARTS 3800 Electronic Image Manipulation
   ECON 2106 Principles of Microeconomics
   ENGL 3720 Business And Technical Communication
   ENGL 5740U Technical Editing
   MGMT 3220 Management
C. Free Electives .............................................................................................................. 9 hours

Total Semester Hours...................................................................................................... 124 hours
D. Exit Exam

CRIMINAL JUSTICE, SOCIAL AND POLITICAL SCIENCE

Faculty
Daniel Skidmore-Hess, Department Head
Gregory Anderson, Kimberly Martin
Katherine Bennett, Leonard McCoy
Maxine Bryant, Dennis Murphy
Becky Kohler da Cruz, Edward Rinalducci
José de Arimatéia da Cruz, Nalanda Roy
Michael Donahue, Laura Seifert
Virginia Hutton Estabrook, Henry Christian Tecklenburg
Alison Hatch, Lara Wessel
Kevin Jennings, Jennifer Wyse

General Information

The Department of Criminal Justice, Social and Political Science (www.cjsocpols.armstrong.edu) offers associate of applied science, bachelor, and master of science degree programs in criminal justice, and a bachelor of arts in political science. Internships and practica, designed to foster leadership skills within public service, are available. Students in political science must take a foreign language through the intermediate level.

The department endorses the ideal of liberal arts and views it as foundational for work in all academic and professional areas. As such, all departmental programs and courses are conceptually-based so that students will develop the theoretical sophistication to understand and manage the practical realities of the field. Instructional effectiveness, public service, and scholarly activity are inseparable components of this curricular integrity. The department encourages original research by both faculty and students, and supports community service through such vehicles as the university’s Public Service Center.

Special Programs

The criminal justice B.S. program is also offered at the Armstrong Liberty Center in Liberty County.

A student may graduate with honors in Criminal Justice or Political Science by completing a project pursuing a special interest within his or her respective discipline. This project is to be reflective of the rigorous academic criteria of both the University’s Honors program and advanced research within the discipline. To be eligible for the honors project, the student must possess an overall GPA of 3.2. Typically, research projects are developed in a required research methods class (CRJU 3100 or POLS 4950 respective of the student’s major) one semester and then completed the
following semester in either POLS 4650 Practicum or CRJU 4900 Directed Research. This project meets the “Honors in the Major” component for the students in the University Honors Program. Pending approval by the student’s honors committee in the department and the University Honors Program, the student’s transcript will be designated accordingly. The awarding of honors requires that students earn an A in the final directed research or readings course. See department for policies.

**Progress Requirements**

All department majors must earn a C or better in all courses required in the program, including courses used to complete Area F in the core and Related Field Courses. All majors are required to take an exit examination (the Major Field Test for their respective field) prior to graduation. All courses in the minor also require a C or better.

**Minors**

Cyber Security ................................................................. 18 hours
The Department of Criminal Justice, Social and Political Science participates in offering an interdisciplinary minor in Cyber Security. See details under “Interdisciplinary Certificates and Minors” in this catalog.

Criminal Justice ............................................................... 18 hours
CRJU 1100, CRJU 2020, CRJU 3170, CRJU 3300, CRJU 5300U, CRJU 5500U.

International Studies .......................................................... 18 hours
The Department of Criminal Justice, Social and Political Science participates in offering an interdisciplinary minor in International Studies. See details under “Interdisciplinary Certificates and Minors” in this catalog.

Legal Studies ................................................................. 18 hours
POLS 4171, CRJU/POLS 5500U, and any four of the following:
  - HISC 3110, LWSO/POLS 4190, POLS 3150, POLS 3160, POLS 4170, POLS 4172, CRJU/POLS 5520U, CRJU 4500, or CRJU 4510

Transnational Crime .......................................................... 15 hours
CRJU 1100, CRJU 3120, CRJU 3210, CRJU/POLS 5520U, CRJU/POLS 5130U, or CRJU 5200U

Political Science ............................................................... 15 hours
Fifteen hours of 3000+ level course work, with at least one course from each of the four areas of concentration:
  - American Political Institutions: POLS 3160, POLS 3170, POLS 3180, POLS 4100, POLS 4110, POLS 4160, POLS 4150, POLS/LWSO 4190
  - International Affairs: POLS 3210, POLS 5210U, POLS 4200, POLS 4540, POLS 5220U, POLS 5290U, POLS 5130U
  - Political Theory: POLS 3320, POLS 3350, POLS/SOCI 3360, POLS 4300
  - Comparative Government: POLS 4540, POLS/SOCI 5450U, POLS 5460U, POLS 5490U, POLS 4400, POLS 5420U

Sociology ................................................................. 15 hours
SOCL 1101 and 12 credit hours of upper division sociology course work.

**Certificate Program**

For this certificate, the student must complete at least 18 semester hours of course work from Armstrong State University.

**Undergraduate Certificate in Criminal Justice** ......................................................... 30 hours
ENGL 1101 Composition I
ENGL 1102 Composition II
HIST 1111 Civilization I or HIST 1112 Civilization II
One course selected from:
- MATH 1001 Quantitative Skills and Reasoning
- MATH 1111 College Algebra
- MATH 1113 Pre-calculus Mathematics

One course selected from:
- ARTS 1100 Art Appreciation
- ARTS/MUSC 1270 World Art and Music
- ARTS 2710 Art History I
- ARTS 2720 Art History II
- MUSC 1100 Music Appreciation
- THEA 1100 Theatre Appreciation
- THEA 1200 Introduction to Theatre
- THEA 2410 Oral Interpretation
- CRJU 1100 Introduction to Criminal Justice
- CRJU 2410 Introduction to Corrections
- CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice
- CRJU 2210 Introduction to Law Enforcement

One course selected from:
- CRJU 2200 Criminal Investigation
- CRJU 3190 Criminal Law

Total 30 hours

PROGRAM FOR THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE IN CRIMINAL JUSTICE

A. General Requirements: Core Areas ................................................................. 28 hours
   ENGL 1101 Composition I
   ENGL 1102 Composition II
   MATH 1001 Quantitative Skills and Reasoning or MATH 1111 College Algebra
   HIST/POLS 1100 Political History of America and Georgia
   PSYC 1101 Introduction to Psychology
   SOCI 1101 Introductory Sociology
   One course from the following:
   - HIST 2111, HIST 1112, HIST 2112, POLS 2100, ANTH 1102, ECON 2105
   One course from the following:
   - ENGL 2100, ARTS 1100, ARTS 2710, ARTS 2720, THEA 1100, MUSC 1100,
     PHIL 2010, PHIL 2030
   One course from the following:
   - BIOL 1107/1107L, CHEM 1211/1211L, PHYS 1111K, PHSC 1211/1211L

Physical Education ......................................................................................... 2 hours

First-Year Seminar ....................................................................................... 1 hour

B. Major Field Courses .................................................................................. 30 hours
   CRJU 1100 Introduction to Criminal Justice
   CRJU 1130 Interpersonal Communication Skills
   CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice
   CRJU 2210 Introduction to Law Enforcement
   CRJU 2410 Introduction to Corrections
   CRJU 3300 Criminology
   CRJU 3500 Criminal Evidence and Procedure
   CRJU 5300U Juvenile Delinquency
   CRJU Electives

Total Semester Hours 61 hours

C. Exit Examinations
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

Track I: General Criminal Justice

A. General Requirements

Core Areas A, B, C, D.I, and E  ................................................................................ 42 hours
Area F  ......................................................................................................................... 18 hours
  CRJU 1100 Introduction to Criminal Justice
  CRJU 1130 Interpersonal Communication Skills
  CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice
  CRJU 2210 Introduction to Law Enforcement
  CRJU 2410 Introduction to Corrections
  MATH 2200 Elementary Statistics
Physical Education ........................................................................................................ 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses  ................................................................................................. 33 hours
  CRJU 3100 Research Methods
  CRJU 3170 Criminal Justice Administration
  CRJU 3300 Criminology
  CRJU 3500 Criminal Evidence and Procedure
  *CRJU 4800 Internship I (six credit hours)
  *CRJU 4810 Internship II (six credit hours)
  CRJU 5300U Juvenile Delinquency
  CRJU 5500U Law and Legal Process
Capstone course (one course selected from):
  CRJU 4900 Directed Research in Criminal Justice
  CRJU 4910 Seminar in Criminal Justice
*Students for whom these courses are inappropriate may petition to substitute 12 advisor-approved upper division credits appropriate to the Major. If a student takes only CRJU 4800, then he or she must substitute six hours of advisor-approved upper division credits.

C. Related Field Courses  ................................................................................................. 6 hours
  POLS 2200 Introduction to American Government
  One course selected from:
    SOCI 1101 Introductory Sociology
    PSYC 1101 Introduction to Psychology

D. Approved electives  .................................................................................................... 21 hours
  6 hours must be at the 3000+ level

Total Semester Hours  .................................................................................................. 124 hours

E. Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs

Track II: Cyber Crime

A. General Requirements

Core Areas A, B, C, D.I, and E  ................................................................................ 42 hours
Area F  ......................................................................................................................... 18 hours
  CRJU 1100 Introduction to Criminal Justice
  CRJU 1210 Introduction to Cyber Crime
  CRJU 2210 Introduction to Law Enforcement
  CRJU 2410 Introduction to Corrections
  CSCI 1150 Fundamentals of the Internet and World Wide Web
  MATH 2200 Elementary Statistics
Physical Education ........................................................................................................ 3 hours
First-Year Seminar ........................................................................................................ 1 hour
B. Major Courses ........................................................................................................... 33 hours
   CRJU 3100 Research Methods
   CRJU 3160 White-Collar and Organized Crime
   CRJU 3170 Criminal Justice Administration
   CRJU 3190 Criminal Law
   CRJU 3300 Criminology
   CRJU 3500 Criminal Evidence and Procedure
   CRJU 5010U Digital Forensics I
   CRJU 5020U Digital Forensics II
   CRJU 5130U Political Terrorism
   CRJU 5500U Law and Legal Process
   Capstone course:
   CRJU 4910 Seminar in Criminal Justice
C. Related Field Courses ................................................................................................. 9 hours
   MATH 1111 College Algebra
   ITEC 1310 Programming for Information Technology
   CSCI 2070 Introduction to Computer Ethics and Cyber Security
D. Approved Electives ..................................................................................................... 6 hours
   6 hours of electives at the 3000+ level.
E. Free Electives ............................................................................................................ 12 hours
Total Semester Hours 124 hours
F. Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE
A. General Requirements
   Core Areas A, B, C, D, I, and E ................................................................. 42 hours
   Area F .............................................................................................................. 18 hours
   MATH 2200 Elementary Statistics
   POLS 2200 Introduction to American Government
   One of the following:
       POLS 1150 World Politics
       POLS 1200 Ethics in Government
       POLS 2290 Foundations of International Relations
   Nine hours of a foreign language sequence numbered 1002 or above
   Physical Education ......................................................................................... 3 hours
   First-Year Seminar ......................................................................................... 1 hour
B. Major Field Courses .................................................................................................. 33 hours
   POLS 2100 Introduction to Political Science
   Ten courses from the following with at least one course from each area:
   American Political Institutions
       POLS 3150 American Supreme Court
       POLS 3160 Judicial Politics and Strategies
       POLS 3980 African Americans & the American Political System
       POLS 3990 Special Topics in Political Science
       POLS 4100 Independent Study in American Government
       POLS 4110 American Presidency
       POLS 4160 American Congress
       POLS 4170 Constitutional Law and the Federal System
       POLS 4171 Constitutional Civil Liberties
       POLS 4190 Environmental Laws and Regulations
       POLS 4210 Politics of Public Policy
POLS/SOCI 4220 Politics of Economic Inequality
CRJU/POLS 5500U Law and Legal Process

Political Theory
- POLS 3320 American Political Thought
- POLS 3340 Politics and Ideology in Contemporary Europe
- POLS 3350 Classics of Political Thought
- POLS 3360/SOCI 3360 Social Theory
- POLS 3990 Special Topics in Political Science
- POLS 4300 Religion and Political Thought
- POLS 4330 Liberalism and the Modern State
- POLS 5100U Politics and the Visual Arts
- POLS 5300U Marxism, Socialism, and Democracy

International Relations
- POLS 3990 Special Topics in Political Science
- POLS 4200 Independent Study in International Relations
- POLS 4540 International Political Economy
- CRJU/POLS 5130U Political Terrorism
- POLS 5140U Asian Regional Security
- POLS 5210U International Law
- POLS 5220U Theory of International Relations
- POLS 5250U International Organizations
- POLS 5270U Intelligence and National Security Policy
- POLS 5280U Seminar in Global Politics
- POLS 5290U American Foreign Policy
- POLS 5291U Constitutional Law of Foreign Policy
- POLS 5570U Politics & Security in Southwest Asia
- POLS 5510U Third World National Security
- POLS 5530U Global Environmental Politics
- POLS 5550U Insurgency and Counterinsurgency
- POLS 5580U Violent Non-State Actors (VNSAs)

Comparative Politics
- POLS 3990 Special Topics in Political Science
- POLS 4400 Independent Study in Comparative Government
- POLS 5280U Seminar in Global Politics
- POLS 5410U Asia and the United States
- POLS 5420U Politics of the Middle East
- POLS 5430U African Politics
- POLS 5440U Latin American Politics
- SOCI/POLS 5450U Political Sociology of Nationalism
- POLS 5460U Politics of East Asia
- POLS 5490U Political Transformation of the Former Soviet Union
- CRJU/POLS 5520U Comparative Judicial System
- POLS 5560U Comparative Foreign Policy

C. Capstone course ........................................................................................................... 3 hours
POLS 4950 Political Research Methods or CRJU 3100 Research Methods

D. Electives ..................................................................................................................... 24 hours
Including a minimum of 15 hours of upper division courses

Total Semester Hours 124 hours

E. Exit Exam: Area Concentration Achievement Test in Political Science
ECONOMICS

Faculty
Yassaman Saadatmand, Department Head
Omid Ardakani
Dennis Barber III
Jason Beck
Nicholas Mangee
Richard McGrath
Michael Toma
Maliece Whatley

General Information
The Department of Economics at Armstrong State University blends the liberal arts with practical skills to provide students with a rich educational experience and a background for intelligent decision making. Students have the choice of a Bachelor of Arts in Economics or a Bachelor of Science in Business Economics. The department also offers minors in business and in economics, as well as a certificate in financial economics.

B.A. Economics - General Track: provides a thorough understanding of the economy, prepares students for immediate employment in analytically demanding professions, and positions students for graduate study in academic and professional programs.

B.A. Economics - International Track: provides a deep understanding of the international economy, prepares students to compete in a global economy, and qualifies students for policy and professional programs with an international focus.

B.S. Business Economics: provides a foundation in economics while emphasizing business applications and entrepreneurship. It prepares students for employment in the private sector and readies them for graduate study in business.

Depending on their program of study, graduates are prepared to assume positions in business or government, or pursue professional or post-graduate degrees in business, finance, economics, political science, or law. Internships, departmental assistantships, and scholarships are available.

Special Programs
To graduate with departmental honors in Economics, the student must be a member of the Honors Program, graduate with honors in the core, and complete a senior research project with satisfactory written and oral reports (as judged by a committee of faculty) and must have an economics grade point average of at least 3.5.

Progress Requirements
Students must earn a grade of C or better in every course required for the major or minor.

Minors
Business ....................................................................................................................... 15-18 hours
ECON 2105 required if not taken in the core curriculum.
ECON 2106, ACCT 2101, and 9 credits from ECON 3230, MGMT 3111, MGMT 3220, MKTG 3210
ECON 3230, MGMT 3220, and MKTG 3210 may not be used to meet both major and minor requirements.

Economics ....................................................................................................................... 15 hours
ECON 2105 or 2106
Twelve credit hours of upper division economics courses, 3000 and above, except for ECON 5150U.
May not be awarded with a B.S. in Business Economics

Finance ....................................................................................................................... 18 hours
ACCT 2101, ECON 2105, and 12 credits from ECON 3230, ECON 3300, ECON 4100, ECON 4150, ECON 4310
ECON 4100, 4150, and 4310 may not be used to meet both major and minor requirements.
International Studies ................................................................. 18 hours
The Department of Economics participates in offering an interdisciplinary minor in International Studies. See details under “Interdisciplinary Certificates and Minors” in this catalog.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Business Track

A. General Requirements (Core Areas A, B, C, D.I, and E) ........................................ 42 hours
   MATH 2200 Elementary Statistics required in area D.I.3
   Physical Education ................................................................................. 3 hours
   First-Year Seminar ............................................................................... 1 hour

B. Additional Requirements ................................................................. 18 hours
   Choose 18 hours from:
   - ACCT 2101 Principles of Financial Accounting
   - ACCT 2102 Principles of Managerial Accounting
   - BUSA 2106 Environment of Business
   - COMM 2280 Speech Communication
   - ECON 2105 Principles of Macroeconomics
   - ECON 2106 Principles of Microeconomics
   - ITEC 1050 Introduction to Computer Concepts and Applications
   - MATH 1950 Applied Math for Non-Science Majors or MATH 1161 Calculus I

Total Semester Hours 64

C. University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ECONOMICS

A. General Requirements
   Core Areas A, B, C, D.I, and E ......................................................... 42 hours
   Area F .................................................................................................. 18 hours
   ECON 2105 Principles of Macroeconomics
   ECON 2106 Principles of Microeconomics
   MATH 2200 Elementary Statistics
   MATH 1950 Applied Math or MATH 1161 Calculus I
   Six credit hours from one of the following areas:
   - Accounting
     ACCT 2101 Principles of Financial Accounting
     ACCT 2102 Principles of Managerial Accounting
   - Foreign language sequence (1002 and 2001) (required for international track)
   - Mathematics
     MATH 2072 Calculus II
     MATH 2083 Calculus III
   - Information Technology
     CSCI 1150 Fundamentals of the Internet and World Wide Web
     ITEC 1310 Programming for Information Technology
   Physical Education ............................................................................. 3 hours
   First-Year Seminar ............................................................................ 1 hour

Track I: General Economics
B. Major Field Courses ........................................................................... 33 hours
   ECON 3050 Intermediate Macroeconomics
   ECON 3060 Intermediate Microeconomics
   ECON 3700 Econometrics
   ECON 4900 Economic Methods and Senior Thesis
Twenty one credit hours drawn from at least three of the following categories:

**Global**
- ECON 3100 Multinational Economic Enterprises
- ECON 3200 International Trade
- ECON 4310 International Finance
- ECON 4400 Seminar in Third World Economic Development
- ECON 4450 Comparative Economics

**Quantitative**
- ECON 3600 Mathematical Economics
- MKTG 3800 Quantitative Marketing Research

**Applied**
- ECON 3400 Economics of Labor
- ECON 3470 Economics of Health
- ECON 3500 Managerial Economics
- ECON 4451 Industrial Organization
- ECON 4460 Economic Analysis of the Law

**Financial**
- ECON 3230 Finance
- ECON 3300 Money and Banking
- ECON 4100 Financial Economics: Portfolio Analysis
- ECON 4150 Money and Capital Markets

**Public Policy and Economic History**
- ECON 3450 Environmental Economics
- ECON 3460 Economics of Immigration
- ECON 3630 Economic History of the United States
- ECON 4410 Regional Economics
- ECON 4500 Public Finance
- ECON 4550 Public Choice

**Internships and Specialized Courses**
- ECON 3950 Research in Economics
- ECON 3960 Research in International Economics
- ECON 4010, 4020, 5030U Special Topics in Economics
- ECON 4520 Internship (with permission of department head) (maximum of three credits may count toward Major Field Courses)

**C. Related Field Courses** ........................................................................................................... 9 hours

ITEC 1050 Introduction to Computer Concepts and Applications
Six credit hours of upper division courses from the following fields: anthropology, communication, economics, English (3720, 5710, 5740, 5750 only), geography, information technology, management, marketing, mathematics, philosophy, political science, psychology, or sociology.

**D. Electives** ............................................................................................................................. 18 hours

**Track II: International Economics**
The international track requires a language sequence in Area F and at least three credits earned toward the degree in an international study program. Students participating in the international track are expected to choose project, paper, and research topics related to international economics whenever possible.

**B. Major Field Courses** ............................................................................................................ 33 hours

- ECON 3050 Intermediate Macroeconomics
- ECON 3060 Intermediate Microeconomics
- ECON 3200 International Trade
- ECON 3700 Econometrics
- ECON 4310 International Finance
- ECON 4900 Economic Methods and Senior Thesis
Fifteen credit hours drawn from among the following courses:
- ECON 3100 Multinational Economics Enterprises
- ECON 3230 Finance
- ECON 3300 Money and Banking
- ECON 3450 Environmental Economics
- ECON 3460 Economics of Immigration
- ECON 3470 Economics of Health
- ECON 3500 Managerial Economics
- ECON 3960 Research in International Economics
- ECON 4100 Financial Economics: Portfolio Analysis
- ECON 4150 Money and Capital Markets
- ECON 4400 Seminar in Third World Economic Development
- ECON 4450 Comparative Economics
- ECON 4500 Public Finance
- MGMT 3111 Skills in Entrepreneurship
- MGMT 3220 Management
- MKTG 3210 Marketing

C. Related Field Courses ................................................. 9 hours
- ITEC 1050 Introduction to Computer Concepts or CSCI 1060 Computer Concepts and Applications
- Six credit hours of upper division courses outside the economics discipline approved for the International Studies minor.

D. Electives ................................................................. 18 hours

Total Semester Hours 124 hours

E. University exit exam, and department exit exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BUSINESS ECONOMICS

A. General Requirements

Core Areas A, B, C, D.I, and E .............................................. 42 hours
- MATH 2200 Elementary Statistics required in area D.I.3

Area F ................................................................. 18 hours
- ACCT 2101 Principles of Financial Accounting
- ACCT 2102 Principles of Managerial Accounting
- BUSA 2106 Environment of Business
- ECON 2105 Principles of Macroeconomics
- ECON 2106 Principles of Microeconomics
- ITEC 1050 Computer Concepts and Applications

Physical Education ....................................................... 3 hours

First-Year Seminar ......................................................... 1 hour

B. Major Field Courses ................................................... 30 hours

- ECON 3230 Finance
- ECON 3700 Econometrics or ECON/MKTG 3800 Quantitative Marketing Research
- MGMT 3220 Management
- MGMT 4111 Entrepreneurship or ECON 4900 Economic Methods and Senior Thesis
- MKTG 3210 Marketing

Six credits selected from:
- ECON 3050 – Intermediate Macroeconomics and ECON 3060 – Intermediate Microeconomics
- ECON 3050 – Intermediate Macroeconomics and ECON 3500 – Managerial Economics
- ECON 3060 – Intermediate Microeconomics and ECON 3300 – Money and Banking

Six credits selected from:
- ECON 3100 Multinational Economic Enterprises
Three credits of upper division economics, 3000 and above, except for ECON 5150U.

C. Related Field Courses ................................................................................................ 15 hours
   COMM 2280 Speech Communication
   ENGL 3720 Business and Technical Communication
   MATH 1161 Calculus I or Math 1950 Applied Math for Non-Science Majors (if not taken in
   the core)
   PHIL 2030 Introduction to Ethics and Moral Issues
   Three credits from:
   COMM 3060 Public Relations
   COMM 5050U Interpersonal Communication in the Workplace
   COMM 5500U Communication Between the Genders
   ENGL 5710U Writing for the Non-Pro
   ENGL 5740U Technical Editing
   ENGL 5750U Publication Design

D. Electives ...................................................................................................................... 15 hours
   Students must complete a set of courses that would qualify for an academic minor. The student
   may choose to forgo formal awarding of the minor if courses are used in the core curriculum.

Total Semester Hours 124 hours

E. University exit exam, and department exit exam
HISTORY

Faculty
Christopher Curtis, Department Head
Ella Howard, Graduate Coordinator
Olavi Arens
Allison Belzer
Michael Benjamin
Barbara Fertig
Michael Hall
Christopher Hendricks
June Hopkins
Kwaku Nti
Amy Potter
Michael Price
Mary Sanders
Jason Tatlock
James Todesca
Felicity Turner
Hongjie Wang

General Information

The Department of History offers the degrees of bachelor of arts in history and master of arts in history. The degree prepares graduates for entry level employment in such areas as government, public or community service, and business, as well as for graduate study in history and other professional programs (such as law or business). The curriculum in public history prepares graduates for graduate programs as well as entry level employment in the non-profit sector and various cultural resource enterprises. A minor concentration in history enables students to strengthen their research and writing skills and to better understand modern society. The department also offers courses in Geography.

Special Requirements

Students who major in history are required to complete nine semester hours of a foreign language sequence, or demonstrate a proficiency in a foreign language offered by the university, through the second intermediate course. Students should begin their language sequence as soon as possible and certainly not later than their junior year. Students who change majors or transfer may find it necessary to enroll beyond the traditional eight semesters if the degree requirements including foreign language cannot be fulfilled within that time. Students should plan their program of study carefully in consultation with a faculty advisor.

In addition to meeting minimum requirements, students contemplating graduate work in history are strongly advised to continue foreign language study beyond the 2002 level. Students with a double major in which computer science is a language choice may substitute computer science for a foreign language in history.

The program requires HIST 3500 (Introduction to Historical Methods); two of HIST 4020 (Research Seminar in World History) and/or 4030 (Research Seminar in American History). In choosing the remainder of their advanced courses students may choose to concentrate in one particular area of history (e.g. American, World or Pre-modern), but it is highly recommended that students take courses in all three areas.

Special Programs

Honors. Completion of an undergraduate research paper or project approved by the department. Such projects could be, but are not limited to, the product of HIST 4900 (Senior Thesis), an edited and expanded capstone paper from HIST 4020 or 4030 (Research Seminars), or a project approved by the department. See department for policies and application. With distinction awarded for completion of HIST 4990 (Senior Thesis) with grade of A.

Progress Requirements

Completion of the major requires students to complete the major field courses with a grade of C or better. A grade of C or better is also required in Foreign Language 1002, 2001, and 2002. Students minoring in history must complete each history course with a grade of C or better.
Minors

European Union Studies ................................................................. 15 hours
The Department of History participates in offering an interdisciplinary minor in International Studies. See details under “Interdisciplinary Certificates and Minors” in this catalog.

History .......................................................................................... 15 hours
Fifteen hours of 3000, 4000, or 5000U level history courses

International Studies ................................................................. 18 hours
The Department of History participates in offering an interdisciplinary minor in International Studies. See details under “Interdisciplinary Certificates and Minors” in this catalog.

Public History ............................................................................. 15 hours
HIST 4020 or 4030
HIST 3991
Nine hours from the following:
HIST 3800, 3820, 5810U, 5830U, 5850U, 5750U

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN HISTORY

A. General Requirements
Core Areas A, B, C, D,I, and E .................................................. 42 hours
Area F .......................................................................................... 18 hours
HIST 1111 Civilization I or HIST 1112/H Civilization II/Honors
HIST 2111 History of America to 1877 (If taken to satisfy core area E, substitute a humanities or social science course at the 1000 or 2000 level.)
HIST 2112 History of America since 1865 (If taken to satisfy core area E, substitute a humanities or social science course at the 1000 or 2000 level.)
Foreign Language 1002 Elementary Language II
Foreign Language 2001 Intermediate Language I
Foreign Language 2002 Intermediate Language II
Physical Education ................................................................. 3 hours
First-Year Seminar ................................................................. 1 hour

B. Major Field Courses .......................................................... 33 hours
HIST 3500 Introduction to Historical Methods
Six credits (either course may be repeated as topics vary):
HIST 4020 Research Seminar in World History
HIST 4030 Research Seminar in American History
One public history course from the following list:
Seven other history courses at the 3000 level or above (it is highly recommended that students take courses in American, World, and Pre-Modern history)
Portfolio requirement

C. Related Field Courses ......................................................... 12 hours
Twelve semester hours chosen from the social sciences and/or the humanities at the 2000 level or above, excluding history. Six of the hours must be at the 3000 level or above. Only three hours may be study abroad fieldwork, i.e., a course with fewer than three contact hours in the classroom. MATH 2200: Elementary Statistics may substituted as three hours at the 2000 level.

D. Electives .................................................................................. 15 hours
(If core completed elsewhere without foreign language, Foreign Language 1002, 2001, 2002 required in lieu of 9hrs. of electives)

Total Semester Hours .......................................................... 124 hours

E. Major Field Exit Exam
The Department of Languages, Literature, and Philosophy offers the degree of bachelor of arts with majors in English, English (Professional Communications), and Spanish. Minors are available in English, communication, writing, philosophy, linguistics, film, and foreign languages. In addition, the department provides the composition, literature, philosophy, and foreign language courses required by the core curriculum. Students majoring in English should satisfy core curriculum requirements for the bachelor of arts degree during the freshman and sophomore years.

**English Composition Core.** Students should begin the required English core sequence in their initial semester of attendance, and must not delay beginning this sequence beyond their second semester of attendance. Students must earn a grade of C or better in ENGL 1101 to qualify for admission to ENGL 1102. ENGL 1101, 1102, and 2100 courses may not be dropped without permission of the department head. Students who drop these courses without department head approval will receive failing grades in the class.

**Exemptions from Core English.** Students who wish credit exemption for ENGL 1101 must pass the CLEP Freshman College Composition examination, including the essay portion. Students who wish a credit exemption for ENGL 1102 must pass the CLEP Analysis and Interpretation of Literature and Essay examination, including the essay portion. (Passing scores are indicated in the Credit by Examination section of the catalog). Students who score a "3" or higher on the AP exam (English: Language and Composition or Literature and Composition) receive three hours of credit for ENGL 1101. Students who score a "5" on the Literature and Composition AP exam will receive 6 hours of credit for ENGL 1101 and ENGL 1102, provided that they earn a grade of "C" or higher in ENGL 2100.

**Foreign Languages.** Foreign Languages. College preparatory curriculum (CPC) deficiency in foreign languages may be fulfilled by successfully completing any of the 1000-level courses in Spanish or French with a final course grade of C or better. Students may receive credit by examination for French or Spanish provided they meet requirements listed under Credit by Examination in the section on Admissions. All students can benefit from foreign language study and from taking a Foreign Language Placement Exam located on the LLP website. High-school coursework or prior exposure to a foreign language may allow for placement into French or Spanish 1002, 2001, 2002, or beyond - all of which can satisfy core requirements for any Armstrong major. While AP, IB, or
CLEP exams may award course credit, placement test results can identify eligibility for courses beyond the first level including courses in the core curriculum.

Placement Test Calibration (Password: pirates1)
- 0-150, semester 1 (1001)
- 151-250, semester 2 (1002)
- 251-325, semester 3 (2001)
- 401+, 3000 or 4000 level

Students may NOT enroll in courses lower than those indicated by the placement test scores. Students who do will be directed to leave the course with no guarantee of an available seat in the appropriate course. This placement score does NOT constitute enrollment in a language course but can be used to obtain a pre-requisite override to enroll in an upper-level section. For further information, students should contact the department head.

Special Program

Honors. A student may graduate with honors in English by completing a project pursuing a special interest within the discipline. The student will choose a full-time faculty member to direct the project, and he or she must submit a proposal and the finished project for approval to an ad-hoc committee of three full-time faculty members, including the supervising professor. This project may be submitted as the original research project required in ENGL 5990U Senior Capstone Seminar. To be eligible to apply for honors, the student must have completed at least 15 semester hours of upper-division English courses with a GPA of 3.5 in the major or the permission of the department. The student must submit his or her proposal by mid-term of the semester prior to enrollment in the capstone seminar. After the project is completed, the student will make an oral presentation to the committee and interested members of the department, the Honors Program, and the campus community. Upon approval for honors by the committee, the student's transcript will be designated “Honors in English.” The project meets the “Honors in the Major” component for students in the University Honors Program.

Progress Requirements

Students must earn a grade of C or better in each upper-level course included in any major or minor area. A minor must contain 15 to 18 semester hours of course work with at least 9 hours of upper division course work. Courses taken to satisfy core areas A through E may not be counted as course work in the minor.

Students majoring in English are strongly encouraged to take their survey courses (ENGL 2121, 2122, 2131, 2132) early. Survey courses, along with ENGL 3010, should be the main constituent of the first eighteen hours taken in the major. To remain a major in good standing in the program requires a GPA of 2.25 in major courses. After the completion of eighteen hours of major level courses, this average in the field must be maintained. Normally a student would be given one semester to raise his or her average to 2.25 in order to remain in the program.

Minors

English .......................................................................................................................... 15-18 hours
Must include 9 hours of English electives numbered 3000 or above (maximum of 3 hours of 4990)

Communication ........................................................................................................ 15-18 hours
1. Two or three courses from ENGL 3720, 3730, 3800, 4740, 4750, 5700U, 5770U, 5780U, FILM 5025U, JOUR 3430, or JOUR 3460
2. Two or three courses from ENGL 5730U, 5800U, 5820U, JOUR 4000, or FILM 5010U

Film ............................................................................................................................. 15 hours
15 hours of FILM courses numbered 3000 or above

Foreign Languages .................................................................................................... 15 hours
Must include 9 hours of language electives numbered 3000 or above
French ........................................................................................................................................ 18 hours
  FREN 2001 and 2002, if needed
  FREN 2010
  Other French courses to total 18 credit hours. At least 9 hours must be numbered 3000 or above.
Linguistics .................................................................................................................................. 15 hours
  ENGL 3010 and twelve hours of approved electives selected from LING 4700, LING 5000U, LING 5440U, LING 5465U, LING 5800U, LING 5820U, SPAN 4040, SPAN 3050, SPAN 3060, and FREN 3030.
Philosophy .................................................................................................................................. 15-18 hours
  Must include 9 hours of philosophy electives numbered 3000 or above
Writing .......................................................................................................................................... 15 hours
  Must include 15 hours from the following: ENGL 3020, 3720, 3730, 3800, 4740, 4750, 5700U, 5740U, 5750U, 5760U, 5770U, 5780U, JOUR 3270, 3430, 3460.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH
Student will choose one track.

Track I: English
A. General Requirements
   Core Areas A, B, C, D, I, and E .................................................................................. 42 hours
   Area F .................................................................................................................. 18 hours
     ENGL 2100 or 2100H Literature and Humanities (unless taken in area C)
     Two courses (three if ENGL 2100 is taken in area C) selected from:
      ENGL 2121 British Literature I
      ENGL 2122 British Literature II
      ENGL 2131 American Literature I
      ENGL 2132 American Literature II
      Foreign Language 1002 Elementary Language II
      Foreign Language 2001 Intermediate Language I
      Foreign Language 2002 Intermediate Language II
   Physical Education ..................................................................................................... 3 hours
   First-Year Seminar .................................................................................................... 1 hour
B. Major Field Courses ................................................................................................. 36 hours
   Cornerstone Courses
     ENGL 3010 Introduction to Literary Studies
     ENGL 5990U Senior Capstone Seminar
   Historical Period Courses
     Three courses selected from:
      ENGL 5315U 17th and 18th Century American Poetry and Prose
      ENGL 5325U 19th Century American Poetry and Prose
      ENGL 5335U 20th Century American Poetry and Prose
      ENGL 5440U Early English Literature OR ENGL 5465U Chaucer
      ENGL 5455U Shakespeare OR ENGL 5485U Milton
      ENGL 5480U Literature of the English Renaissance
      ENGL 5500U 18th Century British Poetry and Prose
      ENGL 5525U 19th Century British Poetry and Prose
      ENGL 5535U 20th Century British Poetry and Prose
      ENGL 5550U Contemporary Literature
   Literature and Culture Courses
     Two courses selected from:
      ENGL 5200U Postcolonial Literature
      ENGL 5215U Literature of the Non-Western World
      ENGL 5225U Literature of the Western World
      ENGL 5280U Literature and the Environment
ENGL 5340U Literature by Women
ENGL 5350U Topics in African American Literature
ENGL 5380U Southern Literature
FILM 5025U Popular Culture Theory/Criticism
FILM 5510U Film and Literature

**Major Field Electives**
Five courses selected from the 3000+ level ENGL/FILM/JOUR courses

**C. Related Field Courses**
--------------------------------------------------------------- 15 hours
Must include 9 hours numbered 3000 or above.

**D. Electives**
--------------------------------------------------------------- 9 hours

**Total Semester Hours**
----------------------------------------------------------------- 124 hours

**E. Exit Exam**

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**Track II: Professional Communication**

**A. General Requirements**

**Core Areas A, B, C, D.I, and E** .......................................................... 42 hours
**Area F** ........................................................................................................ 18 hours
Enroll 2100 or 2100H Literature and Humanities (unless taken in area C) One course (two if ENGL 2100 is taken in area C), selected from:
- ENGL 2121 British Literature I
- ENGL 2122 British Literature II
- ENGL 2131 American Literature I
- ENGL 2132 American Literature II
- COMM 2280 Speech Communication
- Foreign Language 1002 Elementary Language II
- Foreign Language 2001 Intermediate Language I
- Foreign Language 2002 Intermediate Language II

**Physical Education** ................................................................................. 3 hours

**First-Year Seminar** .................................................................................. 1 hour

**B. Major Field Courses** ............................................................................. 36 hours
ENGL 3700 Introduction to Communications
ENGL 3710 Freelance Writing and Publication
ENGL 3720 Business and Technical Communication
ENGL 3800 Advanced Composition
ENGL 4990 Internship (3-9 hrs)
Twelve semester hours from one of the following categories:

**Technical Communication**
- ENGL 5700U Promotional Writing
- ENGL 5710U Writing for Nonprofits
- ENGL 5730U Rhetoric
- ENGL 5740U Technical Editing
- ENGL 5750U Publication Design
- COMM 3060 Public Relations

**Creative Writing**
- ENGL 3730 Introduction to Creative Writing
- ENGL 4740 Creative Writing (Poetry)
- ENGL 4750 Creative Writing (Fiction)
- ENGL 4760 Scriptwriting
- ENGL 5760U Literary Nonfiction
- ENGL 5770U Advanced Creative Writing, Poetry
- ENGL 5780U Advanced Creative Writing, Fiction
- ENGL 5425U American/British Poetry
Journalism
- JOUR 3200 Introduction to Print and Online Media
- JOUR 3430 News Writing and Reporting
- JOUR 3450 Editing and Markup
- JOUR 3460 Travel and Tourism Writing
- JOUR 4000 Topics in Journalism (Repeatable to 6 hrs)
- JOUR 4100 Public Affairs Reporting

Film Studies
- THEA 3800 Video Production I
- THEA 3810 Video Production II
- FILM 3400 History of Film
- FILM 3500 Introduction to Film
- FILM 5010U Topics in Film
- FILM 5025U Popular Culture Theory and Criticism
- FILM 5030U Television Theory and Criticism
- FILM 5035U Film Theory and Criticism
- FILM 5040U Women and Film
- FILM 5510U Film and Literature

Major Field Electives
Three to nine semester hours of upper division courses (3000-level or above) in ENGL, FILM, or JOUR.

C. Related Field Courses ................................................................. 15 hours
   Must include 9 hours numbered 3000 or above.

D. Electives ..................................................................................... 9 hours
Total Semester Hours ................................................................. 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN FRENCH:
WORLD LANGUAGES AND CULTURES

This fully online program is offered through a consortium of University System of Georgia Schools.

A. General Requirements

Core Areas A, B, C, D, I, and E .......................................................... 42 hours
Area F ............................................................................................. 18 hours
- FREN 1001 Elementary French I
- FREN 1002 Elementary French II
- FREN 2001 Intermediate French I
- FREN 2002 Intermediate French II

Six credit hours selected from the following:
- Foreign Language 1001 and 1002 Elementary Language I/II
- Foreign Language 2001 and 2002 Intermediate Language I/II
- Electives selected from Core Area C and/or Core Area E
- Foreign Language 2002 Intermediate Language II

Physical Education ........................................................................... 3 hours
First-Year Seminar ............................................................................ 1 hour

B. Major Field Courses ................................................................. 33 hours

- ESOL 4010 Applied Linguistics
- FREN 2010 Intermediate Conversation

One of the following classes:
- FREN 3001 French Conversation
- FREN 3002 French Composition

One of the following classes:
- FREN 3150 French Culture and Civilization
- FREN 3160 Francophone Cultures and Civilizations
FREN 3201 Approaches to Literature
One of the following classes:
FREN 3250 Survey of French Literature (Middle Ages to Present)
FREN 3260 Survey of Francophone Literature
FREN 4001 Advanced French Conversation
FREN 4002 Advanced French Composition
FREN 4991 Senior Seminar
6 credit hours of FREN classes at the 3000+ level

C. Electives ..................................................................................................................... 27 hours
A second or third foreign language may be taken. At least 9 credits must be at the 3000+ level.

Total Semester Hours 124 hours

D. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH

A. General Requirements
Core Areas A, B, C, D.I, and E ................................................................................ 42 hours
Area F ......................................................................................................................... 18 hours
SPAN 1002 Spanish II
SPAN 2001 Intermediate Spanish I
SPAN 2002 Intermediate Spanish II
ENGL 2100 Literature and Humanities (if taken in Area C, replace with elective at 1000-2000 level)
Six semester hours of electives at the 1000-2000 level

Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses ................................................................................................. 30 hours
Four to six courses selected from:
SPAN 3031 Spanish Conversation and Composition I
SPAN 3032 Spanish Conversation and Composition II
SPAN 3050 Advanced Grammar and Syntax
SPAN 3060 Advanced Grammar and Syntax for Native Speakers
SPAN 3111 Civilization and Culture of Spain
SPAN 3120 Civilization and Culture of Latin America
SPAN 3200 Introduction to Literature

Four to six courses selected from the following three categories. Select at least one course from each category. SPAN 4040 must be chosen. A minimum of one other course must be at the 4000 level.
Category One:
SPAN 3210 Spanish Peninsular Literature I
SPAN 3220 Spanish Peninsular Literature II
SPAN 4070 Contemporary Spanish Peninsular Novel
SPAN 4080 Spanish Peninsular Theatre
SPAN 4100 Spanish Peninsular Poetry

Category Two:
SPAN 3230 Spanish American Literature I
SPAN 3240 Spanish American Literature II
SPAN 4060 Contemporary Spanish American Novel
SPAN 4090 Spanish American Theatre
SPAN 4110 Spanish American Poetry

Category Three:
SPAN 4010 Special Genre
SPAN 4020 Special Author
SPAN 4030 Special Topics
SPAN 4040 Spanish Phonetics
C. Related Field Courses ................................................................. 15 hours
Fifteen (15) semester hours (minimum) of 3000-4000 level courses from the College of Liberal Arts

D. Electives .................................................................................. 21 hours

Total Semester Hours 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH WITH TEACHER CERTIFICATION
*The Bachelor of Arts in Spanish with Teacher Certification program is not currently accepting new students.

A. General Requirements:
Core Areas A, B, C, D, I, and E .................................................. 42 hours
Area F ......................................................................................... 18 hours

B. Major Field Courses ............................................................... 30 hours
Four to six courses selected from:

Category One:
SPAN 3210 Spanish Peninsular Literature I
SPAN 3220 Spanish Peninsular Literature II
SPAN 4070 Contemporary Spanish Peninsular Novel
SPAN 4080 Spanish Peninsular Theatre
SPAN 4100 Spanish Peninsular Poetry

Category Two:
SPAN 3230 Spanish American Literature I
SPAN 3240 Spanish American Literature II
SPAN 4060 Contemporary Spanish American Novel
SPAN 4090 Spanish American Theatre
SPAN 4110 Spanish American Poetry

Category Three:
SPAN 4010 Special Genre
SPAN 4020 Special Author
SPAN 4030 Special Topics
SPAN 4900 Independent Study
SPAN 4990 Language Internship

C. Pedagogy Courses ..................................................................................................... 32 hours
EDUC 2130 Exploring Learning and Teaching
EDUC 3100 Technology Applications for Teachers
EDUC 3200 Curriculum, Instruction, and Assessment
EDUC 3300 Educating Students with Disabilities in the General Education Classroom
MGSE 3400 Classroom Management Strategies
SPAN 3750 Internship I Pre-Student Teaching
SPAN 4750 Internship II Student Teaching (12 semester hours)
SPAN 5442U Content and Methods Spanish Education

Total Semester Hours .......................................................... 126 hours

E. Exit Exam
College of Science and Technology
Jane Wong, Interim Dean
Brent Feske, Interim Assistant Dean

Philosophy and Goals
The availability of skilled professionals in the areas of science, mathematics and the technologies is a key factor in the growth of any economy. Our state and nation face no more pressing resource issue than the shortage of persons prepared to problem solve and expand basic knowledge in science, technology, engineering and mathematics (STEM fields). The needs of society include a citizenry with excellent knowledge of science and mathematics, well-prepared K-12 classroom teachers enthusiastic about and prepared to teach science and mathematics, and a domestic technological work force that answers the needs of the region, state, and nation.

The College of Science and Technology aspires to prepare graduates to meet these needs. With well-designed core courses taken by all students, we can create a generation of college graduates knowledgeable about science and technology. By offering state-of-the-art majors featuring opportunities for undergraduate research and internships, we will deliver significant contributions to the science and technology work force of this century. Finally, by identifying and encouraging significant numbers of students in science, technology, and mathematics who combine competence in discipline with aspiration to communicate what they know, we will produce role models and mentors for our secondary and university classrooms.

Additionally, both because of the rich and varied intellectual resources of our faculty and students and because of our unique mission as a regional state university in a large metropolitan area, we expect to align our efforts with local partners to facilitate positive change within our community and region. Building on an entrepreneurial and collaborative spirit, we will couple support from external agencies with support from partners in the community to build academic programs and scientific and technical infrastructure that will serve as an intellectual motor for sciences and technologies in Southeast Georgia and beyond.

Armstrong State University was one of only 123 schools nationwide to be named a STEM Jobs Approved College in 2015 by Victory Media. The inaugural list is the first of its kind to rate universities, colleges, community colleges and trade schools on their responsiveness and relevance to high demand, high growth STEM occupations. Armstrong was among more than 1,600 schools to participate in the STEM Jobs survey process that measured how effectively schools align their programs to high-demand, high-paying STEM jobs, and how well they assist their students in achieving career aspirations in STEM fields.

Organization and Degrees
The College of Science and Technology includes the Departments of Biology; Chemistry and Physics; Computer Science and Information Technology; Mathematics; Psychology; and the Engineering Studies Program. The degrees offered by the College of Science and Technology include:

Associate of Science with track in:
- Cyber Security
- Engineering Studies
Bachelor of Arts in
- Chemistry
- Psychology
Bachelor of Information Technology
Bachelor of Science in
- Applied Physics
- Biochemistry
- Biology
- Chemistry
Computer Science
Mathematical Sciences
Psychology
Master of Science
Computer and Information Science

Additional information on all undergraduate programs is found on the catalog pages of the appropriate department. Those interested in detailed information about graduate programs should refer to the Armstrong State University Graduate Catalog.

Minors and Certificates

Departments in the College of Science and Technology offer a variety of minors and certificates. Students may include one or more of these additional concentrations in their academic programs as circumstances permit. Requirements for minors and certificates are found on the catalog pages of the appropriate department.

Special Programs

Two certificates are available for students in Information Technology. The Level I certificate (the Certificate of Information Technology with Applications) is 12 credit hours. The Level II certificate (the Certificate of Information Technology with Programming) is 18 credit hours. The Department of Computer Science and Information Technology offers a certificate in Cyber Security. The Mathematics Department offers a certificate in Actuarial Sciences, which prepares students to sit for the first two actuarial exams and to provide all the educational requirements to become an actuary. The Psychology Department offers courses that allow students to take the Board Certified Assistant Behavior Analyst Examination.

BIOLOGY

Faculty
Matthew Draud, Department Head
Jennifer Brofft Bailey
Sherri Cannon
Alexander Collier
Michael Cotrone
Kathryn Craven
Geneva DeMars
Paul Dunn
James Eames
Austin Francis
Krystal Goodwin
Sara Gremillion
Michele Guidone
Jay Hodgson
Starr Holland
Heather Joesting
Brett Larson
Melanie Link-Pérez
Robert Mans
Scott Mateer
Aakash Mehta
Jessica Merricks
Justin Montemarano
Traci Ness
Brian Rooney
Aaron Schrey
Debbie Tucker
Gail Wynn
Jennifer Zettler

General Information

The Department of Biology offers a Bachelor of Science degree with the choice of three tracks. All three tracks share a strong foundation in biology and chemistry. The General Biology Track is designed to provide broad exposure to all areas of biology. The Marine Biology Track focuses on the biology of the ocean and its estuaries, and the Cell/Molecular Track provides additional depth in chemistry, physics and cellular/molecular biology. In all three tracks there is flexibility that allows students to tailor the major to fit their educational or vocational interests. The Biology major is appropriate for students seeking to enter careers in field biology, laboratory research, or
teaching, as well as preparation for graduate school, medical school, dental school, veterinary school, physician assistant school, anesthesiology assistant school or physical therapy school. By careful choice of electives, it is possible to secure double majors (with chemistry, for example). However, additional credit hours may be needed to complete double majors. Departmental advisors are available to provide information and assistance on all aspects of the bachelor’s degree in biology, with the requirements for graduate or professional schools, and with career goals.

Special Programs

Pre-Medical/Pre-Dental/Pre-Veterinary. Students majoring in biology may concurrently complete all pre-medical, pre-dental, and pre-veterinary requirements.

Biology Honors. Students performing independent biological research and submitting acceptable oral and written reports to a departmental committee may be eligible to graduate with departmental honors.

To qualify for this honor, students must have at the time of application: 80-100 semester hours of course work; a minimum college grade point average of 3.3; a minimum biology grade point average of 3.5 with no grade lower than C; and three or more 3000-4000 level courses completed.

The committee will consist of three biology faculty members, and may also include a biologist from outside the university. The committee will examine student proposals before projects are undertaken and will evaluate the completed projects.

Progress Requirements

Students must obtain a grade of C or better in all prerequisite courses to fulfill the prerequisite requirements for biology courses. To be eligible for the B.S. degree in biology, students must have a grade of at least C for all biology courses applied to the major, and must successfully complete the Major Field Test in Biology as a departmental exit exam. The minor also requires a C or better in each course. Students should be aware that 3000-4000 level biology courses may have prerequisites which could increase the total credit hours for the biology minor beyond 18.

Minor

Biology .................................................................................................................................................................................. 18 hours

Eighteen semester hours of biology courses of which 9 semester hours must be numbered 3000 or above

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

A. General Requirements

Core Areas A, B, C, D.IIA, and E .................................................................................................................. 42 hours

Biology majors are required to take MATH 1113 in core area A and CHEM 1211/1211L, CHEM 1212/1212L and MATH 2200 in core area D.

Area F ........................................................................................................................................................................... 18 hours

BIOL 1107/1107L or 1107H/1107A Principles of Biology I
BIOL 1108 or 1108H (and labs) Principles of Biology II
BIOL 2010 (and lab) Microbiology
BIOL 2400 Introduction to Cell and Molecular Biology
CHEM 2101 Organic Chemistry I

Physical Education .................................................................................................................................................................. 3 hours

First-Year Seminar ............................................................................................................................................................... 1 hour

Track I: General Biology

B. Major Field Courses ................................................................................................................................................... 31-38 hours

Required Courses (14 hours)

BIOL 2020 Plant Biology
BIOL 3000 Cell Biology
BIOL 3050 General Ecology
BIOL 3700 Genetics
Elective Courses (17-24 hours)
Choose one of the following:
- BIOL 4150 Plant Physiology
- BIOL 4200 Mammalian Physiology
- BIOL 4210 Comparative Physiology
Choose one of the following:
- BIOL 3250 Limnology
- BIOL 3470 Environmental Restoration
- BIOL 3600 Salt Marsh Ecology
- BIOL 4240 Behavioral Ecology
- BIOL 4320 Environmental Microbiology
- BIOL 4460 Phytoplankton Ecology
- BIOL 4750 Tropical Field Biology
Choose two of the following:
- BIOL 3030 Evolution
- BIOL 3520 Medical Microbiology
- BIOL 4000 Cancer Biology
- BIOL 4100 Cell and Molecular Biology Laboratory
- BIOL 4220 Endocrinology
- BIOL 4230 Neurophysiology and Disease
- BIOL 4310 Applied Microbiology
- BIOL 4400 Virology
- BIOL 4500 Bioinformatics and Biotechnology
- BIOL 4510 Molecular Development
- BIOL 4520 Epigenetics
- BIOL 4650 Immunology
Choose two of the following:
- BIOL 3020 Vertebrate Zoology
- BIOL 3150 Horticulture
- BIOL 3200 Plant Taxonomy
- BIOL 3300 Entomology
- BIOL 3310 Invertebrate Zoology
- BIOL 3750 Natural History of Vertebrate Animals
- BIOL 3770 Comparative Vertebrate Anatomy
- BIOL 3800 Mycology
- BIOL 3920 Parasitology
- BIOL 3950 Human Embryology
- BIOL 4470 Sea Turtle Biology
- BIOL 4550 Biology of Marine Organisms
- BIOL 4600 Ichthyology
C. Related Field Course ........................................................................................................... 1 hour
   CHEM 2101L Organic Chemistry I Lab
D. Electives .................................................................................................................................. 21-28 hours
   Select free electives to bring total of 3000+ course work to at least 39 hours.

Track II: Marine Biology

B. Major Field Courses .............................................................................................................31-34 hours
   Required Courses (18 hours)
   - BIOL 2020 Plant Biology
   - BIOL 3000 Cell Biology
   - BIOL 3050 General Ecology
   - BIOL 3700 Genetics
BIOL 4550 Biology of Marine Organisms

Elective Courses (13-16 hours)
  Choose one of the following:
    BIOL 4150 Plant Physiology
    BIOL 4200 Mammalian Physiology
    BIOL 4210 Comparative Physiology
  Choose one of the following:
    BIOL 3020 Vertebrate Zoology
    BIOL 3310 Invertebrate Zoology
    BIOL 3750 Natural History of Vertebrate Animals
    BIOL 3770 Comparative Vertebrate Anatomy
  Choose two of the following:
    BIOL 3030 Evolution
    BIOL 3200 Plant Taxonomy
    BIOL 3250 Limnology
    BIOL 4240 Behavioral Ecology
    BIOL 4320 Environmental Microbiology
    BIOL 4460 Phytoplankton Ecology
    BIOL 4470 Sea Turtle Biology
    BIOL 4600 Ichthyology
    BIOL 4750 Tropical Field Biology

C. Related Field Courses ........................................................................................................... 9 hours
  CHEM 2101L Organic Chemistry I Lab
  PHYS 1111K Introductory Physics I or PHYS 2211K Principles of Physics I
  MATH 1161 Calculus I (If taken in core area A, then substitute with either MATH 2072;
    PHYS 1112K or PHYS 2212K)

D. Electives .................................................................................................................................... 17-20 hours
  Select free electives to bring total of 3000+ course work to at least 39 hours.

Track III: Cell and Molecular Biology

B. Major Field Courses ........................................................................................................ 25-28 hours
  Required Courses (12 hours)
    BIOL 3000 Cell Biology
    BIOL 3700 Genetics
    BIOL 4100 Cell and Molecular Biology Laboratory
    BIOL 4500 Bioinformatics and Biotechnology
  Elective Courses (13-16 hours)
    Choose one of the following:
      BIOL 4150 Plant Physiology
      BIOL 4200 Mammalian Physiology
      BIOL 4210 Comparative Physiology
    Choose one of the following:
      BIOL 3020 Vertebrate Zoology
      BIOL 3310 Invertebrate Zoology
      BIOL 3750 Natural History of Vertebrate Animals
      BIOL 3770 Comparative Vertebrate Anatomy
      BIOL 3800 Mycology
      BIOL 3920 Parasitology
      BIOL 3950 Human Embryology
      BIOL 4000 Cancer Biology
      BIOL 4220 Endocrinology
      BIOL 4150 Plant Physiology
      BIOL 4200 Mammalian Physiology
      BIOL 4210 Comparative Physiology
    Choose two of the following:
      BIOL 3520 Medical Microbiology
      BIOL 3950 Human Embryology
      BIOL 4600 Ichthyology
      BIOL 4750 Tropical Field Biology
      BIOL 4470 Sea Turtle Biology
      BIOL 4600 Ichthyology
      BIOL 4750 Tropical Field Biology
BIOL 4230 Neurophysiology and Disease
BIOL 4310 Applied Microbiology
BIOL 4320 Environmental Microbiology
BIOL 4400 Virology
BIOL 4510 Molecular Development
BIOL 4520 Epigenetics
BIOL 4650 Immunology

C. Related Field Courses .................................................................................................. 16 hours
CHEM 2101L Organic Chemistry I Lab
CHEM 2102/2102L Organic Chemistry II
CHEM 3801 Biochemistry
PHYS 1111K Introductory Physics I or PHYS 2211K Principles of Physics I
PHYS 1112K Introductory Physics II or PHYS 2212K Principles of Physics II

D. Electives ................................................................................................................16-19 hours
Select free electives to bring total of 3000+ course work to at least 39 hours.

Total Semester Hours .................................................................................................. 124 hours

E. Exit Exam

CHEMISTRY AND PHYSICS

Faculty
Will Lynch, Department Head
William Baird ................................................................. Donna Mullenax
Suzanne Carpenter ......................................................... Clifford Padgett
Nicole Davis ................................................................. Lea Padgett
Brent Feske ................................................................. Brandon Quillian
Delana Gajdosik-Nivens ................................................. Natalie Romano
Sarah Gray ................................................................. Jeffery Secrest
Gary Guillet ................................................................. Nathaniel Shank
Todd Hizer ................................................................. Richard Wallace
Leon Jaynes ................................................................. Mitch Weiland
Catherine MacGowan ..................................................... Sarah Zingales

Accreditation
The chemistry program is approved by the American Chemical Society (ACS), Committee on Professional Training (CPT), 1155 16th St., NW, Washington, DC 20036, telephone 202-872-4600.

General Information
The Department of Chemistry and Physics offers bachelor of science degrees with majors in biochemistry, chemistry and applied physics. A bachelor of arts degree with a major in chemistry is offered. Minor concentrations are offered in applied physics, chemistry, and physical sciences.

The major in biochemistry provides a solid academic foundation, serving as a bridge between chemistry and biology, while developing industry standard skills that appeal to employers in a wide range of fields. It also provides an excellent pathway into a variety of professional settings including graduate school, and professional programs in medical, dental, veterinary and pharmacy disciplines. The major in chemistry is designed to give depth in the fields of chemistry, yet is flexible enough to accommodate a range of career goals, including graduate school, medical, dental, veterinary and pharmacy. The major in applied physics is designed to give a broad foundation in the fields of physics and engineering with enough flexibility to support a range of career goals from industrial employment to graduate work.
Departmental advisors are available to provide information and assistance for students pursuing the bachelor’s degree with a major in biochemistry, chemistry or applied physics; and for students who are interested in pre-medicine, pre-pharmacy, pre-veterinary medicine, or pre-dentistry programs.

Special Programs

**American Chemical Society Certified Degree.** Students majoring in biochemistry or chemistry may concurrently complete all requirements outlined by the American Chemical Society to receive a B.S. in Chemistry Certified by the Society. See details under Program for the Degree Bachelor of Science in Chemistry with ACS certification in this catalog.

**Pre-Medical/Pre-Dental/Pre-Pharmacy/Pre-Veterinary.** Students majoring in chemistry may concurrently complete all pre-medical, pre-dental, pre-pharmacy, and pre-veterinary requirements.

**Honors in Chemistry.** A student may graduate with Honors in Chemistry by completing three credit hours in CHEM 4991 approved by the department’s honors committee, maintaining an overall grade point average of 3.5 in all chemistry courses applying to the major, and completing all requirements of the Honors program.

**Honors in Applied Physics.** A student may graduate with Honors in Applied Physics by completing a minimum of three credit hours in PHYS 4991 approved by the department’s honors committee, maintaining an overall grade point average of 3.5 in all physics courses applying to the major, and completing all requirements of the Honors program.

Progress Requirements

A grade of C or better in all chemistry courses applied toward the major, and the successful completion of the chemistry exit exam are graduation requirements. If any credit for major or related field courses is transferred from another college, the department may require that it be validated by examination. All minors also require a C or better in each course.

A grade of C or better in all physics courses applied toward the major and the successful completion of the applied physics exit exam are graduation requirements.

Minors

Note: CHEM 1211, 1211L, 1212, and 1212L are used by BCHM majors in core D.

**Minor in Biochemistry** .................................................................................................... 17 hours

CHEM 2101, 2101L, 2102 & 2102L
CHEM 3801 Biochemistry I
CHEM 3802 Biochemistry II
3 additional hours of BCHM courses at the 3000 or 4000 level

**Chemistry** ........................................................................................................................ 15 hours

Six semester hours of lower division chemistry courses
Nine semester hours of upper division chemistry courses

**Applied Physics** .............................................................................................................. 15 hours

Six semester hours of lower division physics courses
Nine semester hours of upper division physics courses

**Physical Sciences** ............................................................................................................15 hours

Six semester hours in chemistry, physical science, or physics
Nine semester hours selected from: ASTR 3000, GEOL 3100, METR 3100, OCEA 3100
PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN CHEMISTRY

A. General Requirements

Core Areas A, B, C, D.IIA, and E ................................................................. 42 hours
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D
Area F ......................................................................................................................... 18 hours
CHEM 1211/1211L and 1212/1212L Principles of Chemistry I, II, with corresponding laboratories (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)
Choose one sequence from:
PHYS 1111K Introductory Physics I and
PHYS 1112K Introductory Physics II or
PHYS 2211K Principles of Physics I and
PHYS 2212K Principles of Physics II
One hour excess for MATH 1161 from Core Area D
One hour lower division elective
Physical Education ........................................................................................................ 3 hours
First-Year Seminar ...................................................................................................... 1 hour

B. Major Field Courses ......................................................................................... 33 hours
Required (20 Hours)
CHEM 2101/2101L Organic Chemistry I with laboratory
CHEM 2102/2102L Organic Chemistry II with laboratory
CHEM 2300 Principles of Chemical Analysis
CHEM 3200 Inorganic Chemistry
CHEM 3401 Physical Chemistry: Thermodynamics and Kinetics
Approved upper-division electives (13 hours) in the major from:
CHEM 3300 Instrumental Analysis
CHEM 3402 Physical Chemistry: Quantum Mechanics and Spectroscopy
CHEM 3801 Biochemistry I
CHEM 3802 Biochemistry II
CHEM 3803 Biochemistry Laboratory
CHEM 4100 Advanced Topics in Organic Chemistry
CHEM 4200 Advanced Topics in Inorganic Chemistry
CHEM 4300 Advanced Topics in Analytical Chemistry
CHEM 4400 Advanced Topics in Physical Chemistry
CHEM 4500 Chemistry Seminar
CHEM 4600 Advanced Topics in Interdisciplinary Chemistry
CHEM 4940 Special Topics in Chemistry
CHEM 4950 Special Lecture Topics in Chemistry
with a maximum 3 hours total from:
CHEM 3900 Chemical Research
CHEM 4800 Pedagogy and Supplemental Instruction in Chemistry
CHEM 4960 Internship
CHEM 4991 Advanced Chemical Research
Transfer credit for similar courses

C. Electives .............................................................................................................. 27 hours
18 hours of upper-division courses
9 hours of free electives

Total Semester Hours ............................................................................................... 124 hours

D. Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

A. General Requirements

Core Areas A, B, C, D,IIA, and E ................................................................. 42 hours
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D

Area F ............................................................................................................. 18 hours
CHEM 1211/1211L and 1212/1212L Principles of Chemistry I, II, with corresponding laboratories (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)
Choose one sequence from:
PHYS 1111K Introductory Physics I and
PHYS 1112K Introductory Physics II or
PHYS 2211K Principles of Physics I and
PHYS 2212K Principles of Physics II
One hour excess for MATH 1161 from Core Area D
One hour lower division elective

Physical Education .......................................................................................... 3 hours
First-Year Seminar ............................................................................................. 1 hour

B. Major Field Courses ..................................................................................... 39 hours
CHEM 2101/2101L Organic Chemistry I with laboratory
CHEM 2102/2102L Organic Chemistry II with laboratory
CHEM 2300 Principles of Chemical Analysis
CHEM 3200 Inorganic Chemistry
CHEM 3300 Instrumental Analysis
CHEM 3401 Physical Chemistry: Thermodynamics and Kinetics
CHEM 3402 Physical Chemistry: Quantum Mechanics and Spectroscopy
CHEM 4500 Chemistry Seminar
9 hours from:
CHEM 3801, 3802, 3803, 4100, 4200, 4300, 4400, 4600, 4940, 4950, with a maximum 2 hours total from: CHEM 3900, 4800, 4960, 4991

C. Related Field Course ...................................................................................... 4 hours
MATH 2072 Calculus II

D. Electives ........................................................................................................... 17 hours
14 hours of upper-division courses
3 hours of free electives

Total Semester Hours 124 hours

E. Exit Exam
Proper course selection will allow the student to pursue any one of the following degree options.

Pre-Graduate Study Option:
Note: PHYS 2211K and PHYS 2212K is the recommended physics sequence.

C. Related Field Courses ..................................................................................... 10 hours
MATH 2072 Calculus II (one hour counted in Area F) and
MATH 2083 Calculus III and
PHYS 3801K Modern Physics

D. Electives .......................................................................................................... 12 hours
Upper-division courses.
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY

A. General Requirements

Core Areas A, B, C, D.IIA, and E ................................................................. 42 hours
Biochemistry Majors are required to take a minimum of MATH 1113 in Core Area A and MATH 1161 in Core Area D. Students may choose to take MATH 1161 in Core Area A and MATH 2072 in Core Area D.

Area F ........................................................................................................... 18 hours
CHEM 1211/1211L and CHEM 1212/1212L (unless taken to satisfy Core Area D, in which case, substitute CHEM 2101/2101L and CHEM 2102/2102L)
Choose one sequence from:
- PHYS 1111K- Introductory Physics I and
- PHYS 1112K- Introductory Physics II or
- PHYS 2211K- Principles of Physics I and
- PHYS 2212K- Principles of Physics II or
One hour excess for MATH 1161
One hour lower division approved elective

Physical Education ....................................................................................... 3 hours
First-Year Seminar ......................................................................................... 1 hour

B. Major Field Courses ............................................................................. 36 hours
BCHM 3301 Bioanalytical Chemistry
BCHM 3403 Biophysical Chemistry
BCHM 3811 Introduction to Biochemical Techniques
Choose one of the following classes:
- BCHM 3812 Advanced Biochemistry Laboratory
- BCHM 3900 Biochemical Research (1 credit hour)
- BCHM 4991 Advanced Biochemical Research (1 credit hour)
- CHEM 3900 Chemical Research (Biochemistry approved, 1 credit hour)
- BCHM 4811 Bioinstrumental Laboratory
- CHEM 2101/2101L Organic Chemistry I with Laboratory
- CHEM 2102/2102L Organic Chemistry II with Laboratory
- CHEM 2300 Principles of Chemical Analysis
- CHEM 3801 Biochemistry I
- CHEM 3802 Biochemistry II
- CHEM 4500 Chemistry Seminar or BCHM 4501 Biochemistry Seminar
7 hours of approved upper division chemistry or biochemistry courses. No more than 3 hours total can be from CHEM 3900, CHEM 4991, BCHM 3900 and BCHM 4991.

C. Related Field Course ............................................................................. 16 hours
BIOL 1107/1107L Principles of Biology I
BIOL 2400 Introduction to Cell and Molecular Biology
BIOL 3000 Cell Biology
Minimum 6 hours from:
- BIOL 3700 Genetics
- BIOL 4000 Cancer Biology
- BIOL 4220 Endocrinology
- BIOL 4400 Virology
- BIOL 4500 Bioinformatics and Biotechnology
- BIOL 4650 Immunology
Or other department approved upper division biology courses

D. Electives ................................................................................................. 8 hours
5 hours of upper-division courses
3 hours of free electives

Total Semester Hours .................................................................................. 124 hours

E. Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY WITH AMERICAN CHEMICAL SOCIETY CERTIFICATION

A. General Requirements

Core Areas A, B, C, D.IIA, and E ................................................................. 42 hours
Chemistry majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F ............................................................................................................. 18 hours
CHEM 1211/1211L and 1212/1212L Principles of Chemistry I, II, with corresponding laboratories (unless taken to satisfy area D, in which case replace with 8 hours of lower division electives)
PHYS 2211K Principles of Physics I and
PHYS 2212K Principles of Physics II
One hour excess for MATH 1161 from core area D (or A)
One hour excess from MATH 2072

Physical Education .......................................................................................... 3 hours
First-Year Seminar .......................................................................................... 1 hour

B. Major Field Courses .................................................................................. 42 hours

CHEM 2101/2101L Organic Chemistry I with laboratory
CHEM 2102/2102L Organic Chemistry II with laboratory
CHEM 2300 Principles of Chemical Analysis
CHEM 3200 Inorganic Chemistry
CHEM 3300 Instrumental Analysis
CHEM 3401 Physical Chemistry: Thermodynamics and Kinetics
CHEM 3402 Physical Chemistry: Quantum Mechanics and Spectroscopy
CHEM 3801 Biochemistry I
CHEM 4500 Chemistry Seminar
CHEM 4991 Advanced Chemical Research (3 hours)

Three courses from:
CHEM 4100 Advanced Topics in Organic Chemistry
CHEM 4200 Advanced Topics in Inorganic Chemistry
CHEM 4300 Advanced Topics in Analytical Chemistry
CHEM 4400 Advanced Topics in Physical Chemistry
CHEM 4600 Advanced Topics in Interdisciplinary Chemistry

C. Related Field Course .................................................................................. 7 hours
MATH 2072 (1 hour in area F)
MATH 2083

D. Electives ...................................................................................................... 11 hours

9 hours of upper-division electives
2 hours of free electives

Total Semester Hours 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED PHYSICS

Track 1: Applied Physics

A. General Requirements

Core Areas A, B, C, D.IIA, and E ................................................................. 42 hours
Applied physics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F ............................................................................................................. 18 hours
PHYS 2211K, 2212K Principles of Physics I, II (unless taken to satisfy core area D, in which case replace with 8 hours of lower division electives)
MATH 2072 Calculus II
MATH 2083 Calculus III
One hour excess for MATH 1161 from Core Area D
1 hour excess from PHYS 1000 or from any science or math course

Physical Education ........................................................................................................ 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses ................................................................................................. 30 hours
Choose one of the following courses:
- PHYS 3100 Electrical Circuit Analysis or ENGR 3100 Circuit Analysis
- PHYS 3120 Digital Electronics
- PHYS 3300 Thermodynamics or PHYS 3400 Chemical Thermodynamics
- PHYS 3801K Modern Physics
- PHYS 3802 Introduction to Quantum Mechanics
- PHYS 4120 Scientific Measurement with Digital Interfacing
- PHYS 4170 Advanced Mechanics
Choose twelve semester hours from:
- PHYS 2900 Introduction to Research in Physics
- PHYS 3100 Electrical Circuit Analysis or ENGR 3100 Circuit Analysis (if not previously counted above)
- PHYS 3120 Digital Electronics (if not previously counted above)
- PHYS 3142 Computational Physics
- PHYS 3200 Mathematical Methods for Physicists
- PHYS 3220 Mechanics of Deformable Bodies
- PHYS 3230 Fluid Mechanics
- PHYS 3312 Electromagnetism
- PHYS 3500 Diffraction and Crystallography
- PHYS 3700K Optics
- PHYS 4800 Pedagogy and Supplemental Instruction in Physics (maximum of 3 hours can be used in this section)
- PHYS 4900 Independent Study in Physics
- PHYS 4950 Special Topics in Physics
- PHYS 4960 Physics Internship
- PHYS 4991 Advanced Research in Physics

C. Related Field Courses ............................................................................................. 23 hours
- CHEM 1211/1211L Principles of Chemistry I (and lab)
- CHEM 1212/1212L Principles of Chemistry II (and lab)
- CSCI 1301 Introduction to Programming Principles or ENGR 1371 Computing for Engineers
- MATH 2160 Linear Algebra
- MATH 3411 Differential Equations
A three semester-hour upper-division math course (3000 or 4000 level, excluding MATH 3411, 3900, 3911, 3912, 3932, 4000, 4750, 4900, 4910, 4961, 4962, 4963, 5412U, 5600U, 5700U, 5900U, 5911U)
Three semester hours of related field electives approved by the physics faculty.

D. Electives .................................................................................................................... 7 hours
Upper-division courses (6 semester hours)
Free elective (1 semester hour)

Total Semester Hours .................................................................................................... 124 hours

E. Exit Exam
## Track II: Robotics and Mechatronics

### A. General Requirements

**Core Areas A, B, C, D.IIA, and E** .................................................. 42 hours  
Applied physics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D  
**Area F** ................................................................................................. 18 hours  
PHYS 2211K, 2212K Principles of Physics I, II (unless taken to satisfy core area D, in which case replace with 8 hours of lower division electives)  
MATH 2072 Calculus II  
MATH 2160  
CSCI 1301 or ENGR 1371  
**Physical Education** ................................................................................ 3 hours  
**First-Year Seminar** .................................................................................. 1 hour  
**B. Major Field Courses** ......................................................................... 30 hours  
PHYS 2030 Introduction to Computer Engineering  
PHYS 2031 Digital Design Laboratory  
PHYS 2035 Programming for Hardware/Software Systems  
PHYS 3100 Electrical Circuit Analysis  
PHYS 3120 Digital Electronics and Microcontrollers  
PHYS 3142 Computational Physics  
PHYS 3170 Sensor Development and Data Analysis  
PHYS 3801K Modern Physics  
PHYS 4200 Analysis and Synthesis of Mechatronic Systems  
PHYS 3370 Human Computer Interaction  
**C. Related Field Courses** ..................................................................... 23 hours  
CHEM 1211 Principles of Chemistry I (and lab)  
CHEM 1212 Principles of Chemistry II (and lab)  
MATH 3411 Differential Equations  
Twelve semester hours (nine hours of which must be upper division level) of related field electives approved by the physics faculty.  
**D. Electives** ......................................................................................... 7 hours  
Upper-division courses (6 semester hours)  
Free elective (1 semester hour)  
**Total Semester Hours** ........................................................................ 124 hours  
**E. Exit Exam**  

## Track III: Health Physics

### A. General Requirements

**Core Areas A, B, C, D.IIA, and E** .................................................. 42 hours  
Applied physics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D  
**Area F** ................................................................................................. 18 hours  
PHYS 2211K, 2212K Principles of Physics I, II (unless taken to satisfy core area D, in which case replace with BIOL 1107, 1107L and 1108)  
MATH 2160 or STAT 3231  
MATH 2072 Calculus II  
CSCI 1301 Introduction to Programming Principles or ENGR 1371 Computing for Engineers  
**Physical Education** ................................................................................ 3 hours  
**First-Year Seminar** .................................................................................. 1 hour  
**B. Major Field Courses** ......................................................................... 30 hours  
PHYS 3100 Electrical Circuit Analysis or ENGR 3100 Circuit Analysis  
PHYS 3801K Modern Physics  
PHYS 3802 Introduction to Quantum Mechanics
PHYS 3403 Biophysics
PHYS 3601 Introduction to Radiation Physics I
PHYS 3602 Introduction to Radiation Physics II
PHYS 3650 Radiation Exposure in the Workplace and Environment
PHYS 3660 Medical Imaging
Choose three semester hours from:
  PHYS 2900 Introduction to Research in Physics
  PHYS 3220 Mechanics of Deformable Bodies
  PHYS 3230 Fluid Mechanics
  PHYS 3312 Electromagnetism
  PHYS 3400 Chemical Thermodynamics
  PHYS 3500 Diffraction and Crystallography
  PHYS 4991 Advanced Research in Physics

Choose three semester hours from:
  PHYS 4900 Independent Study in Physics
  PHYS 4950 Special Topics in Physics
  PHYS 4960 Physics Internship

C. Related Field Courses ............................................................................................... 23 hours

CHEM 1211 Principles of Chemistry I (and lab) (unless taken to satisfy core area D, in which case replace with BIOL 1107 and 1107L)
CHEM 1212 Principles of Chemistry II (and lab) (unless taken to satisfy core area D, in which case replace with BIOL 1107 and 1107L)
MATH 3411 Differential Equations

Twelve semester hours of related field electives approved by the physics faculty.

D. Electives ....................................................................................................................... 7 hours

Upper-division courses (6 semester hours)
Free elective (1 semester hour)

Total Semester Hours 124 hours

E. Exit Exam
and application of computers. They are concerned with problem solving in general, with particular emphasis on developing efficient solutions to problems. This requires a detailed knowledge of the nature of algorithms, the software development and implementation techniques necessary to use these algorithms on computers, and an understanding of core computer science concepts. Students acquire a broad background in mathematics and science. Most courses require significant use of computers. Class sizes are typically small, allowing for individual instruction. Computer literacy courses are also offered to satisfy the general education needs of Armstrong students.

The Bachelor of Information Technology degree is designed to prepare students for employment as Information Technology (IT) professionals. Information Technology professionals are involved in many facets of computer applications. Typical jobs are centered on effective utilization of organizational resources, including hardware, software, and people, and may involve training and trouble-shooting. To prepare students for employment in a wide range of computer-related jobs, IT courses focus on practical aspects of design, deployment, integration, and maintenance of computer systems within an organization. Most courses involve significant use of computers. Class sizes are typically small, which allows for individual instruction.

The Associate of Science degree in the Cyber Security track requires 18 credit hours of coursework and aims to prepare students for entry-level work in the area of data security or for further study at the baccalaureate level.

Special Programs

Students are able to apply for internships at Savannah’s current high-tech employers such as Gulfstream, the Skidaway Institute of Oceanography, and the Georgia Ports Authority, as well as upcoming startups. Such positions provide students invaluable opportunities to acquire practical experience to complement classroom work. Students receive credit for participation in such programs.

Progress Requirements

To earn the bachelor’s degree with a major or a minor in computer science, students must complete with a grade of C or better all computer science and mathematics courses required in the program of study. To fulfill the prerequisites for any computer science course all students must obtain a grade of C or better in each prerequisite course.

To earn a Bachelor in Information Technology degree, students must complete all information technology, computer science, and mathematics courses required in the program of study with a grade of C or better. To fulfill the prerequisites for any information technology course all students must obtain a grade of C or better in each prerequisite course.

To earn the Associate of Science degree in the Cyber Security track, students must complete all information technology, computer science, and mathematics courses required in the program of study with a grade of C or better.

Minors

Computer Science and Information Technology courses are valuable for anyone planning to work with computers or in a field requiring technical knowledge. A minor in Computer Science or Information Technology can be a complement to many other degree programs. A grade of C or better is required in each course used towards a minor.

Computer Science ................................................................. 15 hours
CSCI 1301, CSCI 1302, and nine semester hours from any 3000-5000 level computer science courses, excluding CSCI 3990, and internships.
(A grade of C or better is required in each course used towards a minor.)

Cyber Security ................................................................. 18 hours
The Department of Information Technology participates in offering an interdisciplinary minor in Cyber Security. See details under “Interdisciplinary Certificates and Minors” in this catalog.
Information Technology .................................................. 18 hours
CSCI 1301, ITEC 1300, and ITEC 1310, plus nine semester hours from any 3000-4000 level information technology courses.

Mobile and Web Development .................................................. 18 hours
One course selected from CSCI 1301 or ITEC 1310, plus CSCI 1150, CSCI 3301, CSCI 3370, ITEC 2000, ITEC 3950

Certificate Programs

Undergraduate Certificate in Cyber Security ........................................... 18 hours
CSCI 1150 Fundamentals of the Internet and the World Wide Web
One course selected from:
- CSCI 1301 Introduction to Programming Principles
- ITEC 1310 Programming for IT
- CSCI 2070 Ethical Considerations in Computer Science
- ITEC 3700 Cyber Security I
- ITEC 4200 Cyber Security II, Network Security
- ITEC 4300 Cyber Security III, Ethical Hacking

Undergraduate Certificate in Information Technology
Two levels of Information Technology Certificates are offered by Armstrong. These certificates are designed to meet the needs of a wide range of students and employers. The Level 1 (Information Technology with Applications) certificate is an introductory information technology program with a focus on applications. The Level 2 certificate (Information Technology with Programming) includes Level 1 courses plus two additional programming courses.

Level 1: Information Technology with Applications ...................................... 12 hours
- ITEC 1050 Computer Concepts and Applications or CSCI 1060 Computer Programming Concepts
- CSCI 1150 Fundamentals of the Internet and World Wide Web
- ITEC 1310 Programming for Information Technology
- ITEC 2000 Introduction to App Development

Level 2: Information Technology with Programming ...................................... 15 hours
- ITEC 1310 Programming for Information Technology
- ITEC 2000 Introduction to App Development
- ITEC 2530 Operating Systems
- CSCI 1301 Introduction to Programming Principles
- CSCI 1302 Advanced Programming Principles or CSCI 3301 UNIX and Secure Web Development

Undergraduate Certificate of Mobile and Web Development ...................... 12 hours
CSCI 1150 Fundamentals of the Internet and World Wide Web
One course selected from:
- CSCI 1301 Introduction to Programming Principles
- ITEC 1310 Programming for Information Technology
- CSCI 3301 - UNIX and Secure Web Development
- ITEC 2000 - Introduction to App Development

Undergraduate Certificate of Advanced Mobile and Web Development .......... 18 hours
Undergraduate Certificate of Mobile and Web Development, plus the following courses:
- CSCI 3370 - Human Computer Interaction
- ITEC 3950 - Advanced Mobile App Development
PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE.
Cyber Security Track
A. General Requirements (Core Areas A, B, C, D.I, and E) ....................................... 42 hours
   Physical Education ...................................................................................................... 3 hours
   First-Year Seminar ...................................................................................................... 1 hour
B. Additional Requirements .......................................................................................... 18 hours
   MATH 1111 College Algebra (if not taken in Core Area A)
   ITEC 1310 Programming for IT
   CSCI 2070 Ethical Considerations in Computer Science
   ITEC 3700 Cyber Security I
   ITEC 4200 Cyber Security II, Network Security
   ITEC 4300 Cyber Security III, Ethical Hacking
   If MATH 1111 was taken in Core A, then select one of the following:
      MATH 1113 Pre-Calculus Mathematics
      CSCI 1150 Fundamentals of the Internet and the World Wide Web (if not taken in Area D)
Total Semester Hours 64
C. University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
COMPUTER SCIENCE
A. General Requirements
   Core Areas A, B, C, D.IIA, E ................................................................................... 42 hours
   Computer science majors are required to take MATH 1113 in core area A and MATH 1161 in core area D.
   Area F ......................................................................................................................... 18 hours
      One semester hour excess for MATH 1161 of any lower division elective from the
      College of Science and Technology,
      CSCI 1301 Introduction to Programming Principles
      CSCI 1302 Advanced Programming Principles
      CSCI 2070 Ethical Considerations in Computer Science
      CSCI 2625 Discrete Structures for Computer Science
      MATH 2072 Calculus II
   Physical Education ..................................................................................................... 3 hours
   First-Year Seminar ...................................................................................................... 1 hour
B. Major Field Courses ............................................................................................... 39 hours
   CSCI 2410 Data Structures and Algorithms
   CSCI 2490 Object-Oriented Programming in C++
   CSCI 3201 Computer Organization and Architecture I
   CSCI 3202 Computer Organization and Architecture II
   CSCI 3301 UNIX and Secure Web Development
   CSCI 3321 Introduction to Software Engineering Concepts
   CSCI 3330 Comparative Languages
   CSCI 3341 Introduction to Operating Systems
   CSCI 3510 Theory of Computation
   CSCI 3720 Database Systems
   Nine additional semester hours from 5000 level computer science courses
C. Related Field Courses ............................................................................................ 15 hours
   ENGL 3720 Business and Technical Communication
   STAT 3211 Probability and Statistics Applications I
   One of the following:
      CSCI 3625 Advanced Discrete Structures
CSCI 5610U Numerical Analysis (If used here, may not also be counted as major field course.)
MATH 2160 Linear Algebra
MATH 3411 Differential Equations
MATH 3460 Introduction to Operations Research
STAT 3222 Probability and Statistics Applications II
Six additional semester hours of laboratory science courses from Core D Option IIA
for science majors or science or engineering courses having a Core D Option II A
laboratory science course as a prerequisite (unless already taken to meet core area D
requirements)

D. Free Electives .............................................................................................................. 6 hours

Total Semester Hours 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY

A. General Requirements

Core Areas A, B, C, D.I, E ........................................................................................................ 42 hours
Area F .................................................................................................................................... 18 hours
CSCI 1150 Fundamentals of the Internet and World Wide Web
CSCI 1301 Introduction to Programming Principles
CSCI 1302 Advanced Programming Principles
ITEC 1310 Programming for Information Technology
ITEC 2000 Introduction to App Development
And one of the following:
MATH 1161 Calculus I
MATH 1950 Applied Math for Non-Science Majors
MATH 2200 Elementary Statistics
CSCI 2625 Discrete Structures in Computer Science
Physical Education .............................................................................................................. 3 hours
First-Year Seminar ........................................................................................................... 1 hour

B. Major Field Courses .................................................................................................. 36 hours
CSCI 2070 Ethical Considerations in Computer Science
CSCI 3301 UNIX and Secure Web Development
ITEC 2530 Operating Systems
ITEC 3500 Database Administration
ITEC 3600 Systems Analysis and Design
ITEC 3700 Cyber Security I
ITEC 3710 E-commerce
ITEC 3800 Data Communications and Networks
ITEC 4391 Senior Capstone Project I
ITEC 4392 Senior Capstone Project II
ITEC 4770 Client/Server Systems
ITEC 4800 Network Design and Administration
ITEC 4830 Graphics Design

C. Related Field Courses .............................................................................................. 9-15 hours
ACCT 2101 and 2102 Principles of Accounting I and II or ECON 2105 and 2106 Principles
of Macroeconomics and Principles of Microeconomics
ENGL 2370 Business and Technical Communication
MATH 1111 College Algebra (if not taken in core area A)
MATH 1113 Pre-Calculus Mathematics (if not taken in core area A or D)
D. Electives.................................................................................................................................................. 9-15 hours

At least six hours of electives must be courses numbered 3000 or above. If taken, one hour excess for MATH 1161 from Core Area F will count as a free elective.

Total Semester Hours 124 hours

E. Exit Exam

ENGINEERING STUDIES PROGRAM

Faculty
Cameron Coates, Program Coordinator
Priya Goeser
Wayne Johnson
Thomas Murphy
Christopher Williams

General Information

The Engineering Studies Program offers an Associate of Science degree with a track that emphasizes engineering fundamentals. Committed to both teaching and research, the department prepares students to meet the challenges of an increasingly technological society.

The Engineering Studies program offers course work contained in the first two years of the standard engineering curriculum at most accredited Bachelor’s degree engineering programs. After following the suggested course sequence for the Associate of Science degree at Armstrong, a student should be able to transfer to any engineering school accredited by the Accreditation Board for Engineering and Technology (ABET) and complete the requirements for a baccalaureate degree in a chosen engineering field in a total of four to five years (the typical term for all engineering degrees). The programs of study have been constructed in partnership with the Georgia Institute of Technology and Georgia Southern University. If students are transferring to other institutions, they are advised to contact the schools of their choice on questions of transfer.

Special Programs

While there is no formal agreement that guarantees internship positions from local companies, Armstrong’s Engineering Studies program does have a strong relationship with many local companies. Therefore, students are often successful in obtaining internships at several of Savannah’s current engineering employers such as Gulfstream Aerospace, Georgia Power, Georgia-Pacific, the Skidaway Institute of Oceanography, and the U.S. Army Corps of Engineers. Such positions provide students invaluable opportunities to acquire practical experience to complement classroom work.

Regents Engineering Transfer Program (RETP)

The Regents Engineering Transfer Program (RETP) is a cooperative program between Armstrong State University, Georgia Institute of Technology (Gatech), Georgia Southern University (GSU), Southern Polytechnic College of Engineering and Engineering Technology, and the University of Georgia (UGA). RETP students take the first two years of engineering course work at Armstrong and those satisfying RETP specific GPA requirements are guaranteed acceptance into a Bachelor’s in Engineering program at one of the aforementioned partner institutions. For 2016, students transferring to Georgia Tech are required to maintain a 3.0 Math/Science GPA and 3.0 overall GPA, while students transferring to any of the other three institutions are required to maintain a 2.5 Math/Science and 2.5 overall GPA. Georgia Tech’s RETP program supports Aerospace, Biomedical, Chemical & Biomolecular, Civil, Environmental, Computer, Electrical, Industrial, Materials Science, Mechanical, and Nuclear & Radiological engineering degrees. The other transfer institutions’ RETP program supports Mechanical, Electrical, Mechatronic, Manufacturing and Civil engineering degrees.
Dual Degree Program

Through an agreement with Armstrong and the Georgia Institute of Technology, students may complete a specified three-year program of study at ASU, and then attend Georgia Tech for approximately two years. After completion of the engineering program at Georgia Tech, the student will receive two degrees, a Bachelor of Science from Armstrong in Mathematics, Physics or Computer Science and a Bachelor of Science from Georgia Tech in Engineering. In order to transfer to Georgia Tech, dual degree students must obtain an overall GPA of at least 3.0 (all attempts at all courses), a math/science GPA of at least 3.0 (all natural science courses and all Math 1501 and higher), be enrolled at Armstrong for at least 2 semesters immediately preceding transfer to GT, i.e. Fall/Spring or Spring/Summer for a Fall GT enrollment.

Pre-Engineering

Students who are not initially eligible for the RETP program or those who wish to transfer to other institutions besides the Georgia Institute of Technology, Georgia Southern University, Southern Polytechnic or University of Georgia may enter the pre-engineering program. Once pre-engineers have completed 30 credit hours of college coursework, including math and science courses specific to engineering majors, they will be accepted into the RETP program provided their GPA is a 3.0 (Georgia Tech) or 2.5 (other RETP transfer institutions) or greater.

Minor

Engineering courses are valuable for anyone planning to work in a field requiring technical knowledge. A minor in Engineering Studies can be a complement to other degree programs such as business, technology, mathematics, physics, management and education.

**Engineering Studies** ................................................................. 15 hours

Six hours from CSCI 1301, CSCI 1371, ENGR 1170, ENGR 1371 or any 2000 level ENGR course

Six hours from ENGR 3100, ENGR 3322 or PHYS3100

Three hours from CHEM 3071, CHEM 3072, CHEM 3300, CHEM 3401, CSCI 3201, CSCI 3321, MATH 3460, MATH 3480, PHYS 3120, PHYS 3220, PHYS 3230, PHYS 3312, or STAT 3211

**PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE**

**Engineering Studies Track**

A. **General Requirements (Core Areas A, B, C, D.IIA, E)** ................................. 42 hours

In core area A, MATH 1161 Calculus I must be taken

In core area D, MATH 2072 Calculus II must be taken for the course in mathematics, science, or technology

In core area D, the laboratory science sequence must be taken from:

- BIOL 1107/1107L or 1107H/1107A and BIOL 1108 or 1108H (and labs) Principles of Biology I/II
- CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of Chemistry I/II
- PHYS 2211K/2211K Principles of Physics I/II

Physical Education ................................................................. 1 hour

First-Year Seminar ................................................................. 1 hour

B. **Additional Requirements** ..................................................... 18 hours

- ENGR 1170 Engineering Graphics or ENGR 2030 Introduction to Computer Engineering
- ENGR 1371 Computing for Engineers or CSCI 1301 Introduction to Programming Principles
- 6 hours of 2000 or higher-level ENGR courses (excluding ENGR 3960, 4990, 4999)
- One hour excess from Area A
- One hour excess from Area D
An additional laboratory course (not taken in area D of General Requirements) taken from:
BIOL 1107/1107L or 1107H/1107A and BIOL 1108 or 1108H (and labs) Principles of Biology I/II
CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of Chemistry I/II
PHYS 2211K/2212K Principles of Physics I/II

Total Semester Hours 64

C. University Exit Exam

MATHEMATICS

Faculty
James Brawner, Department Head
Matthew Brown, Director, STEM Success Center
Tricia Muldoon Brown  Joshua Lambert
Sungkon Chang  Tim McMillan
Sean Eastman  Joseph Roberts
Paul Hadavas  Jared Schlieper
Sabrina Hessinger  Janel Smith
Selwyn Hollis  Kimberly Swanson
Duc V. Huynh  Michael Tiemeyer
Eboney Jarrett  William Travis Trentham
Gregory Knofczynski

General Information

The Department of Mathematics offers the degree of Bachelor of Science in Mathematical Sciences, with three different options. Option 1 of the mathematics major – “Mathematics” – offers students the most comprehensive collection of mathematics courses and is well suited for students intending to pursue graduate studies in a mathematical science. Option 2 – “Applied Mathematics” – combines a core of mathematics courses with a concentration of courses from another scientific discipline. It is a good choice for students preparing for careers in business and industry, intending to attend graduate school in a quantitative area (such as biostatistics, economics, operations research, or actuarial science), or wishing to participate in a dual-degree program in engineering. Option 3 – “Mathematics with Teacher Certification” – prepares students to teach in public and private secondary schools. This option is an approved program for the Georgia Teacher’s Professional Certificate for secondary mathematics (grades 6-12).

The department also offers a wide range of services to Armstrong students. Several introductory courses are available to satisfy general education requirements as well as prerequisites in other major programs. Intermediate level courses for non-majors are available to enhance the quantitative skills of students in a variety of disciplines. A minor in mathematics or in statistics can be designed to complement students’ major programs. A certificate in Actuarial Sciences is available for those interested in pursuing a career as an actuary.

Progress Requirements

To earn the bachelor’s degree in the mathematical sciences, students must complete all mathematics courses and all courses in their chosen minor or area of concentration required in the program of study with a grade of C or better. In order to complete the prerequisites for a mathematics course other than MATH 2200 or MATH 2008, the prerequisite courses must be completed with a grade of C or better. A grade of C or better is required in each course used toward a minor in Mathematics or Statistics.
Minors

Mathematics .............................................................................................................. 16-17 hours
MATH 2072 Calculus II
Either MATH 2083 Calculus III or MATH 2160 Linear Algebra
Nine additional semester hours chosen from mathematics or statistics courses numbered
3000 or higher (excluding MATH 3201, 3750, 3911, 3912, 3932, 4961, 4962, 4963, 4750,
5412U and 5911U). MATH 3000 and MATH 5600U cannot both be used for the minor.
STAT courses cannot be used simultaneously for a mathematics and statistics minor.

Statistics .......................................................................................................................... 16 hours
MATH 2072 Calculus II
MATH 2160 Linear Algebra
Three courses chosen from:
STAT 3211, STAT 3222, STAT 3231, STAT 3232, STAT 3240

Certificate in Actuarial Sciences

This program offers students the opportunity to prepare for a career as an actuary. In order to
become an actuary, one must pass a number of competency exams in certain disciplines and obtain a
number of educational experiences that pertain to the field of actuarial sciences. These requirements
are determined by the Society of Actuaries (SOA) and the Casualty Actuarial Society (CAS).
The purpose of this program is to prepare students for the Probability (Exam P or Exam 1)
and Financial Mathematics (Exam FM or Exam 2) exams and to provide all the educational
experiences listed by the Validation of Educational Experience (VEE) Requirements to become an
actuary. The certificate will only be offered to students who are earning a degree while completing
the requirements for the certificate; the certificate will be awarded at the time of completion of
the degree. An official certificate and transcript annotation will be made upon completion of the
program. In order to receive the Certificate of Actuarial Sciences, students must earn a grade of B
or better in the following courses:

Certificate of Actuarial Sciences .................................................................................... 21 hours
STAT 3211 Probability and Statistics Applications I
STAT 3222 Probability and Statistics Applications II
ECON 3050 Intermediate Macroeconomics
ECON 3060 Intermediate Microeconomics
ECON 3230 Finance
ECON 3700 Econometrics
MATH 4200 Actuarial Science Seminar

For more information about the certificate or for a career as an actuary, please contact the
Department of Mathematics.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
MATHEMATICAL SCIENCES

A. General Requirements
Core Areas A, B, C, D.IIA, and E .............................................................................. 42 hours
Mathematics majors are required to take MATH 1113 in core area A and MATH 1161 in core
area D
Area F ......................................................................................................................... 18 hours
One hour excess for MATH 1161 from area D
MATH 2072 Calculus II
MATH 2083 Calculus III
MATH 2160 Linear Algebra
CSCI 1301 Introduction to Programming Principles
Three hours of lower division electives
Physical Education ................................................................. 3 hours
First-Year Seminar ............................................................ 1 hour

Complete major field and related area requirements for one of the following options:

Option 1: Mathematics

B. Major Field Courses .......................................................... 27 hours
   MATH 3000 Introduction to Mathematical Proof
   MATH 3110 Abstract Algebra
   STAT 3231 Mathematical Statistics I
   MATH 3411 Differential Equations
   MATH 4011 Advanced Calculus I
   One course selected from:
      MATH 3170 Advanced Linear Algebra
      MATH 4022 Advanced Calculus II
      MATH 5160U Theory of Numbers
   Nine semester hours of upper-division mathematics or statistics courses exclusive of MATH 3201, 3750, 3911, 3912, 3932, 4750, 4961, 4962, 4963, 5412U, 5600U and 5911U

C. Related Field Courses ...................................................... 18 hours
   Six semester hours from either a single foreign language sequence or six semester hours from computer science courses with a prerequisite of at least CSCI 1301.
   Twelve semester hours chosen from courses in the College of Science and Technology or the College of Liberal Arts to complete the requirement of at least 39 semester hours of upper-division courses.

D. Electives ................................................................. 15 hours

Option 2: Applied Mathematics

B. Major Field Courses ....................................................... 21 hours
   MATH 3000 Introduction to Mathematical Proof
   MATH 3411 Differential Equations
   One course selected from:
      STAT 3211 Probability and Statistics Applications I
      STAT 3231 Mathematical Statistics I
   One course selected from:
      MATH 3110 Abstract Algebra
      MATH 3170 Advanced Linear Algebra
      MATH 4011 Advanced Calculus I
      MATH 5160U Theory of Numbers
   Nine semester hours of upper-division mathematics or statistics courses exclusive of MATH 3201, 3750, 3911, 3912, 3932, 4750, 4961, 4962, 4963, 5412U, 5600U and 5911U

C. Related Field Courses .................................................... 18-27 hours
   CSCI 1302 Advanced Programming Principles
   Complete the prescribed courses in one of the following concentration areas and, if needed, additional courses to complete the requirement of at least 39 semester hours of upper-division courses. These additional courses may be chosen from mathematics, the concentration area, ENGL 3720, or HIST 5640U.

Actuarial science:
   ECON 2105 or ECON 2106
   STAT 3211 (if not taken as a major field course)
   STAT 3222
   MATH 4200
   Two courses selected from:
      ECON 3050, 3060, 3230, or 3700

Operations research:
   Complete 6 of the 7 courses:
      STAT 3222 Probability and Statistics Applications II
MATH 3251 Combinatorics
MATH 3460 Introduction to Operations Research
MATH 3480 Optimization
MATH 4340 Graph Theory
MATH 4400 Operations Research Seminar
MATH 4610 Numerical Analysis

Statistics:
STAT 3222 Probability and Statistics Applications II
STAT 3231 Mathematical Statistics I
STAT 3232 Mathematical Statistics II
STAT 3240 Experimental Design
MATH 3251 Combinatorics
MATH 4610 Numerical Analysis

Minor in:
biology, chemistry, computer science, cyber security, information technology, economics,
engineering studies, applied physics, physical sciences, psychology, mental health, or
organizational psychology

D. Electives ................................................................................................................12-21 hours

Total Semester Hours 124 hours

E. Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
MATHEMATICS WITH TEACHER CERTIFICATION

A. General Requirements
Core Areas A, B, C, D.IIA, and E ................................................................. 42 hours
Mathematics majors are required to take MATH 1113 in core area A and MATH 1161 in core
area D

Area F .................................................................................................................... 18 hours
One hour excess for MATH 1161 from area D
MATH 2072 Calculus II
MATH 2083 Calculus III
MATH 2160 Linear Algebra
CSCI 1301 Introduction to Programming Principles I
Three hours of lower division electives

Physical Education .............................................................................................. 3 hours
First-Year Seminar ............................................................................................... 1 hour

B. Major Field Courses ......................................................................................... 24 hours
MATH 3000 Introduction to Mathematical Proof
MATH 3110 Abstract Algebra
MATH 3360 Modern Geometry
MATH 3932 Mathematical Reasoning and Representation
One course selected from:
STAT 3211 Probability and Statistics Applications I
STAT 3231 Mathematical Statistics I

One course selected from:
MATH 5160U Theory of Numbers
MATH 5700U History of Mathematics
Six additional semester hours of upper-division mathematics exclusive of MATH 3201,
3750, 3911, 3912, 3932, 4750, 4961, 4962, 4963, 5412U, 5600U and 5911U

C. Related Field Courses ....................................................................................... 38 hours
EDUC 2110 Investigating Critical and Contemporary Issues in Education
EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Education Contexts
EDUC 2130 Exploring Learning and Teaching
PSYCHOLOGY
Faculty
John Kraft, Interim Department Head
Mirari Elcoro
Taylor Ferguson
Marshall Green
Ho Phi Huynh
Nancy McCarley
Jonathan Roberts
Joshua Williams
Wendy Wolfe
Jane Wong

General Information
Psychology is the study of human and animal behavior (normal and abnormal) and the cognitive, emotional, social, and biological processes related to that behavior. Majoring in psychology can prepare a student for a number of different roles—teacher, researcher, service provider, administrator, or consultant. Psychology is a diverse field with room for students with many different interests and abilities.

The Psychology Department at Armstrong State University offers both a Bachelor of Science (B.S.) and a Bachelor of Arts (B.A.) degree. The B.S. degree in psychology emphasizes the research skills and experiences that prepare students for rigorous graduate programs in a variety of areas of psychology. The B.A. degree in psychology aims to prepare students to enter the workforce soon after graduation. Students in the B.A. degree program must complete an internship and are prepared to work in careers in business and a variety of human service occupations. Minors are also available in psychology, applied behavior analysis, mental health, organizational psychology, and neuroscience.

The Psychology Department has a chapter of Psi Chi, the international honor society in psychology that requires achievement in the discipline for admission, as well as a psychology club that is open to all. Both groups offer students the opportunity to participate in and become informed about psychology-related issues.

Special Programs
An honors section of PSYC 1101 is available, and the department recognizes student achievement by awarding the Stu Worthington Award for Outstanding Academic Achievement and the Cindy McCormick Award for Outstanding Service to seniors in psychology.

Progress Requirements
Candidates for the bachelor of arts or the bachelor of science in psychology must earn a grade of C or better in all courses required in the program, including courses used to complete Area F in the core, and Related Field Courses. All minors also require a C or better in all courses required for the minor.
Minors

PSYC 1101 or PSYC 1101H is a prerequisite for all of the following Psychology minors.

Applied Behavior Analysis ................................................................. 15 hours
PSYC 3160 or 3200, 3400, 5060U, 5061U, and 5062U.
Available to any major.

Psychology .............................................................................................. 15 hours
Fifteen semester hours of upper division course work in Psychology.
Open only to non-majors. Coursework may not be counted toward the Mental Health, Organizational Psychology, or Applied Behavior Analysis minors.

Mental Health ......................................................................................... 15 hours
PSYC 3020, 3160, 3280, 5060U, and one of the following: 3800, 5150U, 5061U, or 5100U.
Courses used as Major Field courses for the Psychology major may not be applied to the Mental Health minor.
Available to any major.

Neuroscience ........................................................................................... 15-16 hours
The Department of Psychology participates in offering an interdisciplinary minor in Neuroscience. See details under “Interdisciplinary Certificates and Minors” in this catalog.

Organizational Psychology ........................................................................ 15 hours
PSYC 3000, 3020, 3200, 5060U, and either 5150U, 5300U or an approved internship (PSYC 4130) or an approved research experience (PSYC 3950).
Courses used as Major Field courses for the Psychology major may not be applied to the Organizational Psychology minor.
Available to any major.

Certificate in Applied Behavior Analysis
Available to students who hold a baccalaureate degree from an accredited institution

Post-Baccalaureate Certificate in Applied Behavior Analysis .................... 18-22 hours
PSYC 1101 or 1101H—Introduction to Psychology
One course selected from:
- PSYC 3160—Clinical Psychology
- PSYC 3200—Industrial and Organizational Psychology
- PSYC 3800—Health Psychology
- PSYC 3400 Introduction to Learning OR both PSYC 4090 and PSYC 4091 Learning and Behavior/Learning and Behavior Laboratory
- PSYC 4130 Senior Internship
- PSYC 5060U Basic Behavior Principles and Behavior Change
- PSYC 5061U Advanced Behavioral Assessment
- PSYC 5062U Advanced Behavior Change Techniques

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PSYCHOLOGY

A. General Requirements
Core Areas A, B, C, D, IIA, and E ......................................................... 42 hours
Area F ................................................................................................. 18 hours
- PSYC 1101 or 1101H Introduction to Psychology
- ANTH 1102 Introduction to Anthropology or PSYC 2000 Ethics and Values in Psychology
- PSYC 2190 Careers and Professional Skills in Psychology
- PSYC 2200 Introduction to Psychological Research
Two of the following courses:
- ITEC 1050, CSCI 1150, ITEC 1310, or another approved course from CSCI/ITEC
Physical Education .................................................................................................................. 3 hours
First-Year Seminar .................................................................................................................. 1 hour
B. Major Field Courses ............................................................................................................. 32 hours
   I. All courses in this section
      PSYC 3090 Physiological Psychology
      PSYC 4050 Advanced Research Design and Analysis (3 hours)
      PSYC 4051 Advanced Research Design and Analysis Lab (1 hour)
      PSYC 4090 Learning and Behavior (3 hours)
      PSYC 4091 Learning and Behavior Laboratory (1 hour)
      PSYC 4100 History and Systems of Psychology
   II. Two courses selected from categories A-C, with no more than one course from a
category:
      Category A:
          PSYC 3070 Sensation and Perception or PSYC 3500 Cognitive Psychology
      Category B:
          PSYC 3080 Evolutionary Psychology or PSYC 3190 Comparative Psychology
      Category C:
          PSYC 5060U Basic Behavior Principles and Behavior Change
   III. Two courses selected from
      PSYC 3020 Psychological Testing
      PSYC 3110 Theories of Personality
      PSYC 3160 Clinical Psychology
      PSYC 3200 Industrial and Organizational Psychology
      PSYC 3280 Abnormal Psychology
      PSYC 5060U Basic Behavior Principles and Behavior Change
      PSYC 5061U Advanced Behavioral Assessment
      PSYC 5100U Women and Mental Health
      PSYC 5150U Conflict Resolution
      PSYC 5300U Leadership & Group Dynamics
   IV. Two courses selected from:
      PSYC 3030 Experimental Social
      PSYC 3050 Child Psychology
      PSYC 3100 Psychology of Human Sexuality
      PSYC 3800 Health Psychology
      PSYC 3850 Sports Psychology
      PSYC 5062U Advanced Behavior Change Techniques
C. Related Field Courses ......................................................................................................... 12 hours
   PSYC 2201 Introduction to Psychological Research Lab
   BIOL 1107/1107L or BIOL 1107H/1107A Principles of Biology I
   And
   BIOL 1108 or BIOL 1108H Principles of Biology II if not taken for Area D
   3 hours of Core Area D.I.3 courses, or any PSYC class not taken for other degree requirements
   If BIOL 1107/1107L or BIOL 1107H/1107A and BIOL 1108 or BIOL 1108H were taken for
   Area D, then 8 additional hours from Core Area D.I.3 courses, or any PSYC class not
   taken for other degree requirements
D. Electives ............................................................................................................................. 16 hours
   7 credit hours of any 3000, 4000, or 5000 level courses
   3 credit hours of free electives
   6 credit hours of approved electives in Biology, Chemistry, Mathematics, or Physics.

Total Semester Hours ............................................................................................................... 124
E. Exit Exam
# Program for the Degree of Bachelor of Arts in Psychology

## A. General Requirements

<table>
<thead>
<tr>
<th>Core Areas A, B, C, D.I, and E</th>
<th>42 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F</td>
<td>18 hours</td>
</tr>
<tr>
<td>PSYC 1101 or PSYC 1101H Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 2000 Ethics and Values in Psychology</td>
<td></td>
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<tr>
<td>PSYC 2190 Careers and Professional Skills in Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 2200 Introduction to Psychological Research</td>
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</tr>
<tr>
<td>MATH 2200 Elementary Statistics</td>
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<tr>
<td>ITEC 1050, CSCI 1150, ITEC 1310, or another approved course from CSCI/ITEC</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>First-Year Seminar</td>
<td>1 hour</td>
</tr>
</tbody>
</table>

## B. Major Field Courses

<table>
<thead>
<tr>
<th>I. All courses in this section:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3000 Human Resource Dev Skills</td>
</tr>
<tr>
<td>PSYC 4050 Advanced Research Design and Analysis</td>
</tr>
<tr>
<td>PSYC 4100 History and Systems of Psychology</td>
</tr>
<tr>
<td>PSYC 4130 Senior Internship</td>
</tr>
<tr>
<td>One course selected from:</td>
</tr>
<tr>
<td>PSYC 3200 Industrial and Organizational Psychology</td>
</tr>
<tr>
<td>PSYC 5060U Basic Behavior Principles and Behavior Change</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. One course selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3070 Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 3080 Evolutionary Psychology</td>
</tr>
<tr>
<td>PSYC 3090 Physiological Psychology</td>
</tr>
<tr>
<td>PSYC 3190 Comparative Psychology</td>
</tr>
<tr>
<td>PSYC 3500 Cognitive Psychology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III. Two courses selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3200 Industrial and Organizational Psychology</td>
</tr>
<tr>
<td>PSYC 5150U Conflict Resolution</td>
</tr>
<tr>
<td>PSYC 5300U Leadership and Group Dynamics</td>
</tr>
<tr>
<td>PSYC 5060U Basic Behavior Principles and Behavior Change or PSYC 5061U Advanced Behavioral Assessment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV. One course selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3020 Psychological Testing</td>
</tr>
<tr>
<td>PSYC 3110 Theories of Personality</td>
</tr>
<tr>
<td>PSYC 3160 Clinical Psychology</td>
</tr>
<tr>
<td>PSYC 3280 Abnormal Psychology</td>
</tr>
<tr>
<td>PSYC 5061U Advanced Behavioral Assessment or PSYC 5062U Advanced Behavior Change Techniques</td>
</tr>
<tr>
<td>PSYC 5100U Women and Mental Health</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>V. One course selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3030 Experimental Social Psychology</td>
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## C. Related Field Courses

<table>
<thead>
<tr>
<th>I. All courses in this section:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 2201 Introduction to Psychological Research Lab</td>
</tr>
<tr>
<td>PSYC 3400 Introduction to Learning</td>
</tr>
<tr>
<td>Foreign Language 1002</td>
</tr>
</tbody>
</table>
II. One sequence from:
Foreign Language 2001 and 2002
ACCT 2101 and ACCT 2102 Accounting I and II
ECON 2105 and 2106 Principles of Macroeconomics and Principles of Microeconomics (if not used to fulfill Area E of the core)

D. Electives ..................................................................................................................... 17 hours
Six hours upper-division electives (3000+ level)
Six hours from BIOL. If hours are already satisfied in Area D, then 6 hours are to be added to free electives.
Five hours free electives

Total Semester Hours 124 hours

E. Exit Exam
Interdisciplinary Degree Programs

BACHELOR OF LIBERAL STUDIES and ASSOCIATE OF ARTS
Jack Simmons, Director
Peggy Clifton, Coordinator

General Information
Liberal Studies associate and baccalaureate degree programs operate under the general guidance of the dean of the College of Liberal Arts and the immediate supervision of the director of Liberal Studies. Two liberal studies degrees are offered: the associate of arts, providing a substantial liberal education as a base for upper-division specialization; and the bachelor of liberal studies, designed primarily for mature students with clearly defined academic and career goals. Faculty advisors from appropriate departments of the university provide curriculum guidance in particular areas of concentration. Working closely with both the liberal studies staff and faculty advisors, students prepare individual programs of study consistent with their own plans and expectations. Up to one-fourth of the credit required for the bachelor of liberal studies degree may be satisfied through successful completion of Armstrong-approved examinations and university-level independent study courses. To accommodate the needs of nontraditional students, advisement sessions can be scheduled during weekday evenings, as well as during normal business hours. Interested students should contact the Office of Liberal Studies to schedule appointments.

Special Programs
Both the associate of arts and the bachelor of liberal studies degrees are available through the Armstrong Liberty Center in Hinesville, Georgia. For further information, contact the Armstrong counselor at the Armstrong Liberty Center.

Progress Requirements
To qualify for either the associate of arts or the bachelor of liberal studies degree, a student must earn at Armstrong at least 25% of the credits required for the degree.
For the associate of arts and bachelor of liberal studies, students must submit an application for undergraduate graduation to the liberal studies coordinator for approval at least two semesters prior to anticipated graduation. No more than two Ds may be earned in the liberal studies area, and all grades in the area of concentration must be C or better.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF ARTS
A. General Requirements (Core Areas A, B, C, D.I, and E) ...................................... 42 hours
   Physical Education ................................................................. 2 hours
   First-Year Seminar ........................................................................ 1 hour
B. Additional Requirements ....................................................................... 18 hours
   COMM 2280 Speech Communication
Fifteen credit hours of electives. Students planning work toward a baccalaureate degree should select courses that meet listed requirements of that degree program.

Total Semester Hours 63 hours
C. University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF LIBERAL STUDIES
A. General Requirements (Core Areas A, B, C, D.I, and E) .............................. 42 hours
   Core Area F ............................................................................. 18 hours
   COMM 2280 Speech Communication
One or two courses selected from:
- ARTS 1100 Art Appreciation
- ARTS 2710 Art History I
- ARTS 2720 Art History II
- ARTS 1270/MUSC 1270 World Art and Music
- MUSC 1100 Music Appreciation
- PHIL 2010 Introduction to Philosophy
- PHIL 2030 Ethics and Contemporary Moral Philosophy
- THEA 1100 Theatre Appreciation
- THEA 1200 Introduction to Theatre
- THEA 2410 Oral Interpretation
Two foreign language courses beyond 1001 in sequence

One or two courses selected from:
- AFAS 2000 Introduction to African American Studies
- ANTH 1102 Introduction to Anthropology
- CSCI 1060 Computer Programming Concepts
- ECON 2105 Principles of Macroeconomics
- ECON 2106 Principles of Microeconomics
- GEOG 2120 Cultural Geography
- GNST 1101 Introduction to Gender Studies
- HIST 2111 History of America to 1877
- HIST 2112 History of America Since 1865
- ITEC 1050 Introduction to Computer Concepts and Applications
- ITEC 1300 Fundamentals of Information Technology
- ITEC 1310 Programming in Visual Basic
- POLS 2100 Introduction to Political Science
- PSYC 1101/H Introduction to Psychology/Honors
- SOCI 1101 Introductory Sociology

One or two core area D courses (not used for core area D)

Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Major Field Courses
Minimum of 39 hours at 3000 level or above
Maximum of 27 hours in any discipline (excluding courses taken under General Requirements)
No more than two Ds in the Liberal Studies section
At least 9 of the 18 hours in the Liberal Studies section must be completed at Armstrong.

Liberal Studies .......................................................................................................... 18 hours
Must be at 2000 level or above

Humanities (3-6 hours)
Choice of:
- Art, literature, history, music, philosophy, theatre

Social Sciences (3-6 hours)
Choice of:
- Anthropology, criminal justice, economics, geography, political science, psychology, sociology

Math, Natural Science, and Technology (3-6 hours)
Choice of:
- Astronomy, biology, chemistry, computer science, geology, mathematics, meteorology, oceanography, physics

Communication Arts (3-6 hours)
Choice of:
- Advanced composition, communications, film, foreign languages, journalism, linguistics, rhetoric, technical and business writing
C. Area of Concentration.............................................................................................................. 42 hours

Select one of the following tracks:

**Track 1: General Liberal Studies**

15 credit hours at the 3000 level or above with a grade no lower than a C for each course.
All 15 credit hours must be from the same Armstrong major, minor or program of study and be approved by the Director of Liberal Studies.
27 credit hours electives

**Track 2: Philosophy**

21 credit hours of PHIL at the 3000 level or above with a grade no lower than a C for each course.
21 credit hours electives

**Track 3: International Affairs**

Select one of the following*:

- POLS 1150 World Politics
- POLS 2290 Foundations of International Relations

*If not taken in the core curriculum or in the Liberal Studies major field courses.

Foreign Language 1001, 1002, 2001 (6-9 hours*)

*If not taken in the core curriculum or in the Liberal Studies major field courses.

Select 15 credit hours from the list below, in at least 3 different disciplines:

- CRJU 3120 Illegal Immigration
- CRJU 3600 International Crimes
- CRJU 5520U Comparative Judicial Systems
- ECON 3100 Multinational Economic Enterprises
- ECON 3200 International Trade
- ECON 3460 Economics of Immigration
- ECON 4310 International Finance
- ECON 4330 International Economics
- ECON 4400 Seminar in the Third World Economic Development
- ECON 4450 Comparative Economics
- EURO 3990 Topics in European Union Studies
- EURO 4500 Seminar in European Union Studies
- ENGL 5200U Postcolonial Literature
- ENGL 5215U Literature of the Non-Western World
- GEOG 5550U Geography of South Asia
- HIST 3100 History of Latin America to 1850
- HIST 3110 History of Latin America Since 1850
- HIST 3150 History of Africa to 1800
- HIST 3160 History of Africa Since 1800
- HIST 3200 Traditional China
- HIST 3210 Modern China
- HIST 3220 History of Japan
- HIST 3225 History of the Ancient Near East
- HIST 3230 History of Middle East
- HIST 3300 Modern Russia
- HIST 3330 Modern Germany
- HIST 3360 Modern East Central Europe
- HIST 3390 Modern France
- HIST 5100U Topics in Latin American History
- HIST 5150U Topics in Middle Eastern History
- HIST 5200U Topics in African History
- HIST 5250U Topics in Asian History
- HIST 5300U History of Russian and Soviet Foreign Policy
- HIST 5480U Topics in European History
- HIST 5490U Topics in European Intellectual and Cultural History
HIST 5500U Topics in British History
HIST 5540U Topics in U.S. Foreign Relations
LWSO 4172 Terrorism and National Security Law
PHIL 3200 Technology, Society, and Human Values
POLS 3340 Politics and Ideology in Contemporary Europe
POLS 4172 Terrorism and National Security Law
POLS 4200 Independent Study in International Relations
POLS 4400 Independent Study in Comparative Government
POLS 5140U Asian Regional Security
CRJU 5130U/POLS 5130U Political Terrorism
POLS 5210U International Law
POLS 5220U Theory of International Relations
POLS 5250U International Organizations
POLS 5260U Media and Politics in Latin America
POLS 5290U American Foreign Policy
POLS 5300U Marxism, Socialism, and Democracy
POLS 5410U Asia and the United States
POLS 5420U Politics of the Middle East
POLS 5430U African Politics
POLS 5440U Latin American Politics
POLS 5450U Political Sociology of Nationalism
POLS 5460U Politics of East Asia
POLS 5490U Political Transformation of the Former Soviet Union
POLS 5510U Third World National
POLS 5520U Comparative Judicial Systems
POLS 5530U Global Environmental Politics
POLS 5560U Comparative Foreign Policy
POLS 5570U Politics & Security in Southwest Asia
SOCI 5450U Political Sociology of Nationalism

15-27 credit hours electives

**Track 4: Sociology**

*Note: All courses in the Sociology track must be completed with a grade of C or better.*

MATH 2200* Elementary Statistics (Grade of C or better)

*If not completed in the core curriculum.

SOCI 3360 Social Theory (Grade of C or better)

Select one of the following (Grade of C or better)

SOCI 3400 Methods of Social Research
CRJU 3100 Research Methods
POLS 4950 Political Research Methods

15 credit hours of SOCI at the 3000 level or above

18-21 credit hours electives

**Total Semester Hours** 124 hours

**C. University Exit Exam**

**ASSOCIATE OF SCIENCE**

The associate of science degree has multiple tracks that allow the student to complete core curriculum requirements in addition to taking courses in specialized fields. Students who complete the associate of science may choose to continue their studies by pursuing a bachelor's degree in their area of specialization. Tracks offered are Business, Communication Sciences and Disorders, Engineering Studies, Health Sciences, Medical Laboratory Science, Nursing, Radiologic Sciences, Rehabilitation Sciences, and Respiratory Therapy. To learn more about the fields of study, refer to the appropriate department.
PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

Business Track

A. General Requirements (Core Areas A, B, C, D.I, and E) ............................................... 42 hours
   MATH 2200 Elementary Statistics required in area D.I.3
   Physical Education ............................................................................................................. 3 hours
   First-Year Seminar ........................................................................................................... 1 hour

B. Additional Requirements .............................................................................................. 18 hours
   Choose 18 hours from:
   - ACCT 2101 Principles of Financial Accounting
   - ACCT 2102 Principles of Managerial Accounting
   - BUSA 2106 Environment of Business
   - COMM 2280 Speech Communication
   - ECON 2105 Principles of Macroeconomics
   - ECON 2106 Principles of Microeconomics
   - ITEC 1050 Introduction to Computer Concepts and Applications
   - MATH 1950 Applied Math for Non-Science Majors or MATH 1161 Calculus I

Total Semester Hours 64

C. University Exit Exam

Communication Sciences and Disorders Track

A. General Requirements (Core Areas A, B, C, D.IIB, E) .................................................. 42 hours
   Physical Education ............................................................................................................. 3 hours
   First-Year Seminar ........................................................................................................... 1 hour

B. Additional Requirements .............................................................................................. 18 hours
   CHEM 1151 Survey of Chemistry I
   CHEM 1151L Survey of Chemistry I Laboratory
   CSDS 1220 Introduction to Communication Disorders
   HLPR 2000 Introduction to Research in the Health Professions
   HSCC 2200 Health Communication
   HSCC 2500 Health Issues and Resources
   PSYC 1101 Introduction to Psychology or PSYC 2950 Lifespan Developmental Psychology

Total Semester Hours 64

C. University Exit Exam

Cyber Security Track

A. General Requirements (Core Areas A, B, C, D.I, and E) ................................................ 42 hours
   Physical Education ............................................................................................................. 3 hours
   First-Year Seminar ........................................................................................................... 1 hour

B. Additional Requirements .............................................................................................. 18 hours
   MATH 1111 College Algebra (if not taken in Core Area A)
   ITEC 1310 Programming for IT
   CSCI 2070 Ethical Considerations in Computer Science
   ITEC 3700 Cyber Security I
   ITEC 4200 Cyber Security II, Network Security
   ITEC 4300 Cyber Security III, Ethical Hacking
   If MATH 1111 was taken in Core A, then select one of the following:
      MATH 1113 Pre-Calculus Mathematics
      CSCI 1150 Fundamentals of the Internet and the World Wide Web (if not taken in Area D)

Total Semester Hours 64

C. University Exit Exam
Engineering Studies Track
A. General Requirements (Core Areas A, B, C, D.IIA, E) ......................................... 42 hours
   In core area A, MATH 1161 Calculus I must be taken
   In core area D, MATH 2072 Calculus II must be taken for the course in mathematics,
   science, or technology
   In core area D, the laboratory science sequence must be taken from:
      BIOL 1107/1107L or 1107H/1107A and BIOL 1108 or 1108H (and labs) Principles of
      Biology I/II
      CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of
      Chemistry I/II
      PHYS 2211K/2212K Principles of Physics I/II

Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour

B. Additional Requirements ......................................................................................... 18 hours
   ENGR 1170 Engineering Graphics or ENGR 2030 Introduction to Computer Engineering
   ENGR 1371 Computing for Engineers or CSCI 1301 Introduction to Programming
   Principles
   6 hours of 2000 or higher-level ENGR courses (excluding ENGR 3960, 4990, 4999)
   One hour excess from Area A
   One hour excess from Area D
   An additional laboratory course (not taken in area D of General Requirements) taken from:
      BIOL 1107/1107L or 1107H/1107A and BIOL 1108 or 1108H (and labs) Principles of
      Biology I/II
      CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of
      Chemistry I/II
      PHYS 2211K/2212K Principles of Physics I/II

Total Semester Hours 64
C. University Exit Exam

Health Sciences Track
A. General Requirements (Core Areas A, B, C, D.I, E) .............................................. 42 hours
   Physical Education ................................................................................................... 3 hours
   First-Year Seminar ................................................................................................. 1 hour

B. Additional Requirements ........................................................................................ 18 hours
   HSCC 2200 Health Communication
   HSCC 2300 Management of Health Information
   HSCC 2500 Health Issues and Resources
   RESP 2110 Medical Terminology
   MATH 2200 Elementary Statistics*
   One** course selected from:
      ANTH 1102 Introduction to Anthropology**
      ECON 2105 Principles of Macroeconomics**
      PSYC 1101 Introduction to Psychology**
      SOCI 1101 Introductory Sociology**
   * If not taken in area D.
   **If MATH 2200 is taken in Area D, select a second course from the list.

Total Semester Hours 64
C. University Exit Exam
Medical Laboratory Science Track
A. General Requirements (Core Areas A, B, C, D.IIB, E) ........................................ 42 hours
   In core area D:
   CHEM 1211/1211L and either CHEM 1212/1212L or 1212H (and lab) Principles of Chemistry I/II
   MATH 2200 Elementary Statistics
   Physical Education ........................................................................................................ 3 hours
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements .......................................................................................... 18 hours
   BIOL 1107/1107L or BIOL 1107H/1107A Principles of Biology I
   BIOL 2081/2082 Human Anatomy & Physiology I/II (and labs)
   CHEM 2101 Organic Chemistry I or CHEM 2000 Fundamentals of Organic Chemistry and Biochemistry
   Other approved course (e.g., biology, chemistry, computer science)

Total Semester Hours 64
C. University Exit Exam

Nursing Track
A. General Requirements (Core Areas A, B, C, D.IIB, E) ........................................ 42 hours
   Physical Education ........................................................................................................ 3 hours
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements .......................................................................................... 18 hours
   BIOL 2081/2082 Human Anatomy & Physiology I/II (and labs)
   BIOL 2275 Microorganisms and Disease (and lab)
   PSYC 1101 Introduction to Psychology
   PSYC 2950 Lifespan Developmental Psychology

Total Semester Hours 64
C. University Exit Exam

Radiologic Sciences Track
A. General Requirements (Core Areas A, B, C, D.IIB, E) ........................................ 42 hours
   Physical Education ........................................................................................................ 3 hours
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements (Core Area F) ................................................................. 18 hours
   BIOL 2081 Human Anatomy and Physiology I
   BIOL 2082 Human Anatomy and Physiology II
   HLPR 2000 Introduction to Research in Health Professions
   Guided Electives from the following list (4 credit hours)
   RADS 2000 Terminology of Imaging and Radiologic Sciences OR RESP 2110 Medical Terminology
   COMM 2280, or a lower-level class (1000- or 2000-level) in MATH, CSCI, ITEC, BIOL, CHEM, PHYS, PHSC, ASTR, GEOL, or ISCI
   One of the following:
   PHSC 1211/1211L Physical Environment and Lab
   PHYS 1111K Introductory Physics I

Total Semester Hours 64
C. University Exit Exam

Rehabilitation Sciences Track
A. General Requirement (Core Areas A, B, C, D.IIA, E)............................................ 42 hours
   Physical Education ........................................................................................................ 3 hours
   First-Year Seminar ........................................................................................................ 1 hour
B. Additional Requirements .................................................................................................. 18 hours
   HLPR 2000 Introduction to Research in the Health Professions
   BIOL 2081/2082 Human Anatomy & Physiology I/II
   One of the following sequences:
      BIOL 1107/1107 L and BIOL 1108 (and lab) Principles of Biology I/II
      CHEM 1211/1211L and CHEM1212/1212L Principles of Chemistry I/II

Total Semester Hours 64

C. University Exit Exam

Respiratory Therapy Track

A. General Requirements (Core Areas A, B, C, D, E) ......................................................... 42 hours
   Physical Education ........................................................................................................... 3 hours
   First-Year Seminar ........................................................................................................... 1 hour

B. Additional Requirements .................................................................................................. 18 hours
   BIOL 2081/2082 Human Anatomy & Physiology I/II
   BIOL 2275 Microorganisms and Disease
   PHSC 1211 Physical Environment
   or
   PHYS 1111K Introduction to Physics I
   Approved Elective

Total Semester Hours 64

C. University Exit Exam

GENDER STUDIES

Jane Rago, Coordinator

The Gender Studies program offers a bachelor of arts degree. It is an interdisciplinary field, offering essential academic inquiry in diverse areas, such as literature, history, art, health, and psychology, as well as examining men’s and women’s roles, achievements, and experiences in social activism, both historically and also across cultures. This program is designed to bring to light valuable knowledge about gender and power in the family and at work, in the arts, in politics, and in the sciences—information that traditional scholarship has often overlooked. Armstrong’s Gender Studies program also explores the relationship between cultural ideologies of human behavior and identity. It considers the ways class, race, ethnicity, nationality, sexuality, and age shape our experiences; and examines the ways in which gender is socially and culturally constructed.

Undergraduate students may also complete a minor in Gender Studies.

Minor

Gender Studies ..................................................................................................................... 15 hours

Note: At least nine semester hours must be from courses numbered 3000 or higher.

Select from the following:

   Three to six hours selected from GNST 1101, GNST 2101
PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN GENDER STUDIES

A. General Requirements
   Core Areas A, B, C, D, I, and E ................................................................. 42 hours
   Area F ........................................................................................................... 18 hours
      GNST 1101 Introduction to Gender Studies
      GNST 2101 Ethics, Values, and Gender
      GNST 2200 Gender in Global Contexts
      Foreign language 1002 (3 credit hours)
      Foreign language 2001 (3 credit hours)
      ENGL 2100 Literature and Humanities
   Physical Education .................................................................................... 3 hours
   First-Year Seminar ................................................................................... 1 hour

B. Major Field Courses
   Minimum of 39 hours at 3000 level or above
   Required Courses in the Major Field ...................................................... 15 hours
      GNST 5700U Perspectives in Feminist Theory
      GNST 4900 Gender Studies Junior/Senior Seminar
      GNST/SOCI 5600U Sociology of Gender
      FILM 5040U Women and Film
      HIST 3740 History of American Women
   Additional Major Field Courses
   List A: Arts and Humanities (3000 or above) ......................................... 6 hours
      Choose from:
      ENGL 5340U Literature by Women
      ENGL 5355U Black Women Writers
      FILM 5025U Popular Culture Theory and Criticism
      GNST 4700 Gender Studies Internship
      GNST 5000U Topics in Gender Studies
      GNST 5500U Topics in Women’s Leadership
      HIST 5660U Topics in the History of Women and Gender in America
      HIST 5670U Topics in the History of Women and Gender in Europe
   List B: Social/Behavioral Sciences and Health Professions (3000 or above) ......... 6 hours
      Choose from:
      GNST 4700 Gender Studies Internship
      NURS 3355 Women’s Health
      COMM 5500U Communication between the Genders
      PSYC 3100 Human Sexuality
      PUBH 5570U Women and Minority Health Issues
      PUBH 5575U Health and Sexuality Education
      SOCI 3150 Sociology of the Family
      SOCI 3300 Social Stratification
      SOCI/GNST 3510 Gender, Violence and Society
      SOCI 3800 Sociology of Sexuality

C. Minor ................................................................................................. 15-18 hours
   A university-approved minor in another area of study.

D. Electives ......................................................................................... 15-18 hours

Total Semester Hours ........................................................................ 124 hours

E. Exit Exam
LAW AND SOCIETY
Becky Kohler da Cruz, Coordinator

General Information
The Bachelor of Arts in Law and Society is an interdisciplinary major that includes the study of law as an academic discipline — which is very different from the professional study of law — in close relationship with critical issues in society. The program of study is intended primarily to attract students who are drawn to (a) public service at some level of government; (b) public service with non-profit or public assistance organizations; or (c) graduate studies in the Social Sciences or Liberal Arts.

Special Programs
A student may graduate with honors in Law and Society by completing a project pursuing a special interest within his or her respective discipline. This project is to be reflective of the rigorous academic criteria of both the University’s Honors program and advanced research within the discipline. To be eligible for the honors project, the student must possess an overall GPA of 3.2. Typically, research projects are developed in a required research methods class (CRJU 3100 or POLS 4950) and then completed the following semester in either POLS 4651 Practicum or CRJU 4900 Directed Research. This project meets the “Honors in the Major” component for the students in the University Honors Program. Pending approval by the student’s honors committee in the department and the University Honors Program, the student’s transcript will be designated accordingly. The awarding of honors requires that students earn an A in the final directed research or readings course. See department for policies.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN LAW AND SOCIETY
A. General Requirements
Core Areas A, B, C, D.I, and E ................................................................................ 42 hours
Area F ......................................................................................................................... 18 hours
- MATH 2200 Elementary Statistics
- COMM 2280 Speech Communication, or
- CRJU 1130 Interpersonal Communication Skills
- POLS 2100 Introduction to Political Science, or
- POLS 2200 Introduction to American Government
- A second Ethics and Values course at the 1000 or 2000 level
- Two introductory (1000 and 2000 level) courses from:
  - ANTH 1102, CRJU 1100, ECON 1101 ECON 1150, ECON 2105, ECON 2106, GEOG 2120, PHIL 2010, PSYC 1101, SOCI 1101, POLS 1150, GNST 1101, if not taken to satisfy Core Area E
Physical Education ..................................................................................................... 3 hours
First-Year Seminar ........................................................................................................ 1 hour
B. Major Field Courses ................................................................................................. 36 hours
In addition to the required courses, select six courses in one of three specialized tracks:
Required Courses
- CRJU 3100 Research Methods or
- POLS 4950 Political Research Methods
- CRJU/POLS 5500U Law and Legal Process
- POLS 3150 American Supreme Court
- LWSO 2000 Introduction to Law and Society
- ENGL 3800 Advanced Composition*
- ENGL 5730U Rhetoric*
*Substitutions possible in consultation with program coordinator.
Track One: Government and Judicial Studies
CRJU 3110 Critical Theory of Criminal Justice
CRJU 3140 Political Crimes
CRJU 3160 White Collar and Org. Crime
CRJU 3170 Criminal Justice Administration
CRJU 4500 Advanced Criminal Evidence
CRJU 4510 Advanced Criminal Law
CRJU 4900 Directed Research in Criminal Justice
CRJU 5130U Political Terrorism
HSCC 3110 Legal Issues in the Health Care Environment
HIST 3740 Women in American History
HIST 5565U Topics in the History of American Reform
LWSO/POL 4190 Environmental Law and Regulations
POLS 3160 American Judicial Politics and Strategies
POLS 3170 Constitutional Law and the Federal System
POLS 3190 American Military Law
POLS 3980 African-American and the American Political System
POLS 4171 Constitutional Law and Civil Liberties
CRJU/LWSO/POLS 4172 Terrorism and National Security Law
NOTE: Numerous ECON Courses are Available for this Track; Check With Program Coordinator

Track Two: Human Behavior and Law
ANTH 3100 Anthropology of Sex and Gender
CRJU 3130 Hate Crimes and Ordered Liberty
CRJU 3160 White-Collar and Organized Crime
CRJU 3180 Deviance and Social Control
CRJU 3300 Criminology
CRJU 3410 Community-Based Treatment
CRJU 5200U Alcohol, Drugs, and Criminal Justice
CRJU 5300U Juvenile Delinquency
ECON 5400U Economics of Labor
GNST 5000U Topics in Gender Studies
HIST 3640 American Social History
HSCC 3130 Health Policy Issues
PSYC 3000 Human Resources Development Skills
PSYC 3030 Experimental Social Psychology
PSYC 3110 Theories of Personality
PSYC 3200 Industrial and Organizational Psychology
PSYC 3280 Abnormal Psychology
PSYC 5100U Women and Mental Health
PSYC 5150U Conflict Resolution
PSYC 5300U Leadership and Group Dynamics
SOCI 3200 Racial and Ethnic Minorities
SOCI 3500 Social Problems
SOCI/GNST 3510 Gender, Violence and Society
SOCI 4300 Alcohol and Drug Studies

Track Three: Social Theory and Philosophy
CRJU 3110 Critical Theory of Criminal Justice
ENGL 5815U Literary Theory
GNST 5600U Sociology of Gender
GNST 5700U Perspectives in Feminist Theory
HIST 5565U Topics in the History of American Reform
PHIL 3150 20th Century Philosophy
PHIL 3200 Technology, Society, and Human Values
PHIL 3330 Philosophy of Religion
POLS 3320 American Political Thought
POLS 3350 Classics of Political Thought
POLS/SOCI 3360 Social Theory
POLS 5300U Marxism, Socialism, and Democracy
PSYC 3000 Human Resources Development Skills
PSYC 3030 Experimental Social Psychology
PSYC 5150U Conflict Resolution
SOCI 3150 Sociology of the Family

C. Approved Electives ................................................................. 15 hours
   15 hours of any 3000 or above level courses

D. Free Electives ................................................................. 9 hours

Total Semester Hours 124 hours

E. Exit Exam
Interdisciplinary Certificates and Minors

INTERNATIONAL EDUCATION PROGRAMS
James Anderson, Director

Study Abroad

Study abroad programs sponsored by Armstrong and the University System of Georgia provide students with the opportunity to study abroad while earning academic credit toward completion of the degree requirements at their home campus. Armstrong has in recent years offered summer study abroad programs in Argentina, Belize, Chile, China, Costa Rica, Czech Republic, Denmark, France, Ghana, Germany, Ireland, Kazakhstan, London, Mexico, and Spain, while the University System of Georgia offers summer study programs in countries around the world: Argentina, Australia, Brazil, Canada, China, Costa Rica, England, Estonia, Ethiopia, France, Germany, Italy, the Ivory Coast, Japan, Mexico, Spain, and Tanzania. In addition, semester and academic year study abroad opportunities are available in more than 45 countries. Contact the Office of International Education for the current list of offerings. Studying abroad provides the opportunity to gain appreciation for the cultures and institutions of other peoples, facilitates the development of relevant career skills, and contributes to personal maturity, a sense of independence, self-knowledge, and confidence.

Study abroad programs are open to all undergraduate and some graduate students; however, certain programs may require the completion of prerequisites. Students in the University System of Georgia who are eligible for financial aid may use that aid toward study abroad programs. A limited number of USG Stars scholarships are available. For further information, contact the Office of International Education. (912.344.3128).

International Studies Minor

International Studies ................................................................. 18 hours

Foreign Language 1002 or 2001*

*Competency in foreign language through the 1002 level also may be demonstrated through AP exams or CLEP tests

One course from the following:** ECON 1150, POLS 1150, POLS 2290

**If one has already been taken in Area B, student may take one of the other two, or substitute one of those listed below. Courses taken to satisfy Area A through E may not be counted as coursework in the minor. Courses taken in Area F may be counted in the minor.

CRJU 2010, ECON 2105, ECON 2106, EURO 2000, GEOG 1100, GEOG 2120, GNST 2200, HUMN 2960, PSYC 2300, SOCI 1101, SABR 2960

The minor requires 12 hours of upper level coursework. 3 of these hours may be within the section of the major labeled "Major Field."

Two courses from the following: ECON 3200, ECON 3450, ECON 4310, ECON 4400, HIST 5100U, HIST 5300U, HIST 5480U, HIST 5540U, POLS 3210, POLS 5210U, POLS 5220U, POLS 5250U, POLS 5260U, POLS 5280U, POLS 5290U, POLS 5270U, POLS/CRJU 5130U

EUROPEAN UNION AND LATIN AMERICAN STUDIES

European Union Studies Minor

European Union Studies ................................................................. 15 hours

EURO 2000 Introduction to the European Union
Nine hours from a multidisciplinary menu that includes the following campus (with at least a 25% EU component) as well as online courses: BIOL 3100, ECON 3100, ECON 3200, ECON 3450, HIST 3330, HIST 3360, HIST 3390, HIST 4831, HIST 5480U, HIST 5490U, HIST 5670, POLS 3340, EURO 3990, EURO 4130, EURO 4160, EURO 4230, EURO 4260, EURO 4330, EURO 4430, EURO 4530, EURO 4630, EURO 4730, EURO 4760

Capstone seminar: EURO 4500 or EURO 4830

Certificate in European Union Studies

The European Union Studies Certificate provides an in-depth study of the European Union (EU) and its relationship with the United States and other nations. It is a collaborative program of Armstrong and the European Union Studies Program of the University System of Georgia. The program offers an in-depth, multidisciplinary curriculum to students from all academic majors. The certificate offers the opportunity to develop a minor in European Union Studies.

A certificate in EU Studies can be taken in tandem with a formal degree program. Students from all academic majors are eligible to participate as long as they possess a minimum 2.75 cumulative GPA. A student may formally apply to enroll in the program after successful completion of the following:

- EURO 2000 Introduction to the European Union with a grade of C or better
- 30 semester hours of academic credit
- History 1111 or 1112

The capstone seminar is recommended as part of the program.

Undergraduate Certificate in European Union Studies ............................................. 18 hours

Note: students must maintain a 3.0 cumulative GPA upon graduation.

EURO 2000 Introduction to the European Union
Four courses from a multidisciplinary menu that includes the following campus (with at least a 25% EU component) as well as online courses: BIOL 3100, ECON 3100, ECON 3200, ECON 3450, HIST 3330, HIST 3360, HIST 3390, HIST 4831, HIST 5480U, HIST 5490U, HIST 5670, POLS 3340, EURO 3990, EURO 4130, EURO 4160, EURO 4230, EURO 4260, EURO 4330, EURO 4430, EURO 4530, EURO 4630, EURO 4730, EURO 4760

Capstone seminar: EURO 4500 or EURO 4830

PRACTICUM EXPERIENCE. The required practicum experience can be fulfilled by a study abroad course or a hands-on internship. The practicum experience must be approved by the program’s campus representative.

AREAS OF DISTINCTION. The certificate also highlights special achievements by providing a notation of “distinction” in two areas:

- Foreign language proficiency (6 semester hours at or above the 2000 level)
- Composition of a thesis

Certificate in Latin American Studies (CLAS)

William Deaver, Coordinator

As a collaborative program of the University System of Georgia and the Americas Council, the Certificate in Latin American Studies provides an in-depth study of Latin America and its relationship with the United States and other nations. The CLAS offers a common curriculum open to all university system institutions. The program recognizes a student’s knowledge and understanding of a region of growing importance, both economically and culturally. The course of
study is designed to be interdisciplinary and complementary to existing undergraduate programs. Students who satisfy the certificate requirements in their undergraduate degree will be awarded a Certificate in Latin American Studies which will be noted in the student’s placement materials and on their transcript.

A certificate in Latin American Studies must be taken in conjunction with a formal degree program. Students from all majors who hold a 2.80 GPA are eligible to participate. A student may formally apply to enroll in the program after successful completion of thirty hours of academic credit and either HIST 3110 History of Latin America since 1850 or SPAN 3120 Civilization and Culture of Latin America.

**Undergraduate Certificate in Latin American Studies**................................................ 18 hours

**Language requirement**

- 0-6 hours of Spanish or French at the 3000 level or above. These hours may be taken as part of an approved study abroad program as long as the course is beyond the intermediate level.
- **or**

  Demonstration of written and oral proficiency in Spanish, Portuguese, French, Haitian Creole, or Quechua. Demonstration of language proficiency above the intermediate level as defined by ACTFL standards through examination, a grade of C or better at the 3000 level, or successful completion of an oral and written examination evaluated by a qualified University System of Georgia faculty member (for Haitian Creole and Quechua).

One of the following: HIST 3110, SPAN 3120

Three courses (9 hours) in Latin American Studies, two of which must be from outside the student’s major, from the following:

- Any Latin American upper division courses offered in the University System of Georgia
- Six hours may come from courses that have a minimum 25% Latin American component
- No more than six hours from study abroad or internships
- No more than one course may be taken at the 1000-2000 level

All courses, study abroad programs, and internships must be approved by the director of International Education (Dr. James Anderson) or the campus CLAS Coordinator (Dr. Bill Deaver). All courses require a grade of C or better.

**Honors Option.** A student may receive an Honors Certificate in Latin American Studies if he or she maintains an overall GPA of 2.8 and a GPA of 3.5 in all CLAS courses, and submits a senior honors paper on a Latin American topic to a faculty member in that field. The paper must receive a B+ or better.

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**AFRICAN AMERICAN STUDIES**

Michael Benjamin, Coordinator

**General Information**

The purpose of African American Studies is to allow students of any ethnic background to recognize and understand the important role African Americans have played in defining and developing American society, to address the implications of being “black” in America, and to experience the artistic endeavors put forth by those of African descent. Its interdisciplinary focus explores areas such as history, literature, politics, religion, the arts, and education, as they relate to the African American experience.

**African American Studies Minor**

African American Studies ............................................................................................. 15 hours

AFAS 2000 Introduction to African American Studies
Must include 9 hours of course work numbered 3000 or above with no more than 6 hours from a single discipline and at least 6 hours from each of the following areas of concentration:

**Humanities:** AFAS 4000, AFAS 5000U, ENGL 2050, ENGL 3350, ENGL 5355U, ENGL 5350U, HIST 2100, HIST 3150, HIST 3160, HIST 3900, HIST 3910, HIST 5200U, HIST 5650U, MUSC 2010

**Social Sciences:** AFAS 4000, AFAS 5000U, CSDS 4050, POLS 3980, POLS 5430U, POLS 5510U, POLS 5560U, PUBH 5570U, SOCI 3200

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**CYBER SECURITY**

**General Information**

The impact of ubiquitous computing and the Internet calls for rapid changes in computer systems and the criminal justice system at all levels. From threats to national security to banking fraud to simple fraudulent schemes for the unassuming, the “cybersphere” has become the place where crime is committed and must therefore be detected and handled accordingly.

**Cyber Security Minor**

**Cyber Security** ................................................................................................................ 18 hours

- CSCI 2070, ITEC 3700, ITEC 4200, ITEC 4300
- One course selected from: ITEC 1310, CSCI 1301
- One course selected from: CRJU 3300, CRJU 3500, CRJU 3600, CRJU 5500U

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**ENVIRONMENTAL STUDIES**

Teresa Winterhalter, Coordinator

**General Information**

The minor in environmental studies is designed for students who have an interest in learning more about the natural environment and the ecology of the planet, as well as understanding political, historical, economic, and cultural issues concerning the environment. By requiring courses in both the sciences and the non-sciences, the minor offers an interdisciplinary perspective that will complement a wide range of majors.

**Environmental Studies Minor**

**Environmental Studies** .................................................................................................. 15 hours

- Nine credits must be 3000 level or above. At least nine credits must be from a discipline other than your major.
- Select at least two science courses from this list (cannot be used to fulfill Core Area D requirements):
  - BIOL 1103 (and Lab), BIOL 1107/1107L, BIOL 1108 (and Lab), BIOL 1120, BIOL 1140, BIOL 3050 (and Lab), BIOL 3100, BIOL 3250, BIOL 3470, BIOL 3600 (and Lab), BIOL 4550 (and Lab), BIOL 4970 (and Lab), CHEM 1211/1211L, CHEM 1212/1212L, CHEM 220, CHEM 4100, 4200, 4300, 4600 (topics as appropriate), GEOL 2010, OCEA 3100, SCIE 1212/1212L
- Select at least two non-science courses from this list:
  - ARTS 3680, ECON 3450, ENGL 5280U, ENST 4000, GEOG 5530U, HIST 5580U, HSCC 3760, PHIL 3200, POLS/LWSO 4190, POLS 5530U
LEADERSHIP STUDIES
Teresa Winterhalter, Coordinator

General Information
This interdisciplinary minor fosters the abilities and essential values necessary to produce effective leaders.

Leadership Studies Minor
Leadership Studies ................................................................. 17 hours
LEAD 1001, PHIL 2030, COMM 2280, PSYC 5300U
Six semester hours from: COMM 3050, ENGL 3720, GNST 5550U, HSCA 4620, PHIL 3200, POLS 5535U, PSYC 3200, PSYC 5150U

NEUROSCIENCE
Mirari Elcoro, Coordinator

General Information
The minor in neuroscience is designed for students who have an interest in learning more about how biological, physiological, psychological, and behavioral processes intersect to impact disease and its treatment in human and non-human animal species. Neuroscience also focuses on “normal” processes, including sleep, language acquisition, learning, and memory.

A minor in neuroscience augments the education students would receive in biology, psychology, rehabilitation sciences, communicative disorders and sciences, and pre-professional (pre-medicine, pre-pharmacy, etc.).

Prerequisites from the Core:
BIOL 1107/1107L or BIOL 1107H/1107A Principles of Biology I
PSYC 1101 or PSYC 1101H Introduction to Psychology

Neuroscience Minor
Neuroscience ................................................................. 15-16 hours
One course selected from: BIOL 2081, BIOL 4200, BIOL 4210
One course selected from: BIOL 4230, PSYC 3070, PSYC 3090, PSYC 3500
One course selected from: RHAB 4100, RHAB 4111
One course selected from: BIOL 4230, PSYC 3070, PSYC 3090, PSYC 3500, RHAB 4100, RHAB 4111
One course selected from: PSYC 5020U, RHAB 4900

RELIGIOUS STUDIES
Erik Nordenhaug, Coordinator

General Information
Religion plays an indisputable role in history, society, politics, philosophy, art, and literature. Accordingly, the systematic study of the role and nature of religion, as well as specific religions, provides crucial insight into all of these areas.

A minor in Religious Studies helps students to pursue successfully their majors in history, sociology, art and music history, literature, political science, and liberal studies; as well as prepare them for graduate work in those fields.
Religious Studies Minor

Religious Studies ........................................................... 18 hours

RELI 2100 World Religions
5 courses from the following: ANTH 4000, ENGL 3141, ENGL 3150, ENGL 5215U, ENGL 5440U, ENGL 5480U, ENGL 5485U, HIST 3225, HIST 3440, HIST 5450U, PHIL 3120, PHIL 3330, POLS 4300, SOCI/POLS 5450U, RELI 4000, or other special topics courses as approved by coordinator

TOURISM STUDIES

Teresa Winterhalter, Coordinator

General Information

The minor in Tourism is an interdisciplinary program designed to prepare students with the skills and knowledge to serve as leaders in the tourism industry. It provides a comprehensive academic foundation for all students, both experienced professionals and those new to the field. Students completing this minor will be able to enhance their career opportunities and their communities through an understanding of the local, regional, and global implications of tourism.

Tourism Studies Minor

Tourism Studies ........................................................... 15 hours

SOCI 3700 Sociology of Tourism or GEOG 5860U Tourism Geographies
12 credits* to be selected from the following, with at least nine hours from two disciplines other than the student’s major: ANTH 4020, BIOL 3470, COMM 3060, ENGL 3720, ENGL 5700U, FREN 3040, HIST 5810U, HIST 5830U, HIST 5850U, HIST 5870U, JOUR 3460, SPAN 4130
*Other courses may be substituted by program coordinator as topics are deemed appropriate.
Special Programs

LEARNING SUPPORT COURSES

Learning support is a generic term for programs designed to prepare students for, or assist students with, collegiate work. Armstrong is committed to helping all students succeed by providing the necessary assistance to reach a level of preparation suitable for university studies. Year-long foundations level learning support courses (pre-college preparatory courses) and co-requisite learning support courses assist students needing help preparing for collegiate level work. Learning Support courses are offered in the basic academic areas of, English, and mathematics.

Eligibility for Learning Support courses is determined by the English Placement Index (EPI) or the Math Placement Index (MPI) score(s) which is calculated from a combination of SAT or ACT scores, high school grade point average and/or COMPASS placement exam score. A student may be required to enroll in one or two Learning Support courses based on the EPI or MPI and the students major (non-science/math pathway or science/math pathway). Students required to take Learning Support courses must do so during their first semester. Learning Support courses carry institutional credit, but hours earned in those courses do not apply to degree requirements. Students enrolled in foundations level learning support courses will not be permitted to take credit courses which require the content or skills of the foundations level course as a prerequisite.

Learning Support Completion Requirements

Students who have accumulated 30 hours of college level credit (including transfer course work) and have not completed their learning support requirements (i.e. passed the Core A English or Mathematics course) may only enroll in foundation level learning support courses or learning support courses and co-requisite Core A English and Mathematics courses until the requirements (i.e. successful completion of Core A English or Math) are completed.

Policy for dropping Learning Support courses:

Students will not be permitted to withdraw from learning support co-requisite courses without withdrawing from the associated co-requisite core course.

Learning Support Suspension Policy

• Students enrolled in MATH 0987 or MATH 0989 must complete those requirements in 2 attempts or they will be suspended from Armstrong for one-calendar year. These attempts must be during the students first two semesters at Armstrong. During suspension, students may attend an accredited Technical College System of Georgia School to pass their learning support requirements (Core A Math). W and WM grades do not count toward attempts.
• Students who have been away from Armstrong for a year on learning support suspension may transfer in the appropriate Core A math course, re-enroll in foundations level mathematics courses (MATH 0987 or 0989) or retake the COMPASS exam and score high enough to exempt foundation level learning support.
• For further information, please contact the Office of Academic Orientation and Advisement.

Learning Support Grade Symbols

A%, B%, C%  (passed course work, MATH 0987 and 0989 only)
F %  (failed course work, MATH 0987 and 0989 only and must re-enroll in the course)
W%  (Withdraw, no penalty)
WF%  (Withdraw, failing)
I% (Incomplete)
S% (Satisfactory - Student who successfully passed MATH 1001 or MATH 1111 or ENGL 1101/1102 will receive a grade of S% in MATH 0997, MATH 0999 or ENGL 0999
U% (Unsatisfactory - Student who did not successfully pass MATH 1001 or MATH 1111 or ENGL 1101 will receive a grade of U% in MATH 0997, MATH 0999 or ENGL 0999. Student must repeat the learning support class and the MATH 1001, 1111 or ENGL 1101/1102 course.
NR% (Grade Not Reported)
(Note: D grades are not issued in Learning Support)

Students who EPI or MPI scores that exceed the scores for learning support placement may nonetheless elect to enroll in Learning Support courses. Typically this is done to sharpen essential skills before they are needed in other courses.

More information regarding academic support for nontraditional students, Learning Support courses, registration, readmission, and policies regarding progression requirements is available in the Office of Academic Orientation and Advisement, Solms 212.

MILITARY SCIENCE (Army ROTC)

Faculty
Lieutenant Colonel Larry R. Moore – Department Head
SFC Eric Crow – Sr. Enlisted Instructor

General Information

The Army Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC) Instructor Group, staffed by Army personnel. The department provides a curriculum available to Armstrong State University, Savannah College of Art and Design, and Savannah State University students that qualifies the college graduate for a commission as an officer in the U.S. Army, U.S. Army Reserve, or the Army National Guard. Qualifying for a commission adds an extra dimension to the student’s employment capability in that, upon graduation from the university, the student has either military or civilian employment options. Enrollment in military science classes is open to all students.

The course of study offered in military science is designed not only to prepare the student for service as a commissioned officer in the U.S. Army but also to provide knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the U.S. Army in national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advanced military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the Leadership Development and Assessment Course (LDAC) are commissioned second lieutenants in the branch of service most appropriate to their interests and academic achievements, consistent with the needs of the Army. Regardless of the branch selected, all officers will receive valuable experience in management, logistics, and administration. Graduates may be granted a delay in reporting for duty for graduate study, if requested.

Basic Military Science
Basic military science courses involve four semesters during the freshman and sophomore years. The student learns leadership and management and acquires essential background knowledge of customs and traditions, weapons, map reading, tactics, and survival. Equally important, these courses have the objective of developing self-discipline, integrity, and sense of responsibility. MILS 1101, MILS 1102, MILS 2201, MILS 2202.

Advanced Military Science

The general objective of this course of instruction is to produce junior officers who by education, training, attitude, and inherent qualities are suitable for continued development as army officers. There are two avenues available for entering the advanced program and obtaining a commission as a second lieutenant:

- satisfactory completion of, or placement credit for, the basic program at Armstrong or at any other school, college, or university offering basic ROTC and meeting the entrance and retention requirements established by the Army;
- to be an active duty veteran or junior ROTC cadet graduate eligible for placement credit. MILS 3301, MILS 3302, MILS 4401, MILS 4402.

Placement

Veterans entering the military science programs will receive appropriate placement credit for their active military service. Students who have completed military science courses in military preparatory schools or junior colleges may be given appropriate credit. Students with at least four years of high school ROTC may also be granted placement credit. Placement credit or four semesters of basic military science, or the equivalent thereof, is a prerequisite to admission into the advanced program. Regardless of prior military service, all students must be academically aligned (i.e., freshmen must take freshman level military science courses, etc.).

Alternate Programs for Admittance

Students with two years of coursework remaining, but who have not completed basic military science, are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete the Leadership Training Course (LTC, MILS 2250) of five weeks duration prior to entering the advanced program. Students attending the LTC at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return. Attendance at basic camp is voluntary and incurs no military obligation until the student returns and decides to sign a contract to pursue a commission.

Participating Students and Aliens

Participating students are students who participate in military science courses but are not fully enrolled or are ineligible for enrollment in the ROTC programs. Participating and alien students may enroll in the military science classes provided they meet the requirements outlined in army regulations and are approved by the department head and/or school authorities. Although these students may enroll in military science classes, they may only participate in classroom instructions. They will not participate in any high risk training, drill, marching, leadership laboratories, field training exercises, voluntary programs, or attend basic or advanced camp. These students will also not be issued the uniform, nor receive credit toward commissioning or enlisted grade status through completion of ROTC courses.

Leadership Development and Assessment Course (LDAC)
Students contracting to pursue the advanced courses are required to attend the national camp, normally between their junior and senior academic years at Fort Lewis, Washington. The duration of the camp is 29 days. MILS 3350.

Financial Assistance

- Two-, three-, and four-year campus-based scholarship that pays for tuition and fees or room and board.
- Yearly book allowance of $1,200 for scholarship winners.
- Monthly stipend for all contracted students:
  - $300 – Freshmen
  - $350 – Sophomores
  - $450 – Juniors
  - $500 – Seniors

Scholarships

Each year the U.S. Army awards two- and three-year scholarships to outstanding young men and women participating in the Army ROTC program who desire careers as army officers. The army pays tuition, fees, books and laboratory expenses incurred by the scholarship student. In addition, each student receives from $300 to $400 per month for the academic year. The Savannah Volunteer Guards have established a full-tuition scholarship for qualified incoming freshmen enrolled in ROTC classes. No military obligation is incurred. The scholarship is for one year, with a possibility of renewal for the next school year. Individuals desiring to compete for these scholarships should apply to the Military Science Department.

Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books, and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before commissioning or upon disenrollment from the ROTC program.

MILS Courses

The basic course of four semester duration consists of two hours of instruction work per week. Students acquire knowledge of military leadership, weapons, tactics, basic military skills, and physical fitness. In field training exercises, potential for leadership is progressively developed. Basic course students are invited and encouraged to attend military science leadership laboratories and physical training sessions.

The advanced course consists of three hours of classroom work and one hour of leadership laboratory per week. During the spring semester prior to LDAC the student will enroll in MILS 3302 to prepare for attendance at LDAC. MILS 2001 – The Evolution of Military Warfare is normally taken spring semester of the sophomore year. The coursework during the advanced course emphasizes techniques, management, leadership, and the fundamentals and dynamics of the military team. Field training exercises provide the student with applied leadership experiences. Participation in leadership laboratories and physical training sessions are mandatory.

Professional Military Education (PME) Requirements

The army’s professional military education requirements are established to provide cadets with the training and enrichment necessary to successfully compete in the army. In addition to completing a baccalaureate degree, the cadet must complete one undergraduate course from each of the designated fields of study (some of these requirements may be waived for nursing majors). The PME designated fields of study are listed below and the courses that meet the cadet command PME requirement:

- Written Communications Skills: ENGL 1101, ENGL 1102
- Military History: MILS 2001, HIST 3570
• Computer Literacy: CSCI 1301, CSCI 1302

Minor

The department offers a minor in military science. The program is designed to prepare the student for a commission in the U.S. Army and is offered to, but not required of, those students participating in the advanced course of Army ROTC instruction. Whatever the major, a military science minor will strengthen a student’s management, leadership, and interpersonal communication skills. The minor requires:

Twenty credit hours with grades of S, C or better in any of the following military science courses: MILS 1101, MILS 1102, MILS 2001, MILS 2201, MILS 2202, MILS 2250, MILS 3301, MILS 3302, MILS 3350, MILS 4401, MILS 4402.

NAVAL SCIENCE (Naval ROTC)

Faculty
Captain Clark T. Price, USN, Department Head
Commander Daniel B. Rader, USN

General Information

Naval Reserve Officer Training Corps (NROTC) prepares students for commissioned service as regular or reserve officers in the Navy and Marine Corps. Students enrolled in the NROTC program take additional course work which grants them specialized knowledge and skills in a very specific area covering all aspects of Naval operations. Students with successful completion of 15 hours of specified coursework should be granted a Minor in Naval Science.

Advanced Program – Navy Option:
NSCI 2101, 3003, 3004, 4001 ................................................................. 12 hours

Advanced Program – Marine Corps Option:
NSCI 3101, 4102 ................................................................................ 6 hours

Additional and Substitute Requirements (Required of all Midshipmen):
NSCI 1001, 1002, 2102, 4104 ................................................................. 12 hours
NSCI 4050, Naval Drill (0-2-0), is required each academic term of all midshipmen.
NSCI 1003 and 4050 satisfy the university physical education requirement.

Naval Science Minor Requirements
Two specific tracks of course work fulfill minor requirements:
NSCI 1002, 2101, 3003, 3004, 4001 ........................................................... 15 hours
or
NSCI 1001, 1002, 3101, 4102, 4001 ........................................................... 15 hours

Navy Scholarship Midshipmen (additional requirements):
One year of calculus (completed before the junior year) .............................. 6 hours
One year of calculus-based physics (completed before senior year) .......... 6 hours
Computer science ................................................................................. 3 hours
Military history and political science ..................................................... 6 hours
(Specific courses that satisfy the above requirement will be promulgated by the professor of naval science.)
Course Index and Descriptions

Numbering System for Courses
In the course listings that follow, there appear three numbers in parentheses after each course title. The first number listed indicates the number of hours of lecture; the second number listed indicates the number of hours of laboratory (including field placements); the third number listed indicates the number of semester hours of credit carried by the course. The letter V represents a variable number of hours.

Courses numbered 0000-0199 carry institutional credit only and may not be applied to a degree program.

Courses numbered 1000-1999 are generally planned for the freshman year; courses numbered 2000-2999 for the sophomore year; courses numbered 3000-3999 for the junior year; and courses numbered 4000-4999 for the senior year.

Courses numbered 5000U-5999U are graduate courses with dual enrollment by undergraduate and graduate students. Permission is not required for undergraduate students.

Courses numbered 6000-6999 are graduate courses. Undergraduate students may not enroll except for those who have applied and been approved for Senior Privilege.

Courses numbered 7000-9999 are graduate courses. Undergraduate students may not enroll.

Lettering System for Courses
Throughout the catalog, four capital letters followed by four numbers are used to designate individual courses. Following is a list of the prefixes (abbreviations) used, as well as an index for quick page location of courses in specific subject areas.

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<td>SMED</td>
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<td>THEA</td>
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<td>WBIT</td>
<td>Georgia WebBSIT</td>
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</table>
AASU – University Studies

AASU 1100 THE UNIVERSITY EXPERIENCE 1-0-1
Preparation for first-year students to become active, effective participants in the Armstrong experience. Topics include an introduction to campus resources and support services, familiarization with the career planning and major choice processes, an overview of campus policies and procedures, and an introduction to campus technologies. Credit granted for either AASU 1101 or 1100.

AASU 1101 STRATEGIES FOR SUCCESS 2-0-2
Skills, information, and guidance useful for success in college while focusing on the purposes of higher education, the roles of the student, and the resources available within the university for academic success and career choices. Credit granted for either AASU 1100 or 1101.

ACCT – Accounting

ACCT 2101 PRINCIPLES OF FINANCIAL ACCOUNTING 3-0-3
Prerequisite: Eligibility for MATH 1111
The theory and application of accounting concepts for reporting financial information to outside users. The course stresses the relationship between the rules by which financial statements are prepared and the use of financial statement information for decision making.

ACCT 2102 PRINCIPLES OF MANAGERIAL ACCOUNTING 3-0-3
Prerequisite: ACCT 2101
The theory and application of managerial accounting concepts. The course stresses the use of accounting information for decision making and the role of managerial accounting in a business environment.

AFAS – African American Studies

AFAS 2000 INTRODUCTION TO AFRICAN AMERICAN STUDIES 3-0-3
Prerequisite: ENGL 1101
Interdisciplinary introduction to African American studies from a social science perspective.

AFAS 4000 INDEPENDENT STUDY IN AFRICAN AMERICAN STUDIES 3-0-3
Prerequisite: AFAS 2000 and the permission of the Coordinator of African American Studies or instructor
An in-depth, closely supervised, instructor-approved study in the interdisciplinary areas associated with the African American Studies minor on a topic with African American emphasis.

AFAS 5000U TOPICS IN AFRICAN AMERICAN STUDIES 3-0-3
Prerequisite: AFAS 2000 and the permission of the Coordinator of African American Studies.
Special topics in African American Studies. Will be offered in conjunction with selected upper-level courses in the university curriculum when content of those courses addresses issues related to African American Studies.

ANTH – Anthropology

ANTH 1102 INTRODUCTION TO ANTHROPOLOGY 3-0-3
Introduction to the biocultural nature of humans through a survey of the subdisciplines of anthropology within an ecological and evolutionary framework.

ANTH 1150 GLOBAL PERSPECTIVES IN ANTHROPOLOGY: PEOPLES OF THE WORLD 3-0-3
Peoples of the world from a cultural anthropological perspective with an emphasis on contemporary issues and problems.

ANTH 3020 HUMAN EVOLUTION 3-0-3
Prerequisite: ANTH 1102
Biological anthropology through the principles of evolution and genetics, evolutionary forces, human variation and adaptation, primate evolution and behavior, the fossil record of human ancestors and early modern humans, and the relationship between human biology and culture.
ANTH 3050 NORTH AMERICAN INDIANS 3-0-3
Prerequisite: ANTH 1102
Prehistoric, historic, and contemporary Native American populations north of Mexico, with an emphasis on the role of the environment in the diversity and complexity of Native American cultures.

ANTH 3080 PRIMATE SOCIAL BEHAVIOR AND ECOLOGY 3-0-3
Prerequisite: permission of instructor or ANTH 1102
Social behavior and ecology of prosimians, monkeys, and apes and the implications for the evolution of human social behavior. Topics include primate origins and evolutionary trends, survey of living primates, social organization, ecology and social behavior, and models for the evolution of human behavior.

ANTH 3100 ANTHROPOLOGY OF SEX AND GENDER 3-0-3
Prerequisite: ANTH 1102
Biological determinants of sex differences and the cultural determinants of gender roles, with an emphasis on the cross-cultural relationship between gender roles and the control of resources.

ANTH 3820 INTRODUCTION TO ARCHAEOLOGY 3-0-3
Survey of archaeology using cross-cultural examples. Focus on history, basic techniques, concepts, theories, and types of research.

ANTH 3950 RESEARCH IN THE SOCIAL AND BEHAVIORAL SCIENCES V-V-(1-3)
Prerequisite: permission of instructor or department
Open to juniors or above. Uncompensated research assigned and directed by a faculty member using methods appropriate to the discipline. Evaluation by a rotating committee of the faculty before initiation and upon completion. Up to three hours credit in one discipline, for a maximum of six credit hours.

ANTH 4000 SORCERY, DEMONS, AND GODS 3-0-3
Prerequisite: ANTH 1102
Anthropological analysis of religion and religious beliefs across cultures, including father gods and mother goddesses, sorcery and magic, shamanism, sacrifice, and totemism.

ANTH 4010 FIELD METHODS IN ARCHAEOLOGY AND FORENSICS 3-0-3
Prerequisite: ANTH 1102
Archaeological and forensic field methods, including excavation strategies, sampling, mapping, bioarchaeological and forensic recovery, recording techniques, and legal responsibilities.

ANTH 4020 ARCHAEOLOGY OF THE SOUTHEAST 3-0-3
Prerequisite: ANTH 1102
An exploration of the prehistory and history of the Southeastern United States through the lens of archaeology.

ANTH 4050 SOCIOBIOLOGY OF HUMAN BEHAVIOR 3-0-3
Prerequisite: ANTH 1102
Examination of human social behavior from a biological anthropological perspective, including topics such as altruism and kinship, human mating strategies, reproduction and parenting, ecology of social systems, and life history strategies.

ANTH 4401, -02, -03 SPECIAL TOPICS IN ANTHROPOLOGY 3-0-3
Prerequisite: ANTH 1102
Upper-level courses not otherwise offered in the anthropology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor.

ARTS – Art

ARTS 1010 DRAWING I 1-4-3
Introduction to the techniques, materials and principles of drawing.

ARTS 1011 DRAWING II
Prerequisite: ARTS 1010 1-4-3
Techniques, materials and principles of drawing.
<table>
<thead>
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<th>Course Title</th>
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<td>ARTS 1030</td>
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<td>ARTS 1100</td>
<td>ART APPRECIATION</td>
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<tr>
<td>ARTS 1270</td>
<td>WORLD ART AND MUSIC</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ARTS 2011</td>
<td>PAINTING I</td>
<td>1-4-3</td>
</tr>
<tr>
<td>ARTS 2012</td>
<td>PAINTING II</td>
<td>1-4-3</td>
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<tr>
<td>ARTS 2040</td>
<td>INTRODUCTION TO PHOTOGRAPHY</td>
<td>1-4-3</td>
</tr>
<tr>
<td>ARTS 2110</td>
<td>INTRODUCTION TO GRAPHIC DESIGN</td>
<td>1-4-3</td>
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<tr>
<td>ARTS 2150</td>
<td>THE COMPUTER IN ART</td>
<td>1-4-3</td>
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<tr>
<td>ARTS 2400</td>
<td>INTRODUCTION TO CRAFT</td>
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<tr>
<td>ARTS 2720</td>
<td>ART HISTORY II</td>
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<td>ADVANCED GRAPHIC DESIGN</td>
<td>1-4-3</td>
</tr>
<tr>
<td>ARTS 3130</td>
<td>DRAWING III</td>
<td>1-4-3</td>
</tr>
</tbody>
</table>

**ARTS 1020 TWO-DIMENSIONAL DESIGN**
The fundamentals of two dimensional design introduced through projects in a variety of media.

**ARTS 1030 THREE-DIMENSIONAL DESIGN**
An investigation of three-dimensional forms and space using materials and methods.

**ARTS 1100 ART APPRECIATION**
Artistic theories, styles, media, and techniques as they relate to the visual arts. Not recommended for art majors.

**ARTS 1270 WORLD ART AND MUSIC**
Comparison of traditional art and music from a variety of world cultures. Emphasis on art and music’s role, media and techniques, and the inherent personal expression of various artists and composers. Crosslisted as MUSC 1270.

**ARTS 2011 PAINTING I**
Prerequisite: ARTS 1010 and ARTS 1020
Acrylic painting from observed and secondary sources.

**ARTS 2012 PAINTING II**
Prerequisite: ARTS 2011
Continuation of Painting I with increased emphasis on student selected problems.

**ARTS 2040 INTRODUCTION TO PHOTOGRAPHY**
Black and white photographic aesthetics, processes. Functions of 35mm camera and processing of film and printing.

**ARTS 2110 INTRODUCTION TO GRAPHIC DESIGN**
Fundamentals of visual graphic communication as related to modern advertising techniques. Emphasis on design, layout, typography, and reproduction.

**ARTS 2150 THE COMPUTER IN ART**
Prerequisite: ARTS 1020 or permission of instructor or department
Computer as a tool for making art using its unique output characteristics to produce hardcopy on various printers and for making art using the hardcopy combined with traditional media. Emphasis on image making and image manipulation.

**ARTS 2400 INTRODUCTION TO CRAFT**
Basic craft processes and techniques with emphasis on fibers and metalwork.

**ARTS 2710 ART HISTORY I**
Visual arts from prehistory to 1400.

**ARTS 2720 ART HISTORY II**
Visual arts from 1400 to the present.

**ARTS 3030 OIL PAINTING**
Prerequisite: ARTS 2011
Special qualities and techniques of oil painting.

**ARTS 3040 WATERCOLOR PAINTING**
Prerequisite: ARTS 1010
Exploration of traditional and experimental approaches to transparent watercolor.

**ARTS 3110 ADVANCED GRAPHIC DESIGN**
Prerequisite: ARTS 2110
Advanced techniques in visual idea development as applied to the professional field of graphic design and advertising.

**ARTS 3130 DRAWING III**
Prerequisite: ARTS 1011
Continuation of Drawing II emphasizing complex problems in concept design and media.
ARTS 3140 INTERMEDIATE PHOTOGRAPHY 1-4-3
Prerequisite: ARTS 2040
Advanced study of the aesthetics and processes in black and white photography.

ARTS 3150 COLOR PHOTOGRAPHY 1-4-3
Prerequisite: ARTS 2040
Aesthetics and print processes of color photography.

ARTS 3160 HAND-COLORED AND MANIPULATED SILVER PRINT 1-4-3
Prerequisite: ARTS 2040
Exploration of media and techniques to enhance and alter a silver print. Emphasis on hand applied color and toning.

ARTS 3170 EXPERIMENTATION IN PHOTOGRAPHY 1-4-3
Prerequisite: ARTS 2040
Exploration of experimental techniques, i.e., solarization, mordancage, negative prints, photograms, double exposures, and others. Non-silver processes, cyanotype, van dyke brown and others.

ARTS 3200 ART FOR THE CHILD 2-1-2
Prerequisite: Candidacy in the Department of Early Childhood Education.
The child and his or her development in relation to qualitative art experiences including studio experiences. Emphasis on materials and methods suitable for teaching art at the elementary school level. (May not be used for credit by art education majors.)

ARTS 3210 TYPOGRAPHY 1-4-3
Prerequisite: ARTS 2110
Introduction to typography as it relates to visual communication, analyzing letterforms from a historical perspective, aesthetic value, purpose, and functionality.

ARTS 3220 CORPORATE LOGO AND IDENTITY DESIGN 1-4-3
Prerequisite: ARTS 2110
Designing symbols and text as a means to create a visual identity for companies as it relates to branding.

ARTS 3230 PACKAGING DESIGN 1-4-3
Prerequisite: ARTS 2110
Designing and creating product containers utilizing three-dimensional forms as they relate to graphic design.

ARTS 3240 VISUAL DESIGN ON THE WEB 1-4-3
Prerequisite: ARTS 2110
Introduction to web media, graphics, and web site structure to include best practices for web design. Concepts focusing on basic design, organization, aesthetics, management and development of websites emphasized.

ARTS 3300 CERAMICS I 1-4-3
Fundamentals of wheel thrown pottery, hand building techniques, ceramic sculpture. Emphasis on decoration, form, craftsmanship, creativity. Traditional glazing and firing techniques and exploration into non-traditional methods of coloring and construction.

ARTS 3310 POTTERY TECHNIQUES 1-4-3
Techniques of pottery utilizing the potter’s wheel.

ARTS 3330 CERAMIC SCULPTURE 1-4-3
Prerequisite: ARTS 3300
Emphasis on developing ideas into large scale ceramic sculpture. Individual attention and direction facilitated. Projects may include pottery, the figure, abstractions, wall relief, mixed media constructions.

ARTS 3350 GLAZE EXPERIMENTATION 1-4-3
Prerequisite: ARTS 3300
Raw materials and chemicals used in glazes, glaze formulation, and firing glazes in oxidation, reduction, and raku kilns.
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<td>ARTS 3400 PRINTMAKING I</td>
<td>1-4-3</td>
<td>Basic printmaking processes. Emphasis on relief, intaglio and non-traditional processes, i.e. collagraph, monoprints.</td>
</tr>
<tr>
<td>ARTS 3470 ART MANAGEMENT</td>
<td>3-0-3</td>
<td>Theory and practice in art programming management, including audience analysis and development, publicity, promotions, and marketing tools examined.</td>
</tr>
<tr>
<td>ARTS 3620 JEWELRY/ENAMELING</td>
<td>1-4-3</td>
<td>Design and production of jewelry and enameled objects.</td>
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<tr>
<td>ARTS 3630 FABRIC DESIGN</td>
<td>1-4-3</td>
<td>Application of original designs to fabric with emphasis on batik, tie-dye, direct application, and combined techniques.</td>
</tr>
<tr>
<td>ARTS 3640 WEAVING</td>
<td>1-4-3</td>
<td>Basic weaves, the hand loom, and off the loom weaving techniques.</td>
</tr>
<tr>
<td>ARTS 3660 PAPERMAKING</td>
<td>1-4-3</td>
<td>Hand papermaking with emphasis on the production of both two- and three-dimensional pieces.</td>
</tr>
<tr>
<td>ARTS 3680 ENVIRONMENTAL ART</td>
<td>1-4-3</td>
<td>An interdisciplinary introduction to environmental art, examining the role of art in promoting and maintaining sustainable human societies.</td>
</tr>
<tr>
<td>ARTS 3700 FIGURE SCULPTURE</td>
<td>1-4-3</td>
<td>Basic sculpture ideas, terminology, processes. Emphasis on the human figure using clay and other media.</td>
</tr>
<tr>
<td>ARTS 3710 SCULPTURE MATERIALS</td>
<td>1-4-3</td>
<td>Additive and subtractive sculpture techniques with emphasis on wood construction, carving, and mixed media.</td>
</tr>
<tr>
<td>ARTS 3720 FIBER SCULPTURE</td>
<td>1-4-3</td>
<td>The application of fiber methods to create three-dimensional pieces, using traditional and non-traditional materials.</td>
</tr>
<tr>
<td>ARTS 3760 INTERNSHIP I - PRE-STUDENT TEACHING</td>
<td>0-V-1</td>
<td>Directed practice in the teaching of students in P-12 public school setting.</td>
</tr>
<tr>
<td>ARTS 3810 INTRODUCTION TO DIGITAL PHOTOGRAPH</td>
<td>1-4-3</td>
<td>Digital photography techniques, integration of digital software and hardware with the photography process, and digital print production.</td>
</tr>
<tr>
<td>ARTS 4140 FIGURE DRAWING</td>
<td>1-4-3</td>
<td>The human figure as structure and expressive form in various media.</td>
</tr>
<tr>
<td>ARTS 4720 LEADERSHIP IN THE VISUAL ARTS</td>
<td>1-4-3</td>
<td>Open only to senior art majors. A course in professional practices and in leadership in the visual arts. Course taken in preparation for the senior portfolio review and exhibition.</td>
</tr>
<tr>
<td>ARTS 4740 SENIOR EXHIBITION</td>
<td>0-2-0</td>
<td>Open only to art majors. Senior-level exhibition in a gallery setting. Course taken to satisfy graduation requirements.</td>
</tr>
<tr>
<td>ARTS 4750 B.F.A. PROJECT</td>
<td>0-3-3</td>
<td>The research and development of a cohesive body of work for the B.F.A. Exhibition.</td>
</tr>
</tbody>
</table>
ARTS 4760 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre; completion of all coursework.
Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting. A capstone course.

ARTS 4890 SELECTED STUDIES IN STUDIO ART V-V-(1-4)
Offered on demand to meet special institutional and community needs in studio art. May be repeated for credit.

ARTS 4891 SELECTED STUDIES IN ART HISTORY V-V-(1-4)
Prerequisite: ARTS 2710 or ARTS 2720
Offered on demand to meet special institutional and community needs in art history. May be repeated for credit.

ARTS 4900 DIRECTED INDIVIDUAL STUDY V-V-(1-4)
Prerequisite: permission of instructor
Independent course of study for advanced students in a discipline as mutually agreed to by student and instructor.

ARTS 4910 INTERNSHIP 1-4-3
Prerequisite: permission of instructor or department and 2.5 grade point average
Individually designed off-campus study, work, and/or research project under the joint supervision of an institutional sponsor and a faculty supervisor.

ARTS 4950 SPECIAL PROBLEMS 1-4-3
Prerequisite: nine hours of coursework in a selected studio area
Special problems in visual arts mutually agreed to by student and instructor.

ARTS 5400U ART IN THE ELEMENTARY GRADES 3-1-3
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre or permission of instructor
Planning and implementing art instruction at the elementary level. Overview of materials, methods, classroom management and technology appropriate to children at different developmental levels in the elementary classrooms. Ten hours of practicum work is required.

ARTS 5410U ART IN THE MIDDLE AND SECONDARY GRADES 3-1-3
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre or permission of instructor
Planning and implementing art instruction at the middle and secondary level. Overview of materials, methods, classroom management and technology appropriate for the middle and secondary classroom. Ten hours of practicum work is required.

ARTS 5430U TECHNOLOGY IN ART EDUCATION 1-0-1
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U
Examination, development, and use of technological resources for teaching art in PK-12 classrooms.

ARTS 5450U CURRICULUM AND METHODS IN ART EDUCATION 2-0-2
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U
The planning, implementation, and evaluation of a sequential curriculum for the visual arts in the P-12 teaching environment. Areas of analysis include past and present art programs and art education movements as alternative models for curriculum design; evaluation of innovative school, museum, and other institutional art programs; meaning and method of curriculum improvement; guidelines for curriculum decision making; and evaluation.

ARTS 5560U ISSUES IN AESTHETICS AND ART EDUCATION CRITICISM 3-0-3
Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U
An introduction to basic issues related to the teaching aesthetics, art criticism, and art history to P-12 students. Students will design, implement, and evaluate developmentally appropriate instruction for teaching these issues.

ARTS 5750U CONTEMPORARY ART AND CRITICISM 3-0-3
Prerequisite: ARTS 2720
Exploration of contemporary art historical and critical issues.
ASTR – Astronomy

**ASTR 1010 ASTRONOMY OF THE SOLAR SYSTEM** 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
Astronomy from early ideas of the cosmos to modern observational techniques. Solar system planets, satellites, and minor bodies. Origin and evolution of the solar system.

**ASTR 1020 STELLAR AND GALACTIC ASTRONOMY** 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
The study of the sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, the origin and evolution of the universe.

**ASTR 3000 INTRODUCTION TO THE UNIVERSE** 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
A survey of the universe. Examines the historical origins of astronomy; the motions and physical properties of the sun, moon, and planets; the formation, evolution and death of stars; the structure of galaxies; the expansion of the universe. (Students may not receive credit for ASTR 3000 if they receive credit for ASTR 1010 and ASTR 1020.)

BCHM – Biochemistry

**BCHM 2900 INTRODUCTION TO BIOCHEMICAL RESEARCH** 0-(3-9)-(1-3)
Prerequisite: permission of the department head, declared biochemistry major.
Prerequisite or corequisite: CHEM 1211
Faculty originated biochemical lab-based research project. Written report required.

**BCHM 3301 BIOANALYTICAL CHEMISTRY** 3-0-3
Prerequisite: CHEM 2102 (minimum grade of C) and CHEM 2102L (minimum grade of C) and CHEM 2300 (minimum grade of C)
Prerequisite or corequisite: PHYS 1112K or PHYS 2212K
Modern methods of instrumental analysis with emphasis on solving biological problems.

**BCHM 3403 BIOPHYSICAL CHEMISTRY** 3-0-3
Prerequisite: CHEM 2300 (minimum grade of C) and MATH 1161
Prerequisite or corequisite: PHYS 1112K or PHYS 2212K
The fundamentals of physical chemistry from a biochemical perspective. Topics including gas laws, heat and work, and the laws of thermodynamics, material and reaction equilibrium, standard thermodynamic functions, and reaction kinetics. Cross-listed with PHYS 3403.

**BCHM 3811 INTRODUCTION TO BIOCHEMICAL TECHNIQUES** 0-4-1
Prerequisite: CHEM 2102 (minimum grade of C) & CHEM 2102L (minimum grade of C), CHEM 2300 (minimum grade of C)
Prerequisite or corequisite: CHEM 3801
Experiments designed to introduce and teach standard biochemical techniques. Topics include protein purification (size exclusion, ion-exchange, and affinity chromatography), SDS-PAGE analysis, Michaelis-Menten kinetics, investigating protein-protein interactions. Cross-listed with CHEM 3803.

**BCHM 3812 ADVANCED BIOCHEMISTRY LABORATORY** 0-4-1
Prerequisite: BCHM 3811 (minimum grade of C)
Prerequisite or corequisite: CHEM 3802
Experiments that utilize and teach advanced biochemical techniques to support the instruction of CHEM 3801 and 3802. Experiments further emphasize the techniques used in BCHM 3811 and introduce recombinant DNA technologies.

**BCHM 3900 BIOCHEMICAL RESEARCH** 0-(3-9)-(1-3)
Prerequisite: permission of department head, declared biochemistry major.
Prerequisite or corequisite: CHEM 2102
Faculty originated biochemical lab-based research project. Scientific paper required.
BCHM 4501 BIOCHEMISTRY SEMINAR 2-0-2
Prerequisite or corequisite: CHEM 3802 (minimum grade of C)
Use of biochemical journals, references, and electronic information sources. Includes a variety of oral and written assignments. Department faculty involved in assessments.

BCHM 4700 ADVANCED TOPICS IN BIOCHEMISTRY 2-0-2
Prerequisite: CHEM 3801 and instructor/Department Head permission
Topics include advanced areas of study in biological chemistry and may include biocatalysis, bioinorganic chemistry, computational biochemistry, protein structure and design as well as others. Course may be repeated as topics vary.

BCHM 4811 BIOINSTRUMENTAL LABORATORY 0-4-1
Prerequisite or corequisite: BCHM 3301 and BCHM 3403
An advanced laboratory course for biochemistry majors. The course applies spectrochemical techniques to biological problems to determine structure, function, thermodynamic and kinetic properties of biomolecules.

BCHM 4991 ADVANCED BIOCHEMICAL RESEARCH 0-(3-9)-(1-3)
Prerequisite: permission of department head, declared biochemistry major and CHEM 3801 and BCHM 3811
Prerequisite or corequisite: BCHM 4501
Faculty-originated biochemical lab-based research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.

BIOL – Biology

BIOL 1103 CONCEPTS OF BIOLOGY 3-4-3
Prerequisite: Eligible for ENGL 1101
May include topics such as evolution, ecology and the environment, genetics and heredity, diversity of life, cells and cellular energy, biomolecules, and the scientific process. (Credit in this non-majors course may not be applied to the Area F requirement in biology. Course not intended for science majors or clinical health majors).

BIOL 1107 PRINCIPLES OF BIOLOGY I 3-0-3
Prerequisite: Eligibility for ENGL 1101
Prerequisite or corequisite: BIOL 1107L and either MATH 1111 or MATH 1001 or Eligibility for MATH 1113
Elements of chemistry; cell structure and function; DNA and protein synthesis; Mendelian and human genetics;; bioenergetics.

BIOL 1107A HONORS PRINCIPLES OF BIOLOGY I LAB 0-3-1
Prerequisite: Eligibility for ENGL 1101
Prerequisite or corequisite: BIOL 1107H and either MATH 1111 or MATH 1001 or Eligibility for MATH 1113
Introduction to biotechnology and the scientific process in hands-on laboratory research

BIOL 1107H HONORS PRINCIPLES OF BIOLOGY I 3-0-3
Prerequisite or corequisite: BIOL 1107A and either MATH 1111 or MATH 1001 or Eligibility for MATH 1113
A more in-depth treatment of topics covered in BIOL 1107. In addition to normal lecture format, students will participate in group discussions, book reviews and debates on recent important discoveries and issues in biology.

BIOL 1107L PRINCIPLES OF BIOLOGY I LAB 0-3-1
Prerequisite: Eligibility for ENGL 1101
Prerequisite or corequisite: BIOL 1107 and either MATH 1111 or MATH 1001 or Eligibility for MATH 1113
Introduction to biotechnology and the scientific process in hands-on laboratory research

BIOL 1108 PRINCIPLES OF BIOLOGY II 3-3-4
Prerequisite: Either BIOL 1107 (minimum grade of C) and BIOL 1107L (minimum grade of C) or BIOL 1107H (minimum grade of C) and BIOL 1107A (minimum grade of C).
Diversity of life; evolutionary biology; principles of ecology; experimental design and data analysis.
BIOL 1108H HONORS PRINCIPLES OF BIOLOGY II 3-3-4
Prerequisite: BIOL 1107 (minimum grade of C) or BIOL 1107H (minimum grade of C) and admission to the honors program, or permission of instructor.
A more in-depth treatment of topics covered in BIOL 1108. In addition to normal lecture format, students will participate in group discussions and debates on recent important discoveries and issues in biology. Lab content will be similar to BIOL 1108, but will also include problem-solving activities and fieldwork.

BIOL 1120 DIVERSITY OF LIFE 3-0-3
Prerequisite: eligibility for ENGL 1101
Survey of the kingdoms of life, including monera, protista, fungi, plantae, animalia, and sub-life groups such as viruses. (Credit may not be applied toward a major in biology.)

BIOL 1130 HUMAN BIOLOGY 3-0-3
Prerequisite: eligibility for ENGL 1101
Structure and function of human organ systems, human heredity, evolution, and ecology. (Credit may not be applied toward a major in biology.)

BIOL 1140 ENVIRONMENTAL BIOLOGY 3-0-3
Prerequisite: eligibility for ENGL 1101
Relationship of humans to their environment with consideration of natural cycles and balances, populations, energy, air and water pollution, solid waste issues and environmental regulation and legislation. (Credit may not be applied toward a major in biology.)

BIOL 2010 MICROBIOLOGY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C), and both CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C).
Genetics, classifications and methods of control of bacteria, fungi, protozoa and viruses, with introduction to medical, industrial and environmental microbiology (Not intended for pre-health professions students).

BIOL 2020 PLANT BIOLOGY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Evolution and diversity of plants, including comparative morphology, anatomy, physiology, growth and development, and reproduction. Plants will be examined at the cellular, organismal, and community levels. Laboratories may include field trips.

BIOL 2081 HUMAN ANATOMY AND PHYSIOLOGY I 3-3-4
Prerequisite: Either BIOL 1107 (minimum grade of C) and BIOL 1107L (minimum grade of C) or BIOL 1107H (minimum grade of C) and BIOL 1107A (minimum grade of C) or a minimum grade of C in either CHEM 1151, CHEM 1211&1211L, or CHEM 1010.
Gross anatomy, histology and physiology of human organ systems. (Non-majors course intended for health professions students.)

BIOL 2082 HUMAN ANATOMY AND PHYSIOLOGY II 3-3-4
Prerequisite: BIOL 2081 (minimum grade of C)
A continuation of BIOL 2081. Anatomy, histology, and physiology of human organ systems. (Non-majors course intended for health professions students.)

BIOL 2275 MICROORGANISMS AND DISEASE 3-3-4
Prerequisite: BIOL 2082 (minimum grade of C)
Morphology, genetics, physiology, and public health importance of microorganisms with emphasis on bacterial pathogens. (Non-majors course intended for health professions students)

BIOL 2400 INTRODUCTION TO CELL AND MOLECULAR BIOLOGY 3-0-3
Prerequisite: Both BIOL 1107 (minimum grade of C) and BIOL 1107L (minimum grade of C) and BIOL 1107H (minimum grade of C) and BIOL 1107A (minimum grade of C), and both CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C).
An introduction to cell structure and biochemistry. Topics may include gene regulation; bioenergetics; catalysis; cellular metabolism; cell evolution; genetic engineering; protein synthesis, structure and function.
BIOL 3000 CELL BIOLOGY 3-0-3
Prerequisite: BIOL 2400 (minimum grade of C)
Prerequisite or corequisite: CHEM 1211 and CHEM 1211L
Structure and evolution of prokaryotic and eukaryotic cells. Topics may include protein structure and function, membranes, cellular respiration, photosynthesis, cell trafficking, endocytosis, cell cycle and cell signaling.

BIOL 3020 VERTEBRATE ZOOLOGY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or 1108H (minimum grade of C)
Origin, evolution, diversity, and biology of vertebrate animals. Laboratories emphasize vertebrate structure and function.

BIOL 3030 EVOLUTION 3-0-3
Prerequisite: BIOL 1108 or BIOL 1108H (minimum grade of C)
Students will analyze the fundamental and unifying theme of evolution in biology through: mechanisms of evolution, selection, genetic variation, and speciation; fossil record and natural history of organisms; interconnectedness of ecology and evolution.

BIOL 3050 GENERAL ECOLOGY 3-0-3
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C) and BIOL 2010 (minimum grade of C)
Introduction to behavioral, individual, population, community, and ecosystem ecology.

BIOL 3050L GENERAL ECOLOGY LABORATORY 0-4-1
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C) and BIOL 2010 (minimum grade of C)
Prerequisite or corequisite: BIOL 3050
Field and laboratory activities cover ecological principles and emphasize sampling procedures and data analysis.

BIOL 3100 MAN AND THE ENVIRONMENT 3-0-3
Prerequisite: BIOL 1107 or BIOL 1107H
Interactions between humans and the support systems of the earth which are essential to their existence. Cannot be used as a biology major elective.

BIOL 3111 RESEARCH METHODS SEMINAR 1-0-1
Prerequisite or corequisite: BIOL 1107 (minimum grade of C) and BIOL 1107L (minimum grade of C) or BIOL 1107H (minimum grade of C) and BIOL 1107A (minimum grade of C)
Students read and discuss scientific literature in advance of professional seminar presentations, attend and participate in seminar presentations, and write reflective summaries. Students practice reading scientific literature, discuss commonly employed methods of data analysis, and experience the dissemination of science through seminar presentations. The course may be repeated up to two times for additional credit.

BIOL 3150 HORTICULTURE 3-2-4
Prerequisite BIOL 2020 (minimum grade of C)
Basic gardening principles with emphasis on plant growth and development as responses to environmental conditions; plant classification, growth and development, environment, propagation, disease, pest control.

BIOL 3200 PLANT TAXONOMY 3-4-4
Prerequisite: BIOL 2020 (minimum grade of C)

BIOL 3250 LIMNOLOGY 3-0-3
Prerequisite: CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C), BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C), and BIOL 2010 (minimum grade of C)
Study of the physical, chemical, and biological aspects of freshwaters and the interrelationships of all three domains of life involved in nutrient and energy cycling in these ecosystems.
BIOL 3300 ENTOMOLOGY 3-4-4
Prerequisite BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Insects, their collection, identification, anatomy, physiology, development, specialization, ecology, behavior, and their relationships to plants, humans, and other animals.

BIOL 3310 INVERTEBRATE ZOOLOGY 3-3-4
Prerequisite BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Structure, body functions, interrelations, and natural history of invertebrate groups.

BIOL 3470 ENVIRONMENTAL RESTORATION 3-0-3
Prerequisite: CHEM 1212/1212L and either BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Covers current federal and Georgia environmental laws and regulations, coastal ecological concepts, and techniques used for remediation of environmental degradation.

BIOL 3500 TOPICS IN THE LIFE SCIENCES FOR EDUCATORS 3-0-3
Prerequisite: admission to the College of Education and two courses in science, including one lab course. Open only to students in middle grades science track.
A survey of life sciences including topics such as biochemistry, cellular structure and function, DNA and protein synthesis, genetics and evolution, animal structure and function, the kingdoms of life, and principles of ecology.

BIOL 3520 MEDICAL MICROBIOLOGY 3-0-3
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 2400 (minimum grade of C) and CHEM 1211 and CHEM 1211L
Disease causing microbes, their diagnosis, pathogenesis, and epidemiology.

BIOL 3600 SALT MARSH ECOLOGY 3-3-4
Prerequisite BIOL 2020 (minimum grade of C)
Covers the abiotic and biotic factors of salt marshes. Topics may cover algal blooms, plant dormancy, marsh die-off, contaminant and pollutant impacts, habitat loss, and marsh conservation.

BIOL 3700 GENETICS 3-3-4
Prerequisite: BIOL 2400 (minimum grade of C)
Molecular genetics, with emphasis on regulation of gene expression, genomics, genome structure and function, and modern technological advances in genetics. Topics discussed will include Mendelian, molecular, population, and evolutionary genetics. Laboratory emphasis will be on molecular genetic techniques, genetic research design, and data analysis.

BIOL 3750 NATURAL HISTORY OF VERTEBRATE ANIMALS 3-4-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Life history and functional biology of major vertebrate groups. Emphasis on behavioral, reproductive and feeding adaptations using case studies. Labs focus on field identification of native species.

BIOL 3770 COMPARATIVE VERTEBRATE ANATOMY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Form, function, and evolution of major vertebrate systems. Laboratories examine the anatomy of different vertebrate taxa.

BIOL 3800 MYCOLOGY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
The course will cover evolution, taxonomy, reproduction, ecology, and modern uses of fungi and fungal-like organisms. Laboratories may include field trips for local collections.

BIOL 3920 PARASITOLOGY 3-4-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Comparative study of the internal and external parasites of humans and other animals.
BIOL 3950 HUMAN EMBRYOLOGY 3-0-3
Prerequisite: BIOL 2081 (minimum grade of C) or BIOL 4210 (minimum grade of C) or BIOL 4200 (minimum grade of C) or by permission of instructor
Topics will include development of the male and female reproductive systems and gamete formation, the process of fertilization, implantation, and the formation of the placenta. Development of the germ cell layers and subsequent development of the major organ systems will be covered with emphasis on the cardiovascular system, respiratory system, digestive system, urogenital system, limb formation, and neurologic system. The most common pediatric congenital defects associated with these systems will also be discussed and clinical examples provided.

BIOL 4000 CANCER BIOLOGY 3-0-3
Prerequisite: BIOL 3000 (minimum grade of C) and BIOL 3700 (minimum grade of C)
An introduction to carcinogenesis with an emphasis on the genetic, molecular, and cellular mechanisms regulating cancer initiation, progression, and metastasis.

BIOL 4100 CELL AND MOLECULAR BIOLOGY LABORATORY 0-6-2
Prerequisite: BIOL 3000 (minimum grade of C) and BIOL 3700 (minimum grade of C) and CHEM 2101
Laboratory research techniques in cell and molecular biology, with emphasis on inquiry-based projects, data analysis, and written and oral presentations.

BIOL 4150 PLANT PHYSIOLOGY 3-3-4
Prerequisite: BIOL 2020 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Physiologic processes occurring in plants and the conditions which affect these processes.

BIOL 4200 MAMMALIAN PHYSIOLOGY 3-0-3
Prerequisite: BIOL 3000 (minimum grade of C) and either BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
General physiologic processes of mammals.

BIOL 4210 COMPARATIVE PHYSIOLOGY 3-0-3
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Homeostatic mechanisms in animals, with emphasis on differing organs and adaptations which allow organisms to survive and succeed in their normal habitats, and animals’ responses to normal environmental conditions and to experimental conditions.

BIOL 4220 ENDOCRINOLOGY 3-0-3
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Prerequisite or corequisite: BIOL 4200 and CHEM 2101 and CHEM 2101L
Vertebrate endocrine systems: glands, targets, mechanisms of action, and control of metabolism.

BIOL 4230 NEUROPHYSIOLOGY AND DISEASE 3-0-3
Prerequisite: BIOL 2081 (minimum grade of C) or BIOL 4210 (minimum grade of C) or BIOL 4200 (minimum grade of C) or BIOL 4220 (minimum grade of C)
Functional anatomy of the nervous system with a discussion of its common diseases/disorders. Information on the neurologic exam as applied to the regions of the nervous system will be covered.

BIOL 4240 BEHAVIORAL ECOLOGY 3-0-3
Prerequisite: BIOL 3030 (minimum grade of C) or BIOL 3050 (minimum grade of C)
Examines the survival value of behavior; how behavior is shaped by the environment; and the evolution of behavior.

BIOL 4310 APPLIED MICROBIOLOGY 3-3-4
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Microbiological aspects of food, milk, water, domestic wastes, and industry.
BIOL 4320 ENVIRONMENTAL MICROBIOLOGY 3-3-4
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C).
Principles of microbial ecology that may include biogeochemical cycling, symbiotic relationships, and microbial life in various terrestrial and aquatic habitats. Laboratory will cover methods to study the diversity, phylogeny, and metabolism of Bacteria and Archaea.

BIOL 4400 VIROLOGY 3-0-3
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Survey of virus structure and genetics, replication strategies, molecular interactions between viruses and their hosts, viral diseases, use in biotechnology, and overall impact on society.

BIOL 4460 PHYTOPLANKTON ECOLOGY 3-4-4
Prerequisite: BIOL 2020 (minimum grade of C)
History, habitats, and ecology of the plant and protist species found in estuarine environments, with field trips to different coastal habitats.

BIOL 4470 SEA TURTLE BIOLOGY 3-0-3
Prerequisite: BIOL 3020 (minimum grade of C) or BIOL 3750 (minimum grade of C) or permission of instructor
Vertebrate anatomy, embryology, migration, population genetics, conservation and management of sea turtles and other threatened or endangered species.

BIOL 4500 BIOINFORMATICS AND BIOTECHNOLOGY 3-0-3
Prerequisite: BIOL 3000 (minimum grade of C)
Utilization of databases and software for the analysis of DNA and protein information. Production of products and services using biological materials.

BIOL 4510 MOLECULAR DEVELOPMENT 3-0-3
Prerequisite: BIOL 3000 (minimum grade of C) and BIOL 3700 (minimum grade of C)
The Biology of cellular and molecular signals which guide differentiation and morphogenesis.

BIOL 4520 EPIGENETICS 3-0-3
Prerequisite: BIOL 3000 (minimum grade of C), BIOL 3030 (minimum grade of C), and BIOL 3700 (minimum grade of C)
The molecular mechanisms that change gene expression without changing DNA sequence will be explored. Emphasis will be placed on the effect of histone modification and DNA methylation on phenotype and genome function. The ramifications of molecular epigenetic mechanisms on ecology, evolution, and human health will be discussed.

BIOL 4550 BIOLOGY OF MARINE ORGANISMS 3-4-4
Prerequisite: BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)
Relationship between organisms and abiotic and biotic features of the marine environment, with emphasis on local marine ecosystems. Field labs.

BIOL 4600 ICHTHYOLOGY 3-3-4
Prerequisite: BIOL 1108 (minimum grade of C) or 1108H (minimum grade of C)
Anatomy, physiology, behavior, ecology, and evolution of fishes. Laboratories may include field trips to regional habitats for observation and collection of fishes.

BIOL 4650 IMMUNOLOGY 3-3-4
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 3000 (minimum grade of C)
Study of the structure and mechanisms of nonspecific and specific immune responses. Immune diseases including hypersensitivity, transplantation, and autoimmunity will also be addressed.

BIOL 4750 TROPICAL FIELD BIOLOGY 3-4-4
Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 2020 (minimum grade of C) and BIOL 3020 (minimum grade of C) and permission of instructor.
Classroom lectures will cover the history, habitats, and ecology of the Florida Keys. In the field, students will design and conduct individual research projects that will be evaluated through oral and written presentations. Additional fee required.
BIOl 4910 RESEARCH 0-(3-9)-(1-3)
Prerequisite: permission of instructor or department head
Assigned research activity directed by a faculty member in the department, or at an appropriate outside facility.
Project to be approved by the faculty member or external supervisor. May be taken for 1, 2 or 3 credit hours.
Upon approval, 3 credit hours of research can substitute for a Biology elective in any track within the major.
If repeated for additional credit, up to 6 hours may be used as free electives.

BIOl 4950 INTERNSHIP 0-(3-9)-(1-3)
Prerequisite: permission of department head
Experiential learning opportunity sponsored by the Biology Department or an outside agency. Project selected, supervised, evaluated by faculty advisor and department head in consultation with outside agency. May be used to count only toward free electives. May be repeated for up to 9 total hours of credit.

BIOl 4970 SPECIAL TOPICS V-V-(1-4)
Prerequisite: permission of instructor or department
Topics of special interest.

BUSa – Business

BUSa 2106 ENVIRONMENT OF BUSINESS 3-0-3
Prerequisite: ENGL 1101
An introduction to the legal, regulatory, political, social, ethical, cultural environmental and technological issues which form the context for business; to include an overview of the impact and demographic diversity on organizations.

CEUG – Education Core

CEUG 1010 LIFESPAN DEVELOPMENT 3-1-3
Focuses on physical, emotional, cognitive, and social development. Application to classroom teaching and learning.

CEUG 2100 INTRODUCTION TO STUDENTS WITH DISABILITIES 3-0-3
Provides an introduction to federal and State of Georgia legislation mandates, and policies that support the identification and education of children, adolescents, and young adults who have learning needs requiring special education services and programs. Introduces the array of services available to individuals with disabilities as well as identification practices, including response to intervention (RtI). Meets educator certification requirements for under H. B. 671

CEUG 2222 INTRODUCTION TO RESEARCH DESIGN 3-0-3
Prerequisite: MATH 1111 and PSYC 1101
Prerequisite or corequisite: MATH 2200
Introduction to quantitative and qualitative research designs and methods. Inferential statistics, data collection, analyses of data and report of research findings, interpreting and translating research into practical applications.

CEUG 3010 CONSTRUCTING LITERACY PROGRAMS FOR PK-12 3-0-3
An in-depth study of how to construct literacy programs in PK-12 with emphasis on reading strategies, approaches, techniques, and evaluation tools. Course will include strategies for teaching written expression and spelling.

CEUG 3012 LANGUAGE ACQUISITION 3-0-3
Covers the current theories that explain human language acquisition. Study includes language components: phonology, morphology, syntax, semantics, and pragmatics. Explores typical and atypical language development and describes cultural influences on language acquisition and communication competence.

CEUG 3500 ORAL COMMUNICATION FOR TEACHERS 3-0-3
Prerequisite: permission of instructor or department
Morphological, phonological, syntactical, grammatical, and semantic structures of student idiolects and strategies for moving to standard American English.
CEUG 4100 INDEPENDENT STUDY  1-8-3
Prerequisite: Admission to College of Education
An in-depth, closely supervised, instructor-approved study in education. Student must have skills in independent research and study.

CEUG 4200 SPECIAL TOPICS  V-V-(1-4)
Prerequisite: permission of instructor or department
Study of topics relevant to education.

CEUG 5010U EDUCATION TESTS AND MEASUREMENTS  3-0-3
Prerequisite or corequisite: CEUG 3072 or ECUG 3072
Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

CHEM – Chemistry

CHEM 1010 ESSENTIALS OF CHEMISTRY  3-0-3
Prerequisite or corequisite: MATH 1111 or MATH 1001
Quantitative survey of chemical sciences emphasizing applications in human physiology, clinical chemistry, inorganic, organic, and biochemistry. Experimental principles illustrated with class-room demonstrations. (Credit in CHEM 1010 may not be applied to the major field requirement in chemistry.)

CHEM 1151 SURVEY OF CHEMISTRY I  3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
First course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health profession majors.

CHEM 1151L SURVEY OF CHEMISTRY I LABORATORY  0-3-1
Prerequisite: eligibility for MATH 1001 or MATH 1111
Prerequisite or corequisite: CHEM 1151
Laboratory exercises supplement the lecture material of CHEM 1151.

CHEM 1152 SURVEY OF CHEMISTRY II  3-0-3
Prerequisite: CHEM 1151
Second course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health profession majors.

CHEM 1152L SURVEY OF CHEMISTRY II LABORATORY  0-3-1
Prerequisite: CHEM 1151L
Prerequisite or corequisite: CHEM 1152
Laboratory exercises supplement the lecture material of CHEM 1152.

CHEM 1211 PRINCIPLES OF CHEMISTRY I  3-0-3
Prerequisite: MATH 1111 (minimum grade of C) or eligibility for MATH 1113, MATH 1161 or MATH 2072
Prerequisite or corequisite: CHEM 1211L
First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include composition of matter; nomenclature; atomic structure; bonding and molecular geometries; stoichiometry; properties of solids, liquids, gases; acids and bases; thermochemistry; and periodic relations.

CHEM 1211L PRINCIPLES OF CHEMISTRY I LABORATORY  0-3-1
Prerequisite or corequisite: CHEM 1211
First course in a two-semester sequence introducing students to chemical laboratory principles and experimental design.

CHEM 1211R PRINCIPLES OF CHEMISTRY I RECITATION  1-0-1
Corequisite: CHEM 1211
Recitation to accompany CHEM 1211 for students scoring less than 500 on the mathematics portion of the SAT. Credit in CHEM 1211R may not be applied to the major field requirement in chemistry. Grading is satisfactory/unsatisfactory.
CHEM 1212 PRINCIPLES OF CHEMISTRY II 3-0-3
Prerequisite: CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C)
Second course in a two-semester sequence covering the fundamental principles and applications of chemistry
designed for science majors. Topics include solutions; thermodynamics; equilibria; kinetics; electrochemistry;
nuclear chemistry; descriptive inorganic chemistry; and introduction to organic chemistry, and polymers.

CHEM 1212L PRINCIPLES OF CHEMISTRY II LABORATORY 0-3-1
Prerequisite: CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C)
Second course in a two-semester sequence introducing students to chemical laboratory principles and
experimental design.

CHEM 1212H HONORS PRINCIPLES OF CHEMISTRY II 3-0-3
Prerequisite: CHEM 1211 (minimum grade of B) and CHEM 1211L (minimum grade of B) and approval of
department head.
Second course in a two-semester sequence covering the fundamental and more advanced principles and applications
of chemistry designed for science majors. A more in-depth treatment of the topics covered in CHEM 1212.

CHEM 1212A HONORS PRINCIPLES OF CHEMISTRY II LAB 0-4-1
Prerequisite or corequisite: CHEM 1212H
Analytical applications of chemical laws and principles emphasized through advanced laboratory investigations.
A more in-depth treatment of the topics covered in CHEM 1212.

CHEM 2000 FUNDAMENTALS OF ORGANIC CHEMISTRY AND BIOCHEMISTRY 3-0-3
Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)
Fundamentals of organic chemistry applied to the major biochemical pathways. Course designed for allied
health majors. (Credit may not be applied to the major field requirement in chemistry.)

CHEM 2101 ORGANIC CHEMISTRY I 3-0-3
Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)
Prerequisite or corequisite: CHEM 2101L
Fundamental principles and theories of organic chemistry. Topics include bonding, organic functional groups,
organic synthesis, and spectroscopic analysis of organic molecules.

CHEM 2101L ORGANIC CHEMISTRY I LAB 0-4-1
Prerequisite or corequisite: CHEM 2101
Experiments utilize laboratory techniques in organic chemistry; reactions of organic compounds, organic
synthesis, and spectroscopic analysis.

CHEM 2102 ORGANIC CHEMISTRY II 3-0-3
Prerequisite: CHEM 2101 (minimum grade of C) and CHEM 2101L (minimum grade of C)
Prerequisite or corequisite: CHEM 2102L
Continuation of CHEM 2101, Organic Chemistry I.

CHEM 2102L ORGANIC CHEMISTRY II LAB 0-4-1
Prerequisite or corequisite: CHEM 2102
Experiments utilize laboratory techniques in organic chemistry; reactions of organic compounds, organic
synthesis, and spectroscopic analysis.

CHEM 2200 SCIENCE, TECHNOLOGY, AND THE MODERN WORLD 3-0-3
Prerequisite or corequisite: MATH 1111
Impact of science and technology on everyday life using quantitative case studies.

CHEM 2230 FOOD SCIENCE AND TECHNOLOGY 3-0-3
Interdisciplinary study of the chemical and biological nature and utilization of foods, including storage and
processing technologies affecting health, safety, and consumption.
CHEM 2300 PRINCIPLES OF CHEMICAL ANALYSIS 3-4-4
Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)
Classical methods of analysis including gravimetric and volumetric as well as statistical treatment of data and aqueous equilibria. Practical applications of fundamental principles of chemical analysis emphasized in the lab.

CHEM 2600 ETHICAL THEORIES AND MORAL ISSUES IN THE SCIENCES 2-0-2
Prerequisite or corequisite: 6 semester hours of science
Examination of the relationship between ethical theory and moral practice in specific areas of our society. This course involves two parts: (1) an explanation and analysis of the principal ethical theories of the Western world and (2) the application of those ethical theories to moral issues and case studies in the physical sciences.

CHEM 2700 DESCRIPTIVE AND MATERIALS CHEMISTRY 2-0-2
Prerequisite: CHEM 1212/1212L
Topics include descriptive chemistry of the main group elements, the transition elements, and industrial chemical processes.

CHEM 2900 INTRODUCTION TO CHEMICAL RESEARCH 0-(3-9)-(1-3)
Prerequisite: permission of the department head
Prerequisite or corequisite: CHEM 1212/1212L
Faculty originated chemical lab-based research project. Written report required.

CHEM 3071 PRINCIPLES OF CHEMICAL PROCESSES I 2-0-2
Prerequisite: CHEM 1212/1212L and MATH 1161
Introduction to methods of material and energy balance in chemical processes. Emphasis on process variables, systems of units, gas behavior, single/multiphase systems, and energy changes in reactive/non-reactive processes. (Credit in CHEM 3071 may not be applied to the major field requirement in chemistry.)

CHEM 3072 PRINCIPLES OF CHEMICAL PROCESSES II 2-0-2
Prerequisite: CHEM 3071
Continuation of CHEM 3071.

CHEM 3100 FORENSIC CHEMISTRY 3-4-4
Prerequisite: CHEM 1212/1212L
Fundamental principles of chemical forensics. Topics include but are not limited to explosives, soil, paint, blood and body fluid chemistry. Laboratory component reinforces the topics covered with a hands-on approach. (Credit in CHEM 3100 may not be applied to the major field requirement in chemistry.)

CHEM 3200 INORGANIC CHEMISTRY 3-4-4
Prerequisite: CHEM 2300 (minimum grade of C)
Prerequisite or corequisite: CHEM 2102
Fundamental principles in inorganic chemistry. Topics include electronic structure of atoms, inorganic bonding theories, group theory, coordination chemistry, and spectroscopic applications. The lab reinforces theoretical aspects.

CHEM 3300 INSTRUMENTAL ANALYSIS 3-4-4
Prerequisite: CHEM 2102/2102L and CHEM 2300 (minimum grade of C)
Prerequisite or corequisite: PHYS 1112K or PHYS 2212K
Modern methods of instrumental analysis with emphasis on electroanalytical, spectrophotometric and chromatographic techniques. Practical applications of fundamental principles of instrumental analysis reinforced in the lab.

CHEM 3401 PHYSICAL CHEMISTRY: THERMODYNAMICS AND KINETICS 3-4-4
Prerequisite: CHEM 2300 (minimum grade of C) and MATH 1161 (minimum grade of C)
Prerequisite or corequisite: PHYS 1112K or PHYS 2212K
CHEM 3402 PHYSICAL CHEMISTRY: QUANTUM MECHANICS AND SPECTROSCOPY  3-4-4
Prerequisite: CHEM 2300 (minimum grade of C)
Prerequisite or corequisite: MATH 2072 and either PHYS 1112K or PHYS 2212K
Quantum mechanics, theories of atomic/molecular structure, spectroscopy, photochemistry, group theory applied to spectroscopy. Analytical applications of physical chemistry emphasized through lab investigations.

CHEM 3801 BIOCHEMISTRY I  3-0-3
Prerequisite: CHEM 2102 (minimum grade of C) & CHEM 2102L (minimum grade of C)
Chemistry of cellular components: introduction to protein structure and function, enzyme kinetics and bioenergetics, mechanisms of catalysis, carbohydrate and lipid metabolism and biosynthesis.

CHEM 3802 BIOCHEMISTRY II  3-0-3
Prerequisite: CHEM 3801 (minimum grade of C)
Chemistry of cellular components: function and analysis of proteins, metabolism and biosynthesis of amino acids and nucleic acids, DNA replication and repair, DNA manipulations and recombinant technology, DNA transcription, RNA translation, protein modification, and regulation of gene expression

CHEM 3803 BIOCHEMISTRY LABORATORY  0-4-1
Prerequisite: CHEM 2300 (minimum grade of C), CHEM 2102 (minimum grade of C) and CHEM 2102L (minimum grade of C)
Prerequisite or corequisite: CHEM 3801
Experiments that utilize and teach advanced biochemistry techniques. Cross-listed with BCHM 3811.

CHEM 3900 CHEMICAL RESEARCH  0-(3-9)-(1-3)
Prerequisite: permission of department head
Prerequisite or corequisite: CHEM 2102
Faculty originated chemical lab-based research project. Scientific paper required.

CHEM 4100 ADVANCED TOPICS IN ORGANIC CHEMISTRY  2-0-2
Prerequisite: CHEM 2102, CHEM 2102L and instructor/Department Head permission
Topics may include synthesis of complex molecules and natural products, asymmetric synthesis and mechanistic organic chemistry. Analytical applications of organic chemistry emphasized through lab investigations. Course offerings include medicinal chemistry and molecular level organic chemistry. Course may be repeated as topics vary.

CHEM 4200 ADVANCED TOPICS IN INORGANIC CHEMISTRY  2-0-2
Prerequisite: CHEM 3200 and instructor/Department Head permission
Course offerings may include metals in medicine, bioinorganic chemistry, and applied catalysis and biocatalysis. Course may be repeated as topics vary.

CHEM 4300 ADVANCED TOPICS IN ANALYTICAL CHEMISTRY  2-0-2
Prerequisite: CHEM 3300 and instructor/Department Head permission
Course offerings may include bioanalytical chemistry and NMR methods in chemistry. Course may be repeated as topics vary.

CHEM 4400 ADVANCED TOPICS IN PHYSICAL CHEMISTRY  2-0-2
Prerequisite: CHEM 3401 and instructor/Department Head permission
Course offerings may include computational chemistry, chemical kinetics, and quantum chemistry. Course may be repeated as topics vary.

CHEM 4500 CHEMISTRY SEMINAR  2-0-2
Prerequisite or corequisite: CHEM 3402
Use of chemical journals, references, and electronic information sources. Includes a variety of oral and written assignments. Chemistry faculty involved in assessments.

CHEM 4600 ADVANCED TOPICS IN INTERDISCIPLINARY CHEMISTRY  2-0-2
Prerequisite: CHEM 2102, CHEM 2102L, CHEM 2300 and instructor/Department Head permission
Course offerings may include chemistry of materials, plagiarism & misconduct in science, forensic chemistry, and environmental chemistry. Course may be repeated as topics vary.
CHEM 4800 PEDAGOGY AND SUPPLEMENTAL INSTRUCTION IN CHEMISTRY  
(0-3)-(0-9)-(1-3)  
Prerequisite: Open only to chemistry majors, CHEM 2300 (minimum grade of C), CHEM 2102 (minimum grade of C), CHEM 2102L (minimum grade of C) and permission of Department Head.  
Provides students interested in becoming high school chemistry educators with the knowledge, skills, and strategies fundamental to the best practices of inclusive chemistry instruction in high school settings. Course goals will be accomplished through the reading of pedagogical works, mentoring with an instructor, direct supplemental instruction, tutoring, lesson planning and delivery in a lower-level chemistry course. Completion of a chemistry education project is also required.

CHEM 4940 SPECIAL TOPICS IN CHEMISTRY  
V-V-(1-3)  
Prerequisite: announced with the topic, permission of department head  
Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

CHEM 4950 SPECIAL LECTURE TOPICS IN CHEMISTRY  
V-0-(1-3)  
Prerequisite: announced with the topic, permission of department head  
Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

CHEM 4960 INTERNSHIP  
V-Y-(1-12)  
Prerequisite: CHEM 2102 and CHEM 3300 and CHEM 3402 and permission of department head  
Supervised individual research in a non-academic lab setting. Directed by a scientist onsite. Work and credit pre-approved by department head. Paper and oral presentation required.

CHEM 4991 ADVANCED CHEMICAL RESEARCH  
0-(3-9)-(1-3)  
Prerequisite: permission of department head and CHEM 2102 and CHEM 3401  
Prerequisite or corequisite: CHEM 4500  
Faculty-originated chemical lab-based research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.

CHEM 5600U CHEMICAL SAFETY  
2-0-2  
Prerequisite: CHEM 2102  
Standard laboratory safety practices emphasizing the hazardous properties of chemicals, safe storage, chemical disposal and government regulations.

CHEM 5700U HISTORY OF CHEMISTRY  
3-0-3  
Prerequisite: CHEM 1212/1212L or PHSC 1212  
Survey of the development of chemistry and its relationship to the study of science. Prominent chemists, chemical theories, and implications of science covered. Written and oral presentations. (Credit in CHEM 5700U may not be applied to the major field requirement in chemistry.)

CLAS – Classics  
CLAS 3351, -2, -3 STUDY ABROAD IN ROME AND ATHENS  
9-0-9  
Prerequisite: LATN 1002  
An 8-9 week summer semester’s residence and study in Rome and Athens in conjunction with the Studies Abroad Program of the University System of Georgia. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati, the student experiences first hand the reality of life in the ancient world. Crosslisted as LATN 3351, -2, -3.

COMM – Communication  
COMM 2280 SPEECH COMMUNICATION  
3-0-3  
Practice and theory of communication and public speaking, focusing on developing the skills required to prepare and deliver a public address.

COMM 3050 INTERPERSONAL AND SMALL GROUP COMMUNICATION  
3-0-3  
Prerequisite: ENGL 1101  
Examination of communication as a tool in creation and implementation of organizational policy.
COMM 3060 PUBLIC RELATIONS 3-0-3
Prerequisite: ENGL 2100
Introduction to the nature and scope of public relations, the principles and techniques underlying the practice.

COMM 3270 VIDEO LAB 0-1-1
Prerequisite: ENGL 1102
Practical experience in video production through work on approved projects under supervision of Armstrong’s video production coordinator. Only one hour of credit may be earned per semester. Repeatable up to three hours. Crosslisted as THEA 3270.

COMM 5050U INTERPERSONAL COMMUNICATION IN THE WORKPLACE 3-0-3
Prerequisite: COMM 2280
Communication theory, research, and applications of various forms of interpersonal communication in the workplace. Topics may include superior-subordinate communication, interviewing, and presentations.

COMM 5100U COMMUNICATION THEORY 3-0-3
Prerequisite: COMM 2280
A broad survey of contemporary theories and processes of interpersonal, public, and mediated human communication.

COMM 5200U NONVERBAL COMMUNICATION 3-0-3
Prerequisite: COMM 2280
An introduction to the theories, processes and effects of communication in nonverbal codes. Topics may include kinesics, proxemics and paralanguage. Critical analysis and contemporary research emphasized.

COMM 5500U COMMUNICATION BETWEEN THE GENDERS 3-0-3
Prerequisite: COMM 2280
An overview of communication research and theory examining differences in verbal and nonverbal communication between men and women and the effects and functions of communication between the genders.

COMM 5600U SPECIAL TOPICS IN COMMUNICATION 3-0-3
Prerequisite: COMM 2280 or permission of instructor
Subject announced when course offered. Topics vary, such as environmental impacts on communication, transactional analysis theory, non-verbal communication.

CRJU – Criminal Justice

CRJU 1100 INTRODUCTION TO CRIMINAL JUSTICE 3-0-3
Prerequisite: eligibility for ENGL 1101
Emergence and current state of formal institutions established within the American experience to deal with criminal behavior. Philosophical, cultural, social, economic, and political aspects of the justice system and process.

CRJU 1130 INTERPERSONAL COMMUNICATION SKILLS 3-0-3
Development of interpersonal communication skills to improve interaction among agency employees and between employees and the public.

CRJU 1210 INTRODUCTION TO CYBER CRIME 3-0-3
Prerequisite: ENGL 1101
History of cybercrime and the examination of techniques and strategies for investigating computer crime.

CRJU 2010 UNIVERSAL JUSTICE (2-3)-0(2-3)
Critical juxtaposition of the justice ideal in actual practice in the U.S. and other countries. Development of universal justice construct rooted in the rule of law and applicable to terrorism, piracy, international criminal conspiracy, immigration, sanctuary, asylum, amnesty, and war crimes.

CRJU 2020 ETHICAL THEORIES AND MORAL ISSUES IN CRIMINAL JUSTICE 3-0-3
Relationship between ethical theory and criminal justice policies and practices. Principal ethical theories of the western world and the application of these theories to the administration of justice in the United States. Ethical underpinnings of the crime control and due process models of justice.
CRJU 2200 CRIMINAL INVESTIGATION 3-0-3
Prerequisite: eligibility for ENGL 1101
Investigative methodology focusing on techniques employed in criminal investigation, including crime scene searches, use of informants and surveillance. Presentation of police cases in court.

CRJU 2210 INTRODUCTION TO LAW ENFORCEMENT 3-0-3
Prerequisite: CRJU 1100
History, philosophy, and basic objectives of the police system in the U.S. and Georgia. Emphasizes applications of the law for law enforcement officers.

CRJU 2410 INTRODUCTION TO CORRECTIONS 3-0-3
Prerequisite: CRJU 1100
Analysis and evaluation of both historical and contemporary correctional systems. Development, organization operation, and results of the different correctional systems in the U.S.

CRJU 2700 DIRECTED READINGS IN CRIMINAL JUSTICE V-V-(1-3)
Prerequisite: CRJU 1100
Independent study and research on an approved topic, directed by a faculty member.

CRJU 3001 MOOT COURT I 3-0-3
Prerequisite: Either ENGL 1102 or COMM 2280, and POLS 2200, or permission of the instructor.
Legal argumentation and decision making including writing briefs, research, and forensic skills.

CRJU 3002 MOOT COURT II 3-0-3
Prerequisite: B or better in CRJU/POLS 3001
A continuation of Moot Court I, for those ready for a second semester of moot court study and competition.

CRJU 3100 RESEARCH METHODS 3-0-3
Prerequisite: ENGL 1101 and a grade of C or better in MATH 2200
Open to juniors and seniors only. Methods and techniques of research in the social sciences. Emphasis on evaluating research.

CRJU 3110 CRITICAL THEORY OF CRIMINAL JUSTICE 3-0-3
Prerequisite: CRJU 3300 or permission of instructor
Critiques of American criminal justice theory and practice from alternative viewpoints.

CRJU 3120 ILLEGAL IMMIGRATION 3-0-3
Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100
Political and legal aspects of immigration in a nation of immigrants. Emphasis on operational and bureaucratic impediments of enforcement of immigration laws.

CRJU 3130 HATE CRIMES AND ORDERED LIBERTY 3-0-3
Prerequisite: HIST 1100 or POLS 1100
Racial, ethnic, cultural, and religious strife and the tension between freedom and equality in democratic societies. Focus on the governmental definition of hate crimes and the historical, economic, and political roots of such crimes. Crosslisted as SOCI 3130.

CRJU 3140 POLITICAL CRIMES 3-0-3
Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100
Crimes committed by and against the governments and officers of modern democratic states. Focus on criminal activity by government leaders acting in official capacity and on all illegal activities at all levels of government in the United States.

CRJU 3160 WHITE-COLLAR AND ORGANIZED CRIME 3-0-3
Prerequisite: CRJU 1100
Nature, scope, and impact of white collar, corporate, and organized crime on the individual and American society.

CRJU 3170 CRIMINAL JUSTICE ADMINISTRATION 3-0-3
Prerequisite: CRJU 1100 and CRJU 2020
Survey of basic concepts and principles concerned with the administration and management of agencies within the criminal justice system. Emphasis will be placed on organizational structure, functions and behavioral processes.
CRJU 3180 DEVIANCE AND SOCIAL CONTROL 3-0-3
Prerequisite: CRJU 1100 or SOCI 1101
Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological theories of deviance. Deviance and social control are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed as SOCI 3180.

CRJU 3190 CRIMINAL LAW 3-0-3
Prerequisite: CRJU 1100
Examination of legal norms used by government to control deviant behavior and the overlap with moral and social norms.

CRJU 3200 CRIMINALISTICS 3-0-3
Prerequisite: 6 semester hours of science
Problems and techniques of scientific criminal investigation. The role of science and technology in modern law enforcement.

CRJU 3210 LAW ENFORCEMENT: STRUCTURE AND PROCESS 3-0-3
Prerequisite: CRJU 1100
Philosophical, cultural, and historical background of policing, focusing on the role of police in contemporary society, quasi-military organization, and community relations.

CRJU 3220 INDUSTRIAL, COMMERCIAL, AND PRIVATE SECURITY 3-0-3
Prerequisite: CRJU 1100
History, development, and analysis of privately employed police and security in the U.S. Topics include an analysis of public vs. private agencies, types (contract and proprietary), and components (physical, information and personnel) of private security. Special emphasis on the functions, strengths, and problems encountered by privatized agencies.

CRJU 3300 CRIMINOLOGY 3-0-3
Prerequisite: CRJU 1100 and ENGL 1101
Nature and extent of crime in the U.S. Evaluation of factors leading to criminal behavior and measures proposed to control it.

CRJU 3410 COMMUNITY-BASED TREATMENT 3-0-3
Prerequisite: CRJU 2410 or permission of the instructor
Review of community-based treatment programs, emphasizing functions of halfway houses and use of volunteers in corrections.

CRJU 3500 CRIMINAL EVIDENCE AND PROCEDURE 3-0-3
Prerequisite: POLS 2200
Historical and contemporary overview of rules governing criminal procedure and rules of evidence as they affect the accused, the convicted, the functions of law enforcement, and the conduct of criminal prosecutions. Constitutional rights of the accused and the conflict of those rights with maintenance of public order and enforcement of criminal law.

CRJU 3600 TOPICS IN CRIMINAL JUSTICE V-V-(1-3)
Prerequisite: permission of instructor or department
Substantive topics, problems, and issues not covered in other courses but of importance to contemporary study of criminal justice. Topics to be announced before each offering; course may be repeated if topic is substantially different.

CRJU 4172 TERRORISM AND NATIONAL SECURITY LAW 3-0-3
Prerequisite: CRJU/POLS 2200 or POLS 1100; at least one of the following courses: POLS 5500U or POLS 3150 or POLS 3160
Exploration of the role of law in American national security policy, with a focus on statutes and United States Supreme Court decisions related to terrorism and enemy detainee cases.
CRJU 4400 SEMINAR IN CORRECTIONS MANAGEMENT 3-0-3
Prerequisite: CRJU 2410 or permission of instructor
Basic principles and practices of administration and their application to adult and juvenile corrections. Special emphasis upon organizational structure, planning, decision making, management strategies, and personnel management.

CRJU 4500 ADVANCED LAW OF EVIDENCE 3-0-3
Prerequisite: CRJU 3500
Epistemological assumptions and policy purposes of evidentiary rules, doctrines and concepts.

CRJU 4800 INTERNSHIP I 0-20-6
Prerequisite: permission of instructor or department head
Application of academic knowledge in criminal justice setting. Joint supervision by faculty internship coordinator and agency officials. Requires a substantial research paper.

CRJU 4810 INTERNSHIP II 0-20-6
Prerequisite/Co requisite: CRJU 4800 Internship I and permission of instructor or department head.
Application of academic knowledge in criminal justice setting. Joint supervision by faculty internship coordinator and agency officials. Requires a substantial research paper.

CRJU 4900 DIRECTED RESEARCH IN CRIMINAL JUSTICE 3-0-3
Prerequisite: CRJU 3100
Open to seniors. Conduct of a major research project with presentation of the results orally and in a paper conforming to departmental guidelines.

CRJU 4910 SEMINAR IN CRIMINAL JUSTICE 3-0-3
Prerequisite: CRJU 3100
Open to seniors. This course is an intensive study/seminar of selected criminal justice topics. Requirements include a comprehensive research paper with an oral presentation.

CRJU 5003U CYBER FORENSICS 3-0-3
Application of computer investigation and analysis techniques to gather evidence suitable for presentation in a court of law. Techniques of cyber crime scene analysis, media analysis, and the use of various forensic tools. Students cannot receive credit for both CRJU 5003U/G and CRJU 5010U/G.

CRJU 5010U DIGITAL FORENSICS I 3-0-3
Prerequisite: CRJU 1100 and senior standing
Identification, capture, and recording of evidence from suspect and victim’s computer hard drives and laptops. Students cannot receive credit for both CRJU 5003U/G and CRJU 5010U/G.

CRJU 5020U DIGITAL FORENSICS II 3-0-3
Prerequisite: CRJU 5010U
Expansion of the identification, capture, and recording of evidence from suspect and victim’s mobile devices such as mobile phones, tablets, and PDAs.

CRJU 5130U POLITICAL TERRORISM 3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counterterrorism in a democracy. Cross-listed with POLS 5130U and SOCI 5130U.

CRJU 5200U ALCOHOL, DRUGS, AND CRIMINAL JUSTICE 3-0-3
Prerequisite: CRJU 1100
Exploration of the pharmacological effects and medical uses of drugs and alcohol; the relationships between drugs and crime, the criminal justice system, and government’s crime control policy.

CRJU 5300U JUVENILE DELINQUENCY 3-0-3
Prerequisite: CRJU 1100
CRJU 5500U LAW AND LEGAL PROCESS 3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of
the legal process viewed from the perspectives of jurisprudence, political science, and sociology. Crosslisted
as POLS 5500U.

CRJU 5520U COMPARATIVE JUDICIAL SYSTEMS 3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan.
Crosslisted as POLS 5520U.

CSCI – Computer Science

CSCI 1060 COMPUTER PROGRAMMING CONCEPTS 2-3-3
Prerequisite: MATH 1111 or a grade of at least 550 on the mathematics portion of the SAT
Introduction to concepts and techniques used in computer programming and algorithm development. Students
will apply and develop these concepts through programming assignments and projects. Concepts are developed
using traditional computer languages as well as those that allow programming of animations.

CSCI 1150 FUNDAMENTALS OF THE INTERNET AND WORLD WIDE WEB 3-0-3
Prerequisite: MATH 1001 or MATH 1111
Topics covered include basics of computer networking, e-mail systems, Internet service providers, text editing,
researching and publishing online, the Internet, the World Wide Web, searching the World Wide Web, FTP,
HTML programming, multimedia, people-centric Internet applications, and related privacy and security concerns.

CSCI 1171 COMPUTING IN MATLAB 0-3-1
Prerequisite: CSCI 1301
Introductory computing in MATLAB for students with a solid introductory computing background needing to
demonstrate proficiency in the MATLAB language.

CSCI 1301 INTRODUCTION TO PROGRAMMING PRINCIPLES 3-0-3
Prerequisite: MATH 1113
Overview of computers and programming. Fundamentals of structured computer programming; primitive data
types, expressions, control statements, methods, arrays, searching, sorting; debugging techniques; introduction
to algorithm analysis.

CSCI 1301H HONORS INTRODUCTION TO PROGRAMMING PRINCIPLES 3-0-3
Prerequisite: MATH 1113 and either acceptance to honors program or permission of the instructor
A more in-depth treatment of the topics covered in CSCI 1301, with extended examples from the natural sciences,
mathematics, humanities and the research programs of the faculty of the College of Science and Technology.

CSCI 1302 ADVANCED PROGRAMMING PRINCIPLES 3-0-3
Prerequisite: CSCI 1301
Object-oriented design and implementation. Topics include: object and class design, inheritance, polymorphism,
interfaces, graphical user interfaces and event-driven programming, exception handling, file input and output.

CSCI 1371 COMPUTING FOR ENGINEERS 3-0-3
Prerequisite or co-requisite: MATH 1161
Foundations of computing with an introduction to design and analysis of algorithm and an introduction to
design and construction of programs for engineering problem-solving.

CSCI 2060 COMPUTER LITERACY FOR EDUCATORS 2-0-2
Prerequisite: MATH 1111
Hardware and software components of computers, elementary programming and the impact of computers on
curriculum. Discussion of the capabilities and limitations of computers, and the kinds of problems that are
best solved by computers. Experience with developing and modifying algorithms to solve such problems.
Emphasis on instructional uses of microcomputers. Not designed for the computer science major. May not be
applied as part of a language sequence. Credit granted for only one of ITEC 1050, CSCI 1060, or CSCI 2060.
CSCI 2070 INTRODUCTION TO COMPUTER ETHICS AND CYBER SECURITY 3-0-3
Prerequisite: ENG1102 and either CSCI 1302 or ITEC 1310
Study of ethical and security considerations for computer professionals and users. Topics include issues of privacy, intellectual property rights, and cybercrime.

CSCI 2410 DATA STRUCTURES AND ALGORITHMS 3-0-3
Prerequisite: CSCI 1302 and MATH 1161
Topics include: recursion, generics, linked lists, stacks, queues, hash tables, trees, graphs, heaps,) sorting algorithms, and time and space complexity analysis. Use of application program interfaces (API's).

CSCI 2490 C++ PROGRAMMING 3-0-3
Prerequisite: CSCI 1302
Coverage of C++ programming techniques: primitive data types, control structures, functions, pass-by-value, pass-by-reference, arrays, pointers, C-strings, recursion, classes and objects, file input and output, operator overloading, inheritance, exception handling, templates, and STL.

CSCI 2625 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3-0-3
Prerequisite: CSCI 1302
Introduction to mathematical and algorithmic reasoning. Topics include propositional and predicate logic, proofs, program verification, combinatorics, number theory, set theory, functions and relations, asymptotic analysis, and matrices.

CSCI 2990 TOPICS IN COMPUTER SCIENCE V-V-(1-4)
Prerequisite: announced with the topic
Special topics at freshman and sophomore level of current interest in computer science.

CSCI 3201 FOUNDATIONS OF DIGITAL SYSTEMS 3-0-3
Prerequisite: CSCI 1302
Hardware and software concepts of digital computing systems, with emphasis on fundamental digital system design and details of hardware operation. Systems organization, digital logic, instruction and data formats, addressing modes, error detecting and correcting codes, and register transfer.

CSCI 3202 COMPUTER ORGANIZATION AND ARCHITECTURE 3-0-3
Prerequisite: CSCI 2410
Instruction types, assembly language programming, flow of control, microprogramming, the memory hierarchy, virtual memory, cache organization, and advanced computer architectures (including RISC machines and parallel architectures).

CSCI 3301 UNIX AND SECURE WEB DEVELOPMENT 3-0-3
Prerequisite: CSCI 1301 or ITEC 1310
Thorough introduction to the UNIX operating system. UNIX commands, editors, documentation, and file system. Shells, redirection, filters, pipes, and job control. Compile/edit/debug cycle under UNIX. Install and administer a UNIX system and deploy a secure Web server. Develop dynamic Web applications using technologies such as PHP and SQL databases and the LAMP stack. Hands-on study of UNIX and Web application security vulnerabilities.

CSCI 3321 INTRODUCTION TO SOFTWARE ENGINEERING CONCEPTS 3-0-3
Prerequisite: CSCI 2410 and ENGL 3720
Principles and techniques of designing and implementing software systems, including system life-cycle models, planning techniques, requirements analysis and systems specifications, human interfaces, design, implementation, testing, maintenance, team structure, project management. A student project encompassing some or all of these techniques with oral and written presentation.

CSCI 3330 COMPARATIVE LANGUAGES 3-0-3
Prerequisite: CSCI 2490
Comparative study of programming languages including facilities for procedures, parameter passing and recursion, control structures, and storage allocation techniques. Methods of specifying syntax and semantics. Introduction to program translation.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 3341</td>
<td>INTRODUCTION TO OPERATING SYSTEMS</td>
<td>3-0-3</td>
<td>CSCI 2490 and CSCI 3202</td>
<td>Concepts, structure, and mechanisms of operating systems. Topics include processes, concurrency, memory management, scheduling, I/O management, disk scheduling, file management, basic aspects of protection and security, distributed systems.</td>
</tr>
<tr>
<td>CSCI 3370</td>
<td>HUMAN COMPUTER INTERACTION</td>
<td>3-0-3</td>
<td>CSCI 1301 or ITEC 1310 or ENGR 1371</td>
<td>Paradigms in user interface design and related human factors. Topics include: user-system compatibility analysis, techniques for user interface design, methods for interface analysis, multimodal interaction and interaction analysis.</td>
</tr>
<tr>
<td>CSCI 3510</td>
<td>THEORY OF COMPUTATION</td>
<td>3-0-3</td>
<td>CSCI 2625</td>
<td>Computational machine models, including finite automata, pushdown automata, and Turing machines, and their associated language classes.</td>
</tr>
<tr>
<td>CSCI 3625</td>
<td>ADVANCED DISCRETE STRUCTURES</td>
<td>3-0-3</td>
<td>CSCI 2625</td>
<td>Topics in discrete mathematics including advanced counting techniques, discrete probability, graph theory, Boolean Algebra, and modelling computation.</td>
</tr>
<tr>
<td>CSCI 3720</td>
<td>DATABASE SYSTEMS</td>
<td>3-0-3</td>
<td>CSCI 2410</td>
<td>Database management system concepts and architecture; the relational, hierarchical, network, entity-relationship, and other models; design concepts; and internal implementation techniques.</td>
</tr>
<tr>
<td>CSCI 3961</td>
<td>INTERNSHIP IN COMPUTER SCIENCE</td>
<td>V-V-(1-4)</td>
<td>Permission of instructor or program coordinator</td>
<td>Practical study experiences in a variety of computing environments under the direction of faculty and appropriate off-campus supervisors.</td>
</tr>
<tr>
<td>CSCI 3990</td>
<td>PROGRAMMING SEMINAR</td>
<td>V-V-(1-3)</td>
<td>CSCI 1302</td>
<td>Development of problem solving techniques in a team environment. (Designed for but not restricted to, programming contests.)</td>
</tr>
<tr>
<td>CSCI 4390</td>
<td>SENIOR PROJECT</td>
<td>0-3-3</td>
<td>Permission of instructor or department and CSCI 3321</td>
<td>Development of requirement definitions, architectural design specification, detailed design specification, testing plan, documentation, and implementation for the software and/or hardware components of a comprehensive project. Oral and written presentation of project required.</td>
</tr>
<tr>
<td>CSCI 4999</td>
<td>INDEPENDENT STUDY</td>
<td>V-V-(1-3)</td>
<td>Permission of the instructor</td>
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<tr>
<td>CSCI 5100U</td>
<td>OBJECT-ORIENTED PROGRAMMING</td>
<td>3-0-3</td>
<td>CSCI 3321</td>
<td>An advanced study of the object-oriented paradigm for software development. Topics include abstract data types, classes, contracts, design patterns, inheritance, polymorphism, O-O languages, and design methods.</td>
</tr>
<tr>
<td>CSCI 5220U</td>
<td>NETWORKS</td>
<td>3-0-3</td>
<td>CSCI 3202</td>
<td>Introduction to data communications and networking. Topics include communications media, codes, data transmission, multiplexing, protocols, layered networks.</td>
</tr>
</tbody>
</table>
CSCI 5322U ADVANCED SOFTWARE ENGINEERING 3-0-3
Prerequisite: CSCI 3321 and CSCI 3720
Advanced software engineering principles, including software processes and methodologies, CASE tools, software metrics, software quality assurance, reusability and reengineering, and future trends. Major project encompassing some or all of these concepts.

CSCI 5342U ADVANCED OPERATING SYSTEMS 3-0-3
Prerequisite: CSCI 3341
Case studies of UNIX (tm) and/or similar operating systems. Elementary knowledge of C/C++ required.

CSCI 5350U COMPILER THEORY 3-0-3
Prerequisite: CSCI 3330 and CSCI 3510
Programming language translation and basic compiler implementation techniques, formal grammars and languages, specification of syntax and semantics, lexical analysis; parsing, semantic processing. A major project encompassing some or all of these concepts.

CSCI 5360U EMBEDDED SYSTEMS PROGRAMMING 3-0-3
Prerequisite: CSCI 3202 and CSCI 2490
Developing applications for embedded microprocessors including virtual machine architectures, data communications, time critical I/O, cross compiling, and debugging techniques.

CSCI 5370U HANDHELD AND UBQUITOUS COMPUTING 3-0-3
Prerequisite: CSCI 3202
Survey of personal digital assistants (PDA's) and ubiquitous computing hardware, operating systems, virtual machines, and API's. Development of PDA applications, cross compiling and hardware emulation, PDA GUI design, infra-red and wireless data communications, and desktop conduit developments.

CSCI 5410U ANALYSIS OF ALGORITHMS 3-0-3
Prerequisite: CSCI 2410 and CSCI 2625
Advanced techniques for designing and analyzing efficient algorithms for combinatorial, algebraic, and number-theoretic problems.

CSCI 5520U RAPID JAVA APPLICATION DEVELOPMENT 3-0-3
Prerequisite: CSCI 2410
Study of rapid application development techniques for producing software with minimum coding. Includes component-based software development, JavaBeans, event delegation model, model-view approach, and Swing components.

CSCI 5610U NUMERICAL ANALYSIS 3-0-3
Prerequisite: MATH 2072 and CSCI 1301
Introductory numerical analysis and scientific computation. Topics include computer arithmetic, numerical error, polynomial interpolation, systems of linear equations, iterative methods for nonlinear equations, least squares approximation, numerical and integration. Crosslisted as MATH 4610.

CSCI 5700U COMPUTER SECURITY 3-0-3
Prerequisite: CSCI 2625 and CSCI 3301
Key concepts and algorithms involved in cryptography and computer security. Includes intrusion detection, firewalls, and digital signatures.

CSCI 5720U ADVANCED DATABASE SYSTEMS 3-0-3
Prerequisite: CSCI 3720
Survey of database systems, query processing and optimization, transactions, transaction systems, currency control, recovery, security, e-commerce.

CSCI 5735U DATA MINING 3-0-3
Prerequisite: CSCI 3720
Study of data mining functionalities including characterization and discrimination, classification and prediction, cluster analysis, association analysis, outlier analysis, evolution analysis, data mining system architectures, data mining query languages; and OLAP technology for data mining. Multiple projects encompassing a number of the discussed concepts.
CSCI 5820U MACHINE LEARNING 3-0-3
Prerequisite: CSCI 2490 and CSCI 2625
Developing advanced applications using diverse machine learning and computational intelligence algorithms for pattern recognition, classification and decision-making, including decision trees, neural networks, Bayesian learning, clustering, and kernel-based techniques. Multiple projects and a term project encompassing some or all of these concepts.

CSCI 5825U ARTIFICIAL INTELLIGENCE 3-0-3
Prerequisite: CS 3330
An introduction to machine intelligence, problem solving paradigms, search in state spaces, inference methods, expert systems, game trees, natural language understanding, intelligent agents, multi-agent systems, robotics, and logic and theorem proving.

CSCI 5830U COMPUTER GRAPHICS 3-0-3
Prerequisite: CSCI 2490 and either MATH 2160 or CSCI 3625
Introduction to computer graphics programming. Topics include graphics programming standards, two- and three-dimensional rendering pipelines, geometric models (including primitives, fonts, curves, and surfaces), affine transformations, orthogonal and perspective views, shading and lighting models, images and texture mapping, interactions and animations. Major project encompassing some or all of these concepts.

CSCI 5990U SPECIAL TOPICS IN COMPUTER SCIENCE V-V-(1-4)
Prerequisite: announced with the topic
Selected new topics in computer science.

CSDS – Communication Sciences and Disorders
CSDS 1001 AMERICAN SIGN LANGUAGE I 3-0-3
Introduction to the structure of American Sign Language, as well as to the history and culture of the Deaf Community. Includes use of signs, finger spelling, body language and facial expressions. Grammar is introduced in context, with an emphasis on developing question and answer skills.

CSDS 1002: AMERICAN SIGN LANGUAGE II 3-0-3
Prerequisite: CSDS 1001 or equivalent or permission of instructor
This course is designed to increase recognition and recall needed to improve conversational skills in ASL to a functional level for expressive and receptive use. Content will provide greater knowledge of the grammar, syntax and other aspects of the language.

CSDS 1220 INTRODUCTION TO COMMUNICATION DISORDERS 3-0-3
Types, characteristics, etiologies, and treatment methodologies of various communication disorders in children and adults.

CSDS 2001 AMERICAN SIGN LANGUAGE III 3-0-3
Prerequisite: CSDS 1001 and CSDS 1002 or permission of instructor
This course is a continuation of American Sign Language, expanding the emphasis on ASL grammar, vocabulary development, and Deaf culture. Dialogue, short stories, narratives, and short conversation, both receptive and expressive, will be featured through the course.

CSDS 2230 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS 3-0-3
Anatomy and physiology of areas of respiration, phonation, articulation, cerebration/nervous system and audition; functional correlates to the communication process. Supplemental lab experience required. Field experiences required.

CSDS 2240 NORMAL SPEECH AND LANGUAGE DEVELOPMENT 3-0-3
Phonological, morphological, semantic, syntactic, and pragmatic growth. Observation practicum required.

CSDS 2250 PHONETICS 3-0-3
International phonetic alphabet(IPA) in speech-language pathology. IPA transcription of connected speech (normal and disordered), important characteristics of regional/cultural dialects.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSDS 2260</td>
<td>COMMUNICATION DISORDERS IN THE MEDIA</td>
<td>3-0-3</td>
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<tr>
<td>CSDS 3400</td>
<td>SPEECH SCIENCE</td>
<td>3-0-3</td>
</tr>
<tr>
<td>Prerequisite: CSDS 2230 and CSDS 2250, or Permission of Department Head</td>
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<tr>
<td>Physiological production, acoustics, physics of speech, analysis of speech, and technology-related instrumentation available to assess the parameters of speech production.</td>
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<td>CSDS 3410</td>
<td>INTRODUCTION TO AUDIOLOGY</td>
<td>3-1-3</td>
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<tr>
<td>Prerequisite: CSDS 2230 or Permission of Department Head</td>
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<tr>
<td>Introduction to etiology, characteristics, assessment, and rehabilitation of individuals with hearing impairments. Directed observation.</td>
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<tr>
<td>CSDS 3420</td>
<td>LANGUAGE DISORDERS</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite: CSDS 2240</td>
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<tr>
<td>Etiology, characteristics, classification, assessment, and treatment of language disorders. Field experiences required.</td>
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<tr>
<td>CSDS 3430</td>
<td>ORGANICALLY-BASED COMMUNICATION DISORDERS</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite: CSDS 2240</td>
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<tr>
<td>Etiology, characteristics, assessment, and treatment of the disorders of voice, cleft palate, and cerebral palsy. Field experiences required.</td>
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<tr>
<td>CSDS 3440</td>
<td>ARTICULATION DISORDERS</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite: CSDS 2240 and CSDS 2250</td>
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<tr>
<td>Etiology, characteristics, classification, assessment, and treatment of articulation and phonological disorders. Field experiences required.</td>
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<tr>
<td>CSDS 3450</td>
<td>PROFESSIONAL DILEMMAS IN HEALTHCARE</td>
<td>3-0-3</td>
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<tr>
<td>Examines dilemmas in health care relevant to today’s society and the decision making processes involved in service delivery. Philosophical and faith-based belief systems will be explored along with socio-cultural influences, professional codes, organizational and personal standards.</td>
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<tr>
<td>CSDS 3470</td>
<td>INDEPENDENT STUDY</td>
<td>V-V-(1-3)</td>
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<td>Prerequisite: permission of instructor or department</td>
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<td>Independent study in an area of interest in Communication Sciences and Disorders.</td>
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<tr>
<td>CSDS 3470H</td>
<td>HONORS INDEPENDENT STUDY</td>
<td>V-V-(1-3)</td>
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<tr>
<td>Prerequisite: permission of instructor or department</td>
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<td>Course provides a more in-depth treatment of content appropriate for CSDS 3470. Students are required to read widely and participate in advance discussion of topics under the direction of the professor. Students must have any one of the following: admission to Armstrong Honors Program; a score of three or above on AP exam; an NCTE writing award; recommendation of Communication Sciences and Disorders instructor and approval of the program coordinator.</td>
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<tr>
<td>CSDS 4050</td>
<td>INTERCULTURAL COMMUNICATION</td>
<td>3-0-3</td>
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<tr>
<td>This course explores key concepts of culture as it relates to verbal and nonverbal communication using a global perspective. The course will address topics such as barriers to communication; dimensions of culture; multiculturalism and culture’s influence on communication. In addition, students will examine cultural and linguistic variation/language difference versus language disorder. Course materials and activities are designed to expand students’ intellectual curiosity, critical thinking, and intercultural competence in the area of speech, language and communication.</td>
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<tr>
<td>CSDS 4151</td>
<td>CLINICAL WRITING FOR THE HEALTH PROFESSIONS</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite: ENGL 1102</td>
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<td>Focuses on clinical writing skills for students in the health professions. Clinical documentation such as diagnostic reports, diagnostic plans, and progress notes will be covered. Emphasis on the ability to clearly and effectively express thoughts and information.</td>
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</tbody>
</table>
CSDS 4152 INDEPENDENT STUDY-RESEARCH  V-V-(1-3)
Prerequisite: permission of instructor or department
Independent study in an area of Communication Sciences and Disorders to pursue research interests and/or complete research projects.

CSDS 4190 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY  3-0-3
Prerequisite: CSDS 3420 and CSDS 3430 and CSDS 3450
Introduction to organization, scope, and requirements of clinical practicum.

CSDS 4210 SEMINAR IN COMMUNICATION SCIENCES AND DISORDERS  3-0-3
Prerequisite: permission of instructor
Contemporary issues, principles, and practices specific to speech-language pathology.

CVIS – Cardiovascular/Interventional Sciences
CVIS 3001 CARDIOVASCULAR INTERVENTIONAL SCIENCES I  6-4-6
Prerequisite: Open to majors in Radiologic Sciences, Cardiovascular/Interventional Science track.
Introduction to field of cardiovascular interventional science, imaging and equipment. This includes diagnostic and treatment methods, application of specific equipment and devices, contrast media, and technology utilized in the diagnosis and treatment of cardiovascular disease.

CVIS 3002 CARDIOVASCULAR INTERVENTIONAL SCIENCES II  6-3-6
Prerequisite: CVIS 3001
Caring for the invasive, percutaneous, cardiovascular patient. Includes monitoring essentials and managing medical emergencies associated with the cardiovascular procedures.

CVIS 3003 PHYSIOLOGIC MONITORING AND RECORDING  4-0-4
Prerequisite: CVIS 3002
The advanced identification and interpretation of ECGs and hemodynamics and cardiac function.

CVIS 3100 INTRODUCTION TO CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION  1-V-1
Prerequisite: CVIS 3001
Corequisite: CVIS 3002
Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

CVIS 4101 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION I  0-V-5
Prerequisite: CVIS 3100, DDTS 3001
Supervised clinical experience in cardiovascular/interventional procedures.

CVIS 4102 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION II  0-V-8
Prerequisite: CVIS 4101
Supervised clinical experience in cardiovascular/interventional procedures.

CVIS 4103 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION III  0-V-9
Prerequisite: CVIS 4102
Supervised clinical experience in cardiovascular/interventional procedures.

CVIS 4200 CARDIOVASCULAR INTERVENTIONAL SCIENCE SYNTHESIS  3-0-3
Prerequisite: CVIS 3003 and CVIS 4102
Discussion of advanced theoretical concepts in cardiovascular interventional technology as they relate to practice.

DDTS – Diagnostic and Therapeutic Sciences (Interprofessional)
DDTS 2001 INTRODUCTION TO DIAGNOSTIC AND THERAPEUTIC SCIENCES  3-1-3
Prerequisite: ENGL 1102
An introduction to the disciplines in DDTS: Medical Laboratory Sciences, Respiratory Therapy, and Radiologic Sciences. Includes an introduction to medical terminology.
DDTS 3001 PATIENT CARE AND INTERACTION 3-2-3
Prerequisite: Open only to majors in Diagnostic and Therapeutic Sciences.
Physical and psychological needs of the family and patient, patient transfer techniques, interaction with the terminally ill, vital signs, administration of injections and pharmaceuticals, IV and tube maintenance, urinary catheterization, acquisition and interpretation of EKG’s, emergency medical situations, infectious disease processes and universal precautions.

DDTS 4010 RESEARCH METHODOLOGIES 3-0-3
Prerequisite: HLPR 2000. Open only to majors in Diagnostic and Therapeutic Sciences or Permission of Instructor. Application of quantitative and qualitative approaches to research issues specific to the Diagnostic and Therapeutic Sciences. Topics covered include development of research questions, study design, methodology, data collection and analysis.

DDTS 4020 MANAGEMENT AND LEADERSHIP 3-2-3
Prerequisite: Open only to majors in Diagnostic and Therapeutic Sciences or Permission of Instructor. This course introduces leadership concepts, focusing on the contemporary theories of leadership and management, health care financing, and total quality concepts. A course component will include a leadership practicum.

ECON – Economics

ECON 1101 SURVEY OF ECONOMICS 3-0-3
Prerequisite: Eligibility for Math 1001, Eligibility for ENGL 1101
Basic concepts of micro- and macroeconomics including supply and demand, economic decision-making, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, and government spending.

ECON 1150 GLOBAL ECONOMIC PROBLEMS 3-0-3
Impact of international trade, international finance, and foreign direct investment on various parts of the world with emphasis on current world economic problems.

ECON 2105 PRINCIPLES OF MACROECONOMICS 3-0-3
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111
Develops methods and reasons for measuring aggregate economic activity in real and nominal terms, models the determination of national income, and considers fiscal and monetary policy alternatives and analyzes their implications. Problems associated with achieving and maintaining aggregate economic stability are discussed.

ECON 2106 PRINCIPLES OF MICROECONOMICS 3-0-3
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111
Comprehensive coverage of individual market functioning, beginning with the concept of scarcity and the economizing problem and moving to supply and demand, is presented. The concept of elasticity is introduced and its measurement and interpretation in a variety of applications is demonstrated. The theories of consumer choice and the production-costs relationship are developed. Individual firm profit maximizing behavior is analyzed and applied to various demand conditions, market structures.

ECON 3050 INTERMEDIATE MACROECONOMICS 3-0-3
Prerequisite: ECON 2105
Analysis of theories of national income determination and the factors affecting employment and price level are presented.

ECON 3060 INTERMEDIATE MICROECONOMICS 3-0-3
Prerequisite: ECON 2106 and either MATH 1950 or MATH 1161
Theory of pricing, distribution, and allocation of resources in a market economy including production and cost theory.

ECON 3100 MULTINATIONAL ECONOMIC ENTERPRISES 3-0-3
Prerequisite: ECON 2105
Evolution of multinational economic enterprises and their effect on jobs and exports/imports in the U.S. and on the economics of less developed countries.
ECON 3200 INTERNATIONAL TRADE 3-0-3
Prerequisite: ECON 2106 or permission of instructor
The economic importance and problems of international trade, including theories of international trade, the
gains from trade, tariffs, and non-tariff barrier to trade, U.S. commercial policy, Economic integration, and
trade policies of developing countries.

ECON 3210 MARKETING 3-0-3
Prerequisite: ECON 2106
Marketing functions, the activities of producers, wholesalers, retailers and other intermediaries, the channels
of distribution, integration of the marketing functions, price policies and government regulation.

ECON 3220 MANAGEMENT 3-0-3
Prerequisite: ECON 2106
Management of organizations with an emphasis on the fundamentals of organizational behavior. Topics include
organizational structure, leadership, communication, motivation, group dynamics, decision-making, planning and
controlling. Business ethics and the roles and functions of managers are integrated throughout all these topics.

ECON 3230 FINANCE 3-0-3
Prerequisite: ECON 2105
Basic concepts and analytical tools of finance in both corporate finance and investments. Topics include risk and
return, financial institutions, efficient markets, valuation theory, capital budgeting, portfolio theory, cost of capital.

ECON 3300 MONEY AND BANKING 3-0-3
Prerequisite: ECON 2105 or permission of instructor
The study of governmental and corporate finance, with emphasis on fiscal and monetary policy, open-market
operations, discount policy, and the functions and problems associated with central banking.

ECON 3400 ECONOMICS OF LABOR 3-0-3
Prerequisite: ECON 2106
Survey of labor economics and labor relations, organization and operation of American trade unionism, collective
bargaining, economics of the labor market, wage theory and income distribution are included.

ECON 3450 ENVIRONMENTAL ECONOMICS 3-0-3
Prerequisite: ECON 2106
Economic analyses of pollution and pollution abatement policies, renewable and non-renewable natural
resources, and equitable and efficient uses of environmental resources.

ECON 3460 ECONOMICS OF IMMIGRATION 3-0-3
Prerequisite: ECON 2105 or ECON 2106
Effects of immigration and immigration policy on labor markets, economic growth, education finance, health
care finance, old-age retirement, enforcement costs, and federal, state, and local government finance. Focus
is primarily on U.S. immigration.

ECON 3470 ECONOMICS OF HEALTH 3-0-3
Prerequisite: ECON 2106
Analysis of the roles and functions of uncertainty, asymmetric information, externalities, institutions, and
government involvement in the health care sector.

ECON 3500 MANAGERIAL ECONOMICS 3-0-3
Prerequisite: ECON 2106
Examination of economic theories used in decision making in the private sector including demand and elasticity,
production and cost theory, pricing policies, linear programming, and capital budgeting.

ECON 3600 MATHEMATICAL ECONOMICS 3-0-3
Prerequisite: ECON 2105 and ECON 3060 and either MATH 1161 or MATH 1950
Examination of selected topics in economic theory using mathematics including development of portions of
consumer and producer theory and static and dynamic models from macro theory and international finance.
ECON 3630 ECONOMIC HISTORY OF THE UNITED STATES 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Growth and development of economics institutions in the United States from the colonial period to the present with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance. Crosslisted as HIST 3630.

ECON 3700 ECONOMETRICS 3-0-3
Prerequisite: ECON 2105 and ECON 2106 and MATH 2200
Applied econometrics including parameter estimation, inference, hypothesis testing, and problems of designing econometric models.

ECON 3800 QUANTITATIVE MARKETING RESEARCH 3-0-3
Prerequisite: ECON 2106 and MATH 2200
Research design, data sources and collection, project and client management, data analysis, and reporting/presentation of empirical results pertaining to quantitative studies of consumer behavior. Requires use of computers for statistical analysis and presentations.

ECON 3950 RESEARCH IN ECONOMICS V-V-(1-3)
Prerequisite: permission of department head, agreement by a faculty member to supervise research
Open to juniors. Uncompensated research to be assigned and directed by an economics faculty member. Students will conduct research using methods appropriate to economics. Student research may include a literature search, field or laboratory observation or experimentation, data collection and analysis, and written and/or oral presentation of results. The research experience and results will be evaluated by a committee of departmental faculty before and upon completion of the research. Credit will vary depending upon the work to be completed. Up to three (3) credit hours may be earned.

ECON 3960 RESEARCH IN INTERNATIONAL ECONOMICS V-V-(1-3)
Prerequisite: permission of department head and supervising faculty member
Open to juniors. Research on a topic developed from international study directed by an economics faculty member according to the terms of a signed agreement among the student, supervising faculty member, and department head. The research experience and results will be evaluated by a committee of departmental faculty before and upon completion of the research.

ECON 4010 SPECIAL TOPICS IN ECONOMICS 3-0-3
Prerequisite: ECON 2105
Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.

ECON 4020 SPECIAL TOPICS IN ECONOMICS 3-0-3
Prerequisite: ECON 2106
Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.

ECON 4100 FINANCIAL ECONOMICS: PORTFOLIO ANALYSIS 3-0-3
Prerequisite: ECON 2105 and ECON 2106 and MATH 2200
Study of the pricing of financial assets such as stocks and bonds, the characteristics of portfolios of financial assets, and the efficiency of financial markets. Practical applications of financial economics principles to the construction and management of portfolios of assets.

ECON 4150 MONEY AND CAPITAL MARKETS 3-0-3
Prerequisite: ECON 2105 and ECON 2106
An examination of the role of money and financial institutions in the exchange process, the Federal Reserve’s monetary policy strategy, and the impact of monetary policy on financial markets and aggregate economic activity.

ECON 4310 INTERNATIONAL FINANCE 3-0-3
Prerequisite: ECON 2105
International monetary relations, different exchange rate systems, the balance of payments disequilibrium, and a survey of major international financial institutions, including IMF and the World Bank.
ECON 4340 INTERNATIONAL ECONOMICS 3-0-3
Prerequisite: ECON 2105
International monetary relations, different exchange rate systems, the balance of payments adjustment, and a survey of major international financial institutions.

ECON 4400 SEMINAR IN THIRD WORLD ECONOMIC DEVELOPMENT 3-0-3
Prerequisite: ECON 2105
Developing areas and their prospects for economic betterment and different theories of underdevelopment including import substitutions and export-led growth. Focus on problems presently facing the third world.

ECON 4410 REGIONAL ECONOMICS 3-0-3
Prerequisite: ECON 2105 and ECON 2106
The economic structure, growth of regions, city locations, industrial locations, the short-run impact of industrial change upon employment, and long-run per capita income between regions.

ECON 4450 COMPARATIVE ECONOMICS 3-0-3
Prerequisite: ECON 2105 or ECON 2106 or permission of instructor
Alternative economics systems as they relate to property rights and incentives, centralization, resource allocation, distribution of income, economic development, and economic transition.

ECON 4451 INDUSTRIAL ORGANIZATION 3-0-3
Prerequisite: ECON 2106 and either MATH 1950 or MATH 1161
Examination of the organization and behavior of firms, including analysis of the structure of intra-firm and inter-firm contracts, strategic output and pricing decisions, and analysis of the structure of industries.

ECON 4460 ECONOMIC ANALYSIS OF THE LAW 3-0-3
Prerequisite: ECON 2106
Efficacy of alternative legal arrangements using microeconomic analysis of the common law emphasizing property, contract, tort and criminal law. Topics include the economic basis for the establishment of property rights, ownership solutions to environmental problems, the efficacy of the contract process, and conditions under which breach of contract may be optimal.

ECON 4500 PUBLIC FINANCE 3-0-3
Prerequisite: ECON 2105 and 2106
Application of economic principles to the study of the role of government. Emphasis on the reasons for and the effects of government intervention in the economy including market failure, public goods and externalities, public choice, and political equilibrium. Focus on taxation, public debt and cost benefit analysis, and some selected areas of public policy such as welfare, defense, and health care.

ECON 4520 INTERNSHIP V-V-(1-12)
Prerequisite: permission of department head
Open to juniors or above. Applied economic setting using nonprofit agencies such as the Chamber of Commerce, as well as financial institutions and international businesses. Supervision by departmental instructors and agency officials. Students may use only three credit hours as part of their Major Field Courses. Open to transient students only with permission of department head.

ECON 4550 PUBLIC CHOICE 3-0-3
Prerequisite or corequisite: ECON 3060 or permission of instructor
Application of economic theory and methodology to the study of non-market (political, governmental and other collective) decision making. Causes and consequences of governmental growth, elections, the behavior of bureaucrats, competition among interest groups, and constitutional economics.

ECON 4900 ECONOMIC METHODS AND SENIOR THESIS 3-0-3
Prerequisite or corequisite: ECON 3050, ECON 3060, and ECON 3700
Should be taken the last term available before graduation. Review of the methods and tools of economic analysis culminating in an extensive research report which will be evaluated by a departmental committee. International economics track requires topic related to international economics. Honors senior theses must meet the standards for presentation at a professional conference or submission to a journal.
ECUG – Early Childhood Education

ECUG 3040 CHILDHOOD DEVELOPMENT FROM PRENATAL PERIOD TO ADOLESCENCE 3-V-3
An overview of developmental processes in the social, emotional, cognitive, and physical contexts from the prenatal period to adolescence. Appropriate methods for diagnosing and evaluating the young child, incorporating an integrated approach to curriculum planning, and family issues will be emphasized. A field experience is required.

ECUG 3060 LANGUAGE ARTS: ORAL LANGUAGE, WRITING, SPELLING AND GRAMMAR 3-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education. Developing foundational language arts skills emphasizing oral language, phonics, spelling, writing, and grammar in primary and elementary grades to build the proficiencies required for reading, written, and oral communication as well as self-expression. A field experience is required.

ECUG 3071 TEACHING CHILDREN’S LITERACY 3-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education, and EDUC 3200, ECUG 3040, and ECUG 3060
Co-Requisite: ECUG 3072
Utilizing the language arts skills gained in earlier courses, children’s literature focuses on authentic literature that connects children to books, teaches the criteria for evaluation and selection of books, the multiple genres of literature, and the value of opening the world of literature to young children. Attention to integration of literature into the classroom and various avenues for responding to literature are covered. A field experience is required.

ECUG 3072 TEACHING OF READING 3-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education
Developmental reading program with emphasis on reading skills, approaches, techniques, materials, and evaluation. A field experience is required.

ECUG 3750 INTERNSHIP I - PRE-STUDENT TEACHING 0-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education and departmental approval. This course must be taken the semester before ECUG 4750 Internship II (Student Teaching).
A field experience is required in an Early Childhood setting.

ECUG 4075 TEACHING OF SOCIAL STUDIES AND SCIENCE 3-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education and EDUC 3200, ECUG 3040, ECUG 3060
Emphasizes the teaching and learning of meaningful social studies and science concepts for children in grades PreK-5. A field experience is required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECU 4085</td>
<td>TEACHING OF MATHEMATICS</td>
<td>3-V-3</td>
<td>Admission to Candidacy in the Department of Childhood and Exceptional Student Education and EDUC 3200, ECUG 3040, ECUG 3060. Co-requisite: ECUG 3750 Emphasizes the teaching and learning of meaningful mathematics to children in grades PreK-5. A field experience is required.</td>
</tr>
<tr>
<td>ECU 4090</td>
<td>CLASSROOM MANAGEMENT</td>
<td>3-V-3</td>
<td>Admission to Candidacy in the Department of Childhood and Exceptional Student Education and EDUC 3200, ECUG 3040, ECUG 3060. Developing, organizing, managing, and modifying classroom procedures and student performance. Emphasis on developing teacher candidates’ abilities to meet the needs of a diverse population including ELL and students with special needs. A field experience is required.</td>
</tr>
<tr>
<td>ECU 4300</td>
<td>LANGUAGE ARTS ASSESSMENT AND MODIFICATION</td>
<td>1-V-3</td>
<td>Admission to Candidacy in the Department of Childhood and Exceptional Student Education, ECUG 3071, ECUG 3072 Corequisite: ECU 3750 An intensive study of assessment, diagnosis, planning, implementation and modification of instruction in order to bridge the achievement gap in Language Arts. A field experience is required.</td>
</tr>
<tr>
<td>ECU 4410</td>
<td>SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION</td>
<td>1-V-1</td>
<td>Admission to Candidacy in the Department of Early Childhood Education and ECU 3040 and ECU 3060, and permission of instructor. Emerging trends in early childhood education: subject announced when course is offered. May be repeated for additional credit when topics change.</td>
</tr>
<tr>
<td>ECU 4420</td>
<td>SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION</td>
<td>2-V-2</td>
<td>Admission to Candidacy in the Department of Early Childhood Education and ECU 3040 and ECU 3060, and permission of instructor. Emerging trends in early childhood education: subject announced when course is offered. May be repeated for additional credit when topics change.</td>
</tr>
<tr>
<td>ECU 4430</td>
<td>SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION</td>
<td>3-V-3</td>
<td>Admission to Candidacy in the Department of Early Childhood Education and ECU 3040 and ECU 3060, and permission of instructor. Emerging trends in early childhood education: subject announced when course is offered. May be repeated for additional credit when topics change.</td>
</tr>
<tr>
<td>ECU 4750</td>
<td>INTERNSHIP II - STUDENT TEACHING</td>
<td>0-V-12</td>
<td>Admission to Candidacy in the Department of Childhood and Exceptional Student Education and completion of all other coursework. Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-5 public school setting.</td>
</tr>
<tr>
<td>EDUC 5750U</td>
<td>EXTENDED FIELD EXPERIENCE</td>
<td>V-V-(3-0)</td>
<td>Satisfactory score(s) on the appropriate GACE II certification test(s), and completion of all coursework in the program of study. This field experience is a targeted experience in Planning, Instruction, and/or Assessment based on the performance assessment data. Completion and submission of a national pedagogical assessment is required (edTPA).</td>
</tr>
</tbody>
</table>

**EDUC - Education**

**EDUC 2110 INVESTIGATING CRITICAL AND CONTEMPORARY ISSUES IN EDUCATION** 3-0-3 Overview of the critical and contemporary issues facing the field of professional educators, including social and political contexts of educational settings in Georgia and the US.

**EDUC 2120 EXPLORING SOCIO-CULTURAL PERSPECTIVES ON DIVERSITY IN**
EDUCATION CONTEXTS 3-0-3
Exploration of the fundamental knowledge for understanding the culture and teaching of children from diverse backgrounds in a variety of educational settings and contexts. This course is approved for study abroad experiences that must include field experiences in schools and/or other educational settings.

EDUC 2130 EXPLORING LEARNING AND TEACHING 3-V-3
An exploration of key aspects of learning and teaching, with direct applications to the enhancement of learning in a variety of educational settings and contexts. A directed field experience is required.

EDUC 3100 TECHNOLOGY APPLICATIONS FOR TEACHERS 2-0-2
Current and engaging technologies available to P-12 teachers focusing on best-practice educational applications. Combines theoretical and skills-based components. LiveText data management portfolio software is required.

EDUC 3200 CURRICULUM, INSTRUCTION, AND ASSESSMENT 3-0-3
Prerequisite: Admission into candidacy in the College of Education. Overview of the best practices associated with the design of curriculum, the planning and implementation of instruction, and the skills necessary to design authentic assessment materials.

EDUC 3240 LITERATURE FOR CHILDREN AND ADOLESCENTS 3-V-3
Survey course that introduces the range of literature appropriate for children and adolescents, latest trends, use of literature for dealing with social issues.

EDUC 3250 EDUCATIONAL POLICY AND PROFESSIONAL STANDARDS FOR TEACHERS 2-0-2
Prerequisite: Admission into candidacy in the College of Education. Study, analysis, and application of educational policies and standards that govern teachers’ professional and personal behavior including compliance with employment and contractual obligations, responsibilities to address student needs and diversity, accountability for curriculum, instruction, assessment, and duty to maintain integrity and security in the school environment.

EDUC 3300 EDUCATING STUDENTS WITH DISABILITIES IN THE GENERAL EDUCATION CLASSROOM 3-0-3
Survey of specific disabilities and the impact they have on learning for the P-12 student. Strategies for academic modification, social skill development, and behavior management as well as federal and state legislation will be presented. Meets certification requirements for H.B. 671.

EDUC 3750 COMMUNITY INTERNSHIP I 0-V-3
Field experience working with children, youth or families in community setting.

EDUC 4500 WORKING WITH FAMILIES 3-V-4
Knowledge and skills necessary to form partnerships with families and the community to enhance care and education of children and youth. Field Experience Required.

EDUC 4750 COMMUNITY INTERNSHIP II 0-V-12
Prerequisite: EDUC 3750
Field experience working in a non-profit community setting.

EDUC 5450U ECONOMICS EDUCATION FOR TEACHERS 3-0-3
The study of basic microeconomic and macroeconomic concepts, methodology, resources for incorporating economics in the school curriculum, and teaching material development at the appropriate grade levels.

EDUC 5455U STUDY ABROAD IN TEACHER EDUCATION 3-V-3
Prerequisite: Admission to candidacy in the College of Education and permission of the instructor. This course will prepare teacher candidates for travel and study abroad by engaging them in the study of the culture, cultural transmission to the young, the education system, and the role of the teacher in the designated country in which the study abroad field experience will occur. Candidates will travel to the country to engage in either supervised research or teaching activities to learn more about the instructional theories, philosophies, and practices that support the educational processes for children and adolescents who are comparable to K-12 students in the United States. A field experience is required.
ENGL – English

ENGL 0999 SUPPORT FOR ENGLISH COMPOSITION 1-0-1
Prerequisite: English Placement Index of less than 4449
Corequisite: English 1101 or English 1102
This course is intended to provide corequisite support for students requiring remediation in English or reading while they are enrolled in English Composition.

ENGL 1101 COMPOSITION I 3-0-3
Prerequisite: English Placement Index of 4449 or higher
Corequisite: ENGL 0999 for EPI less than 4449
A composition course focusing on skills required for effective writing in a variety of contexts, with emphasis on exposition, analysis, and argumentation, and also including introductory use of a variety of research skills.

ENGL 1102 COMPOSITION II 3-0-3
Prerequisite: ENGL 1101 with a grade of C or better and English Placement Index of 4449 or higher
Corequisite: ENGL 0999 for EPI less than 4449
A composition course that develops writing skills beyond the levels of proficiency required by ENGL 1101, that emphasizes interpretation and evaluation, and that incorporates a variety of more advanced research methods.

ENGL 1102H HONORS COMPOSITION II 3-0-3
Advanced reading of and writing about literary texts; fulfillment of all ENGL 1102 requirements at a higher level of achievement. Student must have any one of the following: admission to Armstrong Honors Program; a score of three or above on AP exam; an NCTE writing award; recommendation of English instructor and approval of department head with a minimum final grade of B in ENGL 1101.

ENGL 2000 ETHICS AND VALUES IN LITERATURE 2-0-2
Prerequisite: ENGL 1102 or ENGL 1102H
Examination of ethical issues and human values in the context of selected literary works. Topics may include moral relativism and absolutism; ethical encounters with suffering; meanings and descriptions of evil; models of character and virtue; the role and relation of motivation and behavior to morality.

ENGL 2050 AFRICA AND THE DIASPORA 3-0-3
Broad interdisciplinary inquiry into creative literature and social criticism as well as other forms of cultural expression of Africa, Caribbean, black U.S. and Europe. Interrogation of such issues as effects of migration and transculturation; dissent from traditional cultural formations in terms of gender; identity formations according to national, traditional, global values.

ENGL 2100 LITERATURE AND HUMANITIES 3-0-3
Prerequisite: ENGL 1102 or ENGL 1102H
Examination of literature as an expression of the humanities through study of several complete works from at least two historical periods, two genres, and two cultures/countries. Includes an essay or project involving documentation.

ENGL 2100H HONORS LITERATURE AND HUMANITIES 3-0-3
Prerequisite: acceptance in honors program
Advanced reading of and writing about literary texts; fulfillment of all ENGL 2100 requirements at a higher level of achievement. Recommendation of English instructor and approval of department head based on a minimum final grade of B in ENGL 1102 or ENGL 1102H.

ENGL 2121 BRITISH LITERATURE I 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of important works of British literature from the Old English period through the neoclassical age.

ENGL 2122 BRITISH LITERATURE II 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of important works of British literature from the romantic era to the present.

ENGL 2131 AMERICAN LITERATURE I 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of American literature from the pre-colonial age to the mid-nineteenth century.
ENGL 2132 AMERICAN LITERATURE II 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of American literature from the mid-nineteenth century to the present.

ENGL 3010 INTRODUCTION TO LITERARY STUDIES 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Vocabulary and approaches of modern literary criticism, reading and interpretation of literary texts, and the tools of literary research and writing.

ENGL 3020 INTRODUCTION TO COMPOSITION STUDIES 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Application of theories to the teaching of composition. Devising assignments, conducting class sessions, writing essays, and responding to academic writing.

ENGL 3141 BIBLE AS LITERATURE 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
An examination of the Bible from the perspective of literary analysis, focusing on the Bible’s historical, generic, and narrative contexts as well as its subsequent influence on Western literature.

ENGL 3150 MYTHOLOGY 3-0-3
Prerequisite: ENGL 2100
An introduction to the major characters, plots, and themes of mythological narratives.

ENGL 3300 DRAMATIC LITERATURE 3-0-3
Prerequisite: ENGL 2100
A survey of dramatic literature from its origins to the present, addressing the genre’s unique characteristics, the development of its techniques, the range of its uses and concerns, and its major literary and theatrical practitioners.

ENGL 3350 INTRODUCTION TO AFRICAN AMERICAN LITERATURE 3-0-3
Prerequisite: ENGL 2100
Survey of the rise of African American literature. Broad inquiry into literary and social movements reflecting African American experience from the 18th century to the present.

ENGL 3700 INTRODUCTION TO COMMUNICATIONS 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Survey of the profession, designed to familiarize majors with the history of communications as a profession, to introduce them to the number and variety of careers available to communicators, and to suggest methods of career planning.

ENGL 3710 FREELANCE WRITING AND PUBLICATION 3-0-3
Prerequisite: ENGL 2100
A study of the scope of freelance writing including review of industry terminology, identification of commercial opportunities for publication, and preparation of commercially viable manuscripts for publication in newspapers and magazines.

ENGL 3720 BUSINESS AND TECHNICAL COMMUNICATION 3-0-3
Prerequisite: ENGL 1102
Reporting of technical information in descriptions, instructions, memos, reports, and proposals. Emphasizes writing clear, persuasive prose and giving effective oral presentations.

ENGL 3730 INTRODUCTION TO CREATIVE WRITING 3-0-3
Prerequisite: ENGL 2100
Introduction to various genres of creative writing, including prose, poetry, and drama. Emphasis on genre-specific features of creative writing and vocabulary to analyze and critique work from a writer’s perspective.

ENGL 3800 ADVANCED COMPOSITION 3-0-3
Prerequisite: ENGL 2100 or permission of department head.
Advanced study of expository and argumentative techniques, grammar and style. Cross-listed as LING 3800.
ENGL 4740 CREATIVE WRITING (POETRY) 3-0-3
Prerequisite: ENGL 3730
Workshop format. Critique of poems by other students and professor through written statement and class discussion.

ENGL 4750 CREATIVE WRITING (FICTION) 3-0-3
Prerequisite: ENGL 3730
Workshop format. Critique of stories by other students and professor through written statement and class discussion.

ENGL 4760 SCRIPTWRITING 3-0-3
Prerequisite: ENGL 3730
Workshop format. The writing and critiquing of scripts for television, film or theater.

ENGL 4880 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission to College of Education, completion of all required content and pedagogy course work
Supervised field-based teaching experience providing the opportunity to use knowledge and skills in a grade 6-12 public school setting. For students in the B.A. program in English with teacher certification.

ENGL 4900, -10 INDEPENDENT STUDY V-V-3
Prerequisite: ENGL 2100 or permission of department head
Open to seniors. To be determined by student and professor. Available to transient students only with approval of the department head.

ENGL 4990 INTERNSHIP V-0-(1-9)
Prerequisite: 2.5 grade point average; supervisory staff member; recommendation of the department head.
Open to juniors and above. Offered by special arrangement. Repeatable up to a maximum of nine credit hours.
Off-campus study, work and/or research, jointly supervised by sponsoring institution and staff member. Nine hours credit requires forty hours a week at sponsoring institution, 6 hours credit requires twenty-five hours, 3 hours credit requires fifteen hours.

ENGL 5000U SPECIAL TOPICS 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Subject announced when course offered. May be repeated for additional credit when topics change.

ENGL 5200U POSTCOLONIAL LITERATURE 3-0-3
Prerequisite: ENGL 2100
Literature and theory that emphasizes the interactions between European nations and the societies they colonized.

ENGL 5215U LITERATURE OF THE NON-WESTERN WORLD 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Explorations of literatures outside or at the margin of Western literary traditions. The course is topical, and not limited by specific cultural, generic, or linguistic boundaries. Sample topics might include Tri-Continentalism, The Novel in World Literature, Africa and the Atlantic Rim, Postcolonialism, The Epic Tradition, The Trickster in World Literature, or the Classic Chinese Novel. This course may be repeated with different topics.

ENGL 5225U LITERATURE OF THE WESTERN WORLD 3-0-3
Prerequisite: ENGL 2100 or permission of department head
An examination of representations of the environment in literature and theory. Readings in ecological literary criticism as well as fiction and literary nonfiction from various world areas and historical periods.

ENGL 5315U 17TH AND 18TH CENTURY AMERICAN LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
An examination of the responses of American novelists, poets, and prose writers to the issues of these centuries, with attention to characteristic themes, genres, and stylistic features.
ENGL 5325U 19TH CENTURY AMERICAN LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
An examination of the responses of American novelists, poets, and prose writers to the issues of this century, with attention to characteristic themes, genres, and stylistic features.

ENGL 5335U 20TH CENTURY AMERICAN LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
An examination of the responses of American novelists, poets, and prose writers to the issues of this century, with attention to characteristic themes, genres, and stylistic features.

ENGL 5340U LITERATURE BY WOMEN 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Exploration of literature written by women within its social, historical, and theoretical contexts. Topics such as renaissance and medieval women writers, nineteenth century novels by women, feminist theory and criticism, contemporary poetry by women.

ENGL 5350U TOPICS IN AFRICAN AMERICAN LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Thematic approach to African American literature, with emphasis on historical, philosophical, and/or cultural contexts. Topics such as religion, migration, the oral tradition, autobiography, popular culture, rhetoric, civil rights, slavery, sexuality, or literary theory. May be repeated for additional credit when topics change.

ENGL 5355U BLACK WOMEN WRITERS 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Writing by Black women. Topics may include race, class, and gender; history and society; literary and social criticism; political discourse; or Black feminist theory.

ENGL 5380U SOUTHERN LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Southern literature in its distinctive social and aesthetic contexts.

ENGL 5415U THE NOVEL 3-0-3
Prerequisite: ENGL 2100 or permission of department head
An exploration of the origins and development of the novel as a distinct literary form, examining the aesthetic, philosophical, and social concerns that inform selected works from the eighteenth, nineteenth, and twentieth centuries. The course may focus primarily on the American or the British novel, or it may integrate the two through a specific thematic focus.

ENGL 5425U AMERICAN/BRITISH POETRY 3-0-3
Prerequisite: ENGL 2100 or permission of department head
American and/or British poetry in the context of technological developments, philosophical movements, and literary currents. Exploration of forms and themes with emphasis on prosody and interpretation.

ENGL 5435U TOPICS IN DRAMA 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Study of a selected topic in English, American, or World dramatic literature. May be repeated for additional credit when topics change.

ENGL 5440U EARLY ENGLISH LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as LING 5440U.

ENGL 5455U SHAKESPEARE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A selection of Shakespeare’s tragedies, comedies, and history plays illustrating representative themes and literary techniques of the dramatist, as well as his links to contemporary issues of his day.
ENGL 5465U CHAUCER 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Chaucer’s two masterpieces, *The Canterbury Tales* and *Troilus and Criseyde*, and minor poetry. Includes in-depth study of Chaucer's culture, context, and language. Crosslisted as LING 5465U.

ENGL 5480U LITERATURE OF THE ENGLISH RENAISSANCE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
A selection of representative literary works from the period 1485–1689. Typical topics include the rise of the sonnet, the Metaphysical and Neoclassical poetic schools, the growth of English prose, and non-Shakespearean drama.

ENGL 5485U MILTON 3-0-3
Prerequisite: ENGL 2100 or permission of department head

ENGL 5500U 18TH CENTURY BRITISH POETRY AND PROSE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
British poetry and prose from 1690 to 1784, with an emphasis on the philosophic and aesthetic concerns of the age. Authors include but are not limited to Swift, Pope, Johnson, and Fielding.

ENGL 5525U 19TH CENTURY BRITISH POETRY AND PROSE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
The literary culture of the nineteenth century, including examinations of the works and contexts of the major figures in Romantic and Victorian literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. Exploration of the conflicts between science and religion, faith in “progress” and the growth of industrialism, the rights of the individual and of society, and the role of the artist.

ENGL 5535U 20TH CENTURY BRITISH POETRY AND PROSE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
The literary culture of the twentieth century, including examinations of the works and contexts of the major figures in modern and contemporary literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. These writers will be examined within the context of continental developments, the World Wars, and the post-war period. The literary traditions and cultural movements of the century will be explored.

ENGL 5550U CONTEMPORARY LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Fiction and/or poetry since World War II as it relates to literary traditions and cultural movements; topics possibly including postmodernist fiction, ethnic writers, confessional poetry.

ENGL 5590U POPULAR LITERATURE 3-0-3
Prerequisite: ENGL 2100
Focus on popular literary genres, such as science fiction, horror, Arthurian legend, and detective fiction. Topics vary.

ENGL 5610U MAJOR AUTHOR 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Subject announced when course offered. May be repeated for additional credit when topics change.

ENGL 5620U DRAMA IN THEORY AND PRACTICE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Introduction to distinct traditions of criticism, theory, and practice in dramatic literature and theatrical performance. Significant figures, models, and currents, including the key concepts, philosophical assumptions, historical and ideological contexts.

ENGL 5630U MODERN AND CONTEMPORARY DRAMA 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Exploration of drama in its social, historical, and theoretical contexts from 1880 to the present.
ENGL 5700U PROMOTIONAL WRITING 3-0-3
Prerequisite: ENGL 3720 or permission of department head
Theory and practice of the techniques of writing for public relations, advertising, political campaigns, fundraising, and marketing.

ENGL 5710U WRITING FOR THE NONPROFIT SECTOR 3-V-3
Prerequisite: ENGL 3720
Techniques for writing for local and national nonprofit organizations. Possible service learning component.

ENGL 5730U RHETORIC 3-0-3
Prerequisite: ENGL 2100 or permission of department head
History of rhetoric from Aristotle to the present with emphasis on rhetorical analysis of literature and other forms of discourse.

ENGL 5740U TECHNICAL EDITING 3-0-3
Prerequisite: ENGL 3720
Techniques for editing technical publications including all levels of edit, document management, and collaboration with writers.

ENGL 5750U PUBLICATION DESIGN 3-0-3
Prerequisite: ENGL 3720
Techniques for preparing documents from development to publication.

ENGL 5760U LITERARY NONFICTION 3-0-3
Prerequisite: ENGL 2100 or permission of department head
History of the personal essay from Greek philosophers through contemporary authors. Reading and writing journals, letters, memoirs, biographies, editorials, and essays about travel, nature, history, current events, and other topics of “fact”. Crossing genres by employing authors’ private voices and other creative techniques in developing informative, persuasive, entertaining, scholarly, public inquiry.

ENGL 5770U ADVANCED CREATIVE WRITING, POETRY 3-0-3
Prerequisite: ENGL 4740
The creation of accurate images, the making of successful figures of speech, including simile, metaphor, personification, synecdoche, metonymy, etc. Experimentation with different poetic forms. Workshop format.

ENGL 5780U ADVANCED CREATIVE WRITING, FICTION 3-0-3
Prerequisite: ENGL 4750
The creation of compelling plot lines and complex characterization; the meaningful integration of setting into storyline; greater experimentation with various points of view. Workshop format.

ENGL 5800U ADVANCED GRAMMAR 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as LING 5800U.

ENGL 5815U LITERARY THEORY 3-0-3
Prerequisite: ENGL 3010 (senior standing strongly recommended)
Introduction to the major currents and models in modern critical and literary theory, their basic concepts, philosophical assumptions, historical and ideological contexts, and applications.

ENGL 5820U HISTORY OF THE ENGLISH LANGUAGE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to modern English. Phonetitc, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as LING 5820U.

ENGL 5840U CONTENT AND METHODS ENGLISH 3-2-3
Prerequisite: Admission to the College of Education, EDUC 3200, EDUC 3500
Methods, content, and materials focusing on the teaching of English. Directed field experience required.
ENGL 5990U SENIOR CAPSTONE SEMINAR  3-0-3
Capstone course required of English majors. Engages students in advanced critical analysis. Requires students to reflect on their process of study. Preparation, revision, and oral presentation of an original research project. Must be taken within 30 hours of graduation.

ENGR – Engineering

ENGR 1100 INTRODUCTION TO ENGINEERING  3-0-3
Prerequisite: MATH 1111 or a score of at least 550 on the mathematics portion of the SAT
Orientation to the engineering process from problem formulation to the evolution of creative design. Surveys of the various fields of engineering, professional ethics, problem solving, graphical communication, fundamental concepts of engineering, and the use of software applications for technical reports, computing, and engineering design.

ENGR 1112 INTRODUCTION TO SCIENTIFIC MODELING AND SIMULATION  3-0-3
Prerequisite: MATH 1001 or MATH 1111 or MATH 1113 or MATH 1161
An introduction to the problems and solution methodologies in computational scientific modeling and computation. Computational tools such as a computer algebra system, visualization software and Internet resources will be used to explore and solve mathematical problems drawn from various fields of science and engineering.

ENGR 1170 ENGINEERING GRAPHICS  2-3-3
Prerequisite: MATH 1113
Introduction to engineering graphics and visualization including sketching, line drawing, simple wire-frame and solid modeling. Development and interpretation of drawings and specifications for product realization.

ENGR 1171 COMPUTING IN MATLAB  0-3-1
Prerequisite: CSCI 1301
Introductory computing in MATLAB for students with a solid introductory computing background needing to demonstrate proficiency in the MATLAB language.

ENGR 1371 COMPUTING FOR ENGINEERS  2-3-3
Prerequisite or co-requisite: MATH 1113
Foundations of computing with an introduction to design and analysis of algorithm and an introduction to design and construction of programs for engineering problem-solving.

ENGR 2000 INTRODUCTION TO ENGINEERING MATERIALS  3-0-3
Prerequisite: CHEM 1211 and CHEM 1211L and PHYS 2211K
The structure, property, processing, and performance relationships of engineering materials. Materials selection is treated as part of engineering design.

ENGR 2001 STATICS  3-0-3
Prerequisite: PHYS 2211K
Pre or corequisite: MATH 2083
Forces and moments; equilibrium in two and three dimensions; multforce members; friction; trusses; centroids; area moment of inertia; shear and bending moment of beams; and virtual work.

ENGR 2010 COMPUTATIONAL MODELING (COMPUTING TECHNIQUES)  3-0-3
Prerequisite: MATH 2072 and PHYS 2211K and either ENGR 1171 or ENGR 1371 or CSCI 1371
Fundamentals of numerical methods and development of programming techniques for solving engineering problems via computers.

ENGR 2025 INTRODUCTION TO SIGNAL PROCESSING  3-3-4
Prerequisite: MATH 2072 and either ENGR 1171 or ENGR 1371 or CSCI 1301 or CSCI 1371
Introduction to signal processing for discrete-time and continuous-time signals, filtering, frequency response, Fourier transform, Z transform. Laboratory emphasizes computer-based signal processing.
ENGR 2030 INTRODUCTION TO COMPUTER ENGINEERING  3-0-3
Prerequisite: CSCI 1060 or CSCI 1301 or ENGR 1371 or CSCI 1371
Computer systems and digital design principles. Architectural concepts, software, Boolean algebra, number
systems, combinational datapath elements, sequential logic, storage elements. Design of DRAM control and
I/O bus. Cross-listed with PHYS 2030.

ENGR 2031 DIGITAL DESIGN LABORATORY  1-3-2
Prerequisite: ENGR 2030
Design and implementation of digital systems, including a team design project. CAD tools, project design
methodologies, logic synthesis, and assembly language programming. Cross-listed with PHYS 2031.

ENGR 2110 CREATIVE DECISIONS AND DESIGN  2-3-3
Prerequisite: ENGR 1170
Prerequisite or corequisite: ENGR 2001
Fundamental techniques for creating, analyzing, synthesizing, and implementing design solutions to open ended
problems with flexibility, adaptability, and creativity through team and individual efforts.

ENGR 2202 DYNAMICS 3-0-3
Prerequisite: ENGR 2001
Kinematics and dynamics of particles and rigid bodies in one, two, and three dimensions. Work-energy and
impulse momentum concepts.

ENGR 2990 TOPICS IN ENGINEERING  V-V-(1-4)
Prerequisite: announced with the topic
Special topics at freshman and sophomore level of current interest in engineering.

ENGR 3000 CIVIL ENGINEERING SYSTEMS  3-0-3
Prerequisite: MATH 2083
Infrastructure viewed from a systems perspective, analytical approaches and modeling of civil engineered
facilities, sustainability, engineering economy applications.

ENGR 3100 CIRCUIT ANALYSIS  3-0-3
Prerequisite: PHYS 2212K
Prerequisite or corequisite: MATH 3411
Basic concepts of DC and AC circuit theory and analysis.

ENGR 3111 ELECTRONICS I  4-0-4
Prerequisite: ENGR 2030 and ENGR 3100
Basic concepts of microelectronic materials, devices, and circuits.

ENGR 3220 MECHANICS OF MATERIALS  3-0-3
Prerequisite: ENGR 2020 or ENGR 2201
Stress and strain, axially loaded members, torsion of circular sections, bending of beams, transformation of
stress and strain, thin-walled pressure vessels and column buckling.

ENGR 3230 FLUID MECHANICS  3-0-3
Prerequisite: ENGR 2020 or ENGR 2202
The fundamentals of fluid mechanics. Topics include: fluid statics, control-volume analysis, the Navier-Stokes
equations, similitude, viscous, inviscid and turbulent flows, boundary layers.

ENGR 3320 HEAT TRANSFER  3-0-3
Prerequisite: ENGR 3230 and MATH 3411
Introduction to the study of heat transfer, transport coefficients, steady state conduction, transient conduction,
radiative heat transfer, and forced and natural convection.

ENGR 3322 FUNDAMENTALS OF THERMODYNAMICS  3-0-3
Prerequisite: CHEM 1211 and CHEM 1211L and MATH 2072 and PHYS 2211K and either CSCI 1301 or
ENGR 1371 or CSCI 1371
Introduction to thermodynamics. Thermodynamic properties, energy and mass conservation, entropy and the
ENGR 3700 ENGINEERING ECONOMIC ANALYSIS  2-0-2
Prerequisite: MATH 1161
Fundamental principles of basic techniques of economic analysis of engineering projects including economic measure of effectiveness; time value of money, cost estimation, break-even and replacement analysis.

ENGR 3710 CIRCUITS AND ELECTRONICS  3-0-3
Prerequisite: PHYS 2212K
An introduction to electric circuit elements and electronic devices, and a study of circuits containing such devices. Both analog and digital systems are considered.

ENGR 3770 STATISTICS AND APPLICATIONS  3-0-3
Prerequisite: MATH 2083
Introduction to probability, probability distributions, point estimation, confidence intervals, hypothesis testing, linear regression, and analysis of variance.

ENGR 3960 ENGINEERING INTERNSHIP V-V-(1-4)
Prerequisite: permission of instructor or program coordinator
Practical study experiences in a variety of engineering environments under the direction of faculty and appropriate off-campus supervisors.

ENGR 4990 TOPICS IN ENGINEERING V-V-(1-4)
Prerequisite: announced with the topic
Special topics at junior and senior level of current interest in engineering.

ENGR 4999 INDEPENDENT STUDY V-V-(1-4)
Prerequisite: permission of the instructor

ENST – Environmental Studies
ENST 4000 INTERNSHIP IN ENVIRONMENTAL STUDIES V-V-3
First-hand practical experience in a professional-level capacity for a government agency, research lab, planning group, advocacy organization, or other groups that solve problems and develop policies pertaining to the environment and sustainability.

ESOL – English as a Second Language
ESOL 4010 APPLIED LINGUISTICS 3-0-3
A study of the nature, structure, and diversity of language, emphasizing the phonological, morphological, syntactic, and semantic patterns of English in comparison and contrast with features of other selected languages. The course will explore the principles of linguistic systems and major theorists and schools of linguistic thought. Language acquisition theories as related to language development and learning and their implications for instruction will also be examined within the cultural framework of working with communities of non-native English speakers.

ETHC – Ethics
ETHC 2000 INTERDISCIPLINARY ETHICS AND VALUES  (2-3)-0-(2-3)
Prerequisite: ENGL 1101
An interdisciplinary examination of the relation between ethical theory and moral practice in specific areas of our society. This course involves several modules taught by different professors: the first philosophical framework module will provide an explanation and analysis of the principal ethical theories of the western world and subsequent modules will focus on moral issues and case studies in specified areas.

EURO – European Studies
EURO 2000 INTRODUCTION TO THE EUROPEAN UNION  3-0-3
Prerequisite: ENGL 1101 and either HIST 1111 or HIST 1112
An interdisciplinary course that focuses on the creation and functioning of the European Union and its impact on the United States and the rest of the world.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>EURO 3990</td>
<td>TOPICS IN EUROPEAN UNION STUDIES</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td></td>
<td>Selected topics on issues in European Union studies or in</td>
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<td></td>
<td>European Union relations with the outside world. May be repeated</td>
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<td>for credit as topics vary.</td>
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<tr>
<td>EURO 4130</td>
<td>EU LAW AND LEGAL SYSTEMS</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<tr>
<td></td>
<td>A study of EU legal institutions and processes in the context</td>
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<td></td>
<td>of international law and in comparison to the United States.</td>
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<tr>
<td>EURO 4160</td>
<td>FEDERALISM AND MULTILEVEL GOVERNANCE IN THE EU</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<tr>
<td></td>
<td>An examination of multilevel governance and policymaking in the</td>
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<td>European Union in comparison with the United States and other</td>
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<td>federal systems.</td>
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<td>EURO 4230</td>
<td>DOING BUSINESS IN THE EU</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td>A study of the challenges of doing business in the EU compared</td>
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<td>to the United States. Focuses on institutions and rules which</td>
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<td>impact the business environment for domestic and international</td>
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<td>firms, and on how political decisions affect the business</td>
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<td>environment.</td>
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<td>EURO 4260</td>
<td>EUROPEAN MONETARY UNION</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td></td>
<td>A examination of the history and evolution of European Economic</td>
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<td>and Monetary Union and its impact on the United States and the</td>
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<td>global economy.</td>
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<tr>
<td>EURO 4330</td>
<td>EU SCIENCE AND TECHNOLOGY POLICY</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td></td>
<td>An examination of EU science and technology policy in</td>
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<td>comparison with the United States. Examines how governments</td>
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<td>can encourage scientific and technological innovation, and</td>
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<td>whether government can (or should) try to limit or control</td>
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<td>technological innovation.</td>
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<td>EURO 4430</td>
<td>EU ENVIRONMENTAL POLICY</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td></td>
<td>A survey of critical issues in EU environmental policy,</td>
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<td>including key environmental problems, the challenges of</td>
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<td>making and implementing environmental policy in the EU’s</td>
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<td>multilevel governance system, and future prospects for EU</td>
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<td>environmental regulation.</td>
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<td>EURO 4500</td>
<td>SEMINAR IN EUROPEAN UNION STUDIES</td>
<td>3-0-3</td>
<td>Admission to</td>
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<td>The capstone seminar for the European Union Certificate</td>
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<td>program. Topics vary.</td>
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<td>EURO 4530</td>
<td>EUROPEAN SOCIAL POLICY</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<tr>
<td></td>
<td>An examination of social policy and current social policy</td>
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<td>issues and arrangements in Europe and the EU.</td>
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<tr>
<td>EURO 4630</td>
<td>COMMUNICATIONS AND MEDIA</td>
<td>3-0-3</td>
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<td>An examination of communications and the media in the EU in</td>
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<td>comparison with the United States. Examines media law, policies,</td>
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<td>and practices in the realms of broadcasting, voice telephony,</td>
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<td>the Internet and social media.</td>
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<td>EURO 4730</td>
<td>EU FOREIGN POLICY</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td>An examination of the foreign policy of the EU. Examines how</td>
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<td>EU foreign policy is made, the intersection of national and EU</td>
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<td>foreign policies, and EU policies regarding key issues and</td>
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<td>countries/areas of the world.</td>
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<td>EURO 4760</td>
<td>US-EU RELATIONS</td>
<td>3-0-3</td>
<td>EURO 2000</td>
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<td>An examination of relations between the United States and the</td>
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<td>European Union, including US-EU cooperation on global issues</td>
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<td>and the future of transatlantic relations in a changing world.</td>
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</tbody>
</table>
EURO 4830 EU STUDIES CAPSTONE COURSE 3-0-3
Prerequisite: EURO 2000
A capstone course for students in the EU Studies certificate program. Explores various selected topics in a way that allow students to synthesize their knowledge of the EU.

FILM – Film
FILM 3400 HISTORY OF FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
History and development of cinema from the silent period to the present time. Crosslisted as THEA 3400.

FILM 3500 INTRODUCTION TO FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Emphasis on critical appreciation of film as an art form. Crosslisted as JOUR 3500 and THEA 3500.

FILM 5010U TOPICS IN FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Subject announced when course offered. For example, film genres, auteurs, critical approaches, and individual historical periods. May be repeated for additional credit when topics change.

FILM 5025U POPULAR CULTURE THEORY AND CRITICISM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression, such as film, television, popular literature, magazines, and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism, and cultural studies.

FILM 5030U TELEVISION THEORY AND CRITICISM 3-0-3
Prerequisite: ENGL 2100
Critical examination of various aspects of television, such as genres, social implications, historical significance, and modes of production.

FILM 5035U FILM THEORY AND CRITICISM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Introduction to the major schools of film theory and criticism and their application to selected film texts.

FILM 5040U WOMEN AND FILM 3-0-3
Prerequisite: English 2100 or Permission of Department Head
Representations of women in film; may include issues such as feminist film theory and criticism; presentation of female characters in major film genres and movements; women directors, screenwriters, and actors; and women’s independent cinema.

FILM 5510U FILM AND LITERATURE 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Relationship between film and literature with special emphasis on the adaptation of literature into film.

FOUN – Education Foundations
FOUN 5010U EDUCATIONAL TESTS AND MEASUREMENT 3-0-3
Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

FREN – French
FREN 1001 ELEMENTARY FRENCH I 3-0-3
Prerequisite: eligibility for ENGL 1101
Development of speaking, listening, reading, and writing skills, integrated within the introduction to culture and civilization of the French-speaking world. This course is intended for students with little or no previous knowledge of French. Course taught in French.
COURSE DESCRIPTIONS

FREN 1002 ELEMENTARY FRENCH II 3-0-3
Prerequisite: eligibility for ENGL 1101 and FREN 1001
Continuation of the development of speaking, listening, reading, and writing skills integrated within the study of culture and civilization of the French-speaking world. Course taught in French.

FREN 2001 INTERMEDIATE FRENCH I 3-0-3
Prerequisite: eligibility for ENGL 1101 and FREN 1002
Study of themes and functions that reflect contemporary language use, with an emphasis on speaking, listening, writing and reading skills, within the frame of contemporary Francophone culture. Course taught in French.

FREN 2002 INTERMEDIATE FRENCH II 3-0-3
Prerequisite: eligibility for ENGL 1101 and FREN 2001
Continuation of FREN 2001 with the study of themes and functions that further reflect contemporary language use, with an emphasis on speaking, listening, writing and reading skills, within the frame of contemporary Francophone culture. Course taught in French.

FREN 2010 INTERMEDIATE CONVERSATION 3-0-3
A study of conversational techniques, integrating grammatical structures and appropriate vocabulary. Emphasis is given to practicing spoken French and to using audio programs to increase listening comprehension. Attention is also given to pronunciation and phonetics.

FREN 3001 FRENCH CONVERSATION 3-0-3
Prerequisite: FREN 2001 or Permission of Instructor
A study of conversational techniques, integrating grammatical structures and appropriate vocabulary. Emphasis is given to practicing spoken French and to using audio programs to increase listening comprehension. Attention is also given to pronunciations and phonetics.

FREN 3002 FRENCH COMPOSITION 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
A thorough review and expansion of the main grammatical concepts, rules and applications studied in FREN 1001, 1002, 2001, and 2002 courses. A practical application of grammar study through translations (English to French), formal/informal writing, listening and speaking, and refinement of self-editing skills.

FREN 3100 FRENCH CIVILIZATION I 3-0-3
Prerequisite: FREN 3010 and FREN 3020
Survey of the culture and civilization of France. History, geography, politics, the arts and daily life in France from the middle ages to the French Revolution.

FREN 3150 FRENCH CULTURE AND CIVILIZATION 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
A survey of the historical, sociological, philosophical, literary, and artistic developments of France and neighboring French-speaking European countries up to modern times.

FREN 3160 FRANCOPHONE CULTURES AND CIVILIZATION 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
A survey of the historical, sociological, philosophical, literary, and artistic developments of the Francophone world.

FREN 3201 APPROACHES TO LITERATURE 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
The development of students' reading and writing skills along with knowledge of the major literary genres and literary thought. Texts are from traditional and contemporary sources (selections of prose, poetry, and theater).

FREN 3250 SURVEY OF FRENCH LITERATURE (MIDDLE AGES TO PRESENT) 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
Selected major literary works, authors, and literary movements of France from the Middle Ages to the present.

FREN 3260 SURVEY OF FRANCOPHONE LITERATURE 3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
Selected major literary works, authors, and literary movements of the Francophone world.
FREN 3300 FRENCH PHONETICS AND PHONOLOGY  
3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
Study of phonetic principles and their applications.

FREN 3400 CULTURE, BUSINESS, AND SOCIETY IN THE FRENCH-SPEAKING WORLD  
3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
A study of culture as it relates to business practices in the French speaking world. A variety of authentic media sources will be used. Emphasis will be put on listening comprehension and translation as well as on business correspondence.

FREN 4001 ADVANCED FRENCH CONVERSATION  
3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
An advanced study of spoken and written French, with emphasis on oral and written communication strategies, including the interpersonal and presentational modes, for communication in Francophone contexts. Attention is given to the grammatical structure of language.

FREN 4002 ADVANCED FRENCH COMPOSITION  
3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
An advanced study of grammar, syntax, and vocabulary with refinement of writing skills through composition.

FREN 4010 SPECIAL GENRE  
3-0-3
Prerequisite: FREN 3200
French Literature. Subject announced when course is offered. May be repeated for additional credit when topics change.

FREN 4020 SPECIAL AUTHOR  
3-0-3
Prerequisite: FREN 3200
French Literature. Subject announced when course is offered. May be repeated for additional credit when topics change.

FREN 4210 BUSINESS FRENCH  
3-0-3
Prerequisite: FREN 2002 or Permission of Instructor
French used in business settings and commercial correspondence, along with procedures generally applicable to international commerce. Course taught in French.

FREN 4800 SPECIAL TOPICS  
3-0-3
Prerequisite: NONE
Special topics in French and Francophone language, literature, civilization, or culture. May be repeated up to a maximum of 9 hours if topics are different.

FREN 4950 DIRECTED STUDY  
1-0-1
Prerequisite: FREN 3201
Study in an area or topic of Francophone literature or the French language not normally found in established courses offered by the department. The work is done under the supervision of a professor.

FREN 4960 STUDY ABROAD  
3-0-3
Prerequisite: FREN 1002 or permission of the instructor
A term abroad of French study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions. May be repeated for a maximum of 9 hours if topics are different.

FREN 4980 LANGUAGE INTERNSHIP  
V-V-1
Prerequisite: permission of instructor or department
Graded “Satisfactory” or “Unsatisfactory.” A practical application of students’ skills in French. Students will either tutor students enrolled in public or private schools or complete a research project that requires extensive use of all language skills. This course may be repeated for up to 9 credit hours. Course is elective and will be graded S/U.
FREN 4991 SENIOR SEMINAR 3-0-3
Prerequisite: Senior Standing
An all-inclusive communication skills course. This course focuses on the four basic skills: reading, listening, speaking and writing. It is designed to access and reinforce the skills the student has acquired as a French major. Required of all French majors.

FREN 5030U SPECIAL TOPICS IN FRANCOPHONE LITERATURE 3-0-3
Prerequisite: ENGL 2100 or Permission of Instructor
Analysis of post-colonial, French-language literatures from Asia, Africa, the Caribbean, Canada and Cajun areas, in English translation.

FYS_ – First Year Seminar

FYSE 1000 FIRST-YEAR SEMINAR – EDUCATION 1-0-1
Prerequisite: Fewer than 30 credit hours completed
Corequisite: Associated core course
First year students will learn the skills to become active, effective participants in the Armstrong experience. University physical, academic, and student support services will be discussed, as well as information literacy skills which include recognition of information needs, selection and evaluation of resources to fill information needs, and responsible communication of information. Skills learned will also be demonstrated and evaluated as part of the Corequisite core class.

FYSH 1000 FIRST-YEAR SEMINAR – HEALTH PROFESSIONS 1-0-1
Prerequisite: Fewer than 30 credit hours completed
Corequisite: Associated core course.
First year students will learn the skills to become active, effective participants in the Armstrong experience. University physical, academic, and student support services will be discussed, as well as information literacy skills which include recognition of information needs, selection and evaluation of resources to fill information needs, and responsible communication of information. Skills learned will also be demonstrated and evaluated as part of the Corequisite core class.

FYSL 1000 FIRST-YEAR SEMINAR – LIBERAL ARTS 1-0-1
Prerequisite: Fewer than 30 credit hours completed
Corequisite: Associated core course.
First year students will learn the skills to become active, effective participants in the Armstrong experience. University physical, academic, and student support services will be discussed, as well as information literacy skills which include recognition of information needs, selection and evaluation of resources to fill information needs, and responsible communication of information. Skills learned will also be demonstrated and evaluated as part of the Corequisite core class.

FYSS 1000 FIRST-YEAR SEMINAR – SCIENCE & TECHNOLOGY 1-0-1
Prerequisite: Fewer than 30 credit hours completed
Corequisite: Associated core course
First year students will learn the skills to become active, effective participants in the Armstrong experience. University physical, academic, and student support services will be discussed, as well as information literacy skills which include recognition of information needs, selection and evaluation of resources to fill information needs, and responsible communication of information. Skills learned will also be demonstrated and evaluated as part of the Corequisite core class.

GEOG – Geography

GEOG 1100 WORLD REGIONAL GEOGRAPHY 3-0-3
Various regions of the world - natural, cultural, political, and economic with emphasis on fundamental geographic information.

GEOG 2010 INTRODUCTION TO PHYSICAL GEOLOGY 3-0-3
Prerequisite: eligibility for MATH 1111
Introduction to physical geology focusing on common earth materials, dynamic processes of change, volcanology, seismology, plate tectonics, and the structure and evolution of the earth’s crust and inner regions. Crosslisted as GEOL 2010.
GEOG 2120 CULTURAL GEOGRAPHY 3-0-3
Prerequisite: GEOG 1100 recommended
Topics include the concept of culture, population settlement patterns, technological origins and diffusions, types of economies, and the relationship of man to his environment, with emphasis given to the process of cultural change through time and place. GEOG1100 recommended.

GEOG 3111 PHYSICAL GEOGRAPHY 3-0-3
Prerequisite: GEOG 1100 or GEOG 2120
Topics covered include earth-sun relationships, weather, climate and climate classification, soils, bio-geography, vegetation, and landforms with emphasis on global patterns of distribution.

GEOG 3112 GEOGRAPHIC INFORMATION SYSTEMS 3-0-3
Prerequisite: GEOG 1100 or GEOG 2120 or HIST 1100 or POLS 1100 or permission of the instructor
A basic understanding of the methods and theories of spatial analysis, allowing students to apply GIS knowledge to their professional endeavors. Particular attention will be given to application in the humanities and the social sciences.

GEOG 5530U HUMAN/ENVIRONMENT INTERACTIONS 3-0-3
Prerequisite: GEOG 1100 or GEOG 2120 or permission of instructor
Survey of the key themes, ideas, and methodological approaches within the discipline of geography that seek to understand the relationship between humans and their environment (i.e., cultural/political ecology) over the last century. An interdisciplinary approach will be provided, with a focus on anthropology.

GEOG 5550U TOPICS IN REGIONAL GEOGRAPHY 3-0-3
Prerequisite: GEOG 1100 or HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor.
A survey of the physical, cultural, historical, and economic geography of a world region. May be repeated as topics vary.

GEOG 5860U TOURISM GEOGRAPHIES 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor
A critical/cultural analysis of the influence of tourism on communities and landscapes, focusing on its economic, social, and environmental impacts through case studies.

GEOL – Geology

GEOL 2010 INTRODUCTION TO PHYSICAL GEOLOGY 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
Introduction to physical geology focusing on common earth materials, dynamic processes of change, volcanology, seismology, plate tectonics, and the structure and evolution of the earth’s crust and inner regions. Crosslisted as GEOG 2010.

GEOL 2010H HONORS PHYSICAL GEOLOGY 3-3-4
Prerequisite: eligibility for MATH 1001 or MATH 1111
Introduction to earth materials and their characteristics; investigation of the processes that effect change on Earth’s materials and landscapes over the long span of geologic time; study of changes in natural systems to restore equilibrium and examination of characteristics of natural hazards in order to minimize human risks. Applications of physical geology emphasized through lab investigations and all-day field trip activities to mines, quarries and landscapes of significant importance. A more in-depth treatment of the topics covered in GEOL 2010.

GEOL 3100 INTRODUCTION TO HISTORICAL GEOLOGY 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
History of the earth. Determining geologic time, the history of life as revealed in the fossil record, reconstructing a chronology of events from associated rock bodies.

GERO – Health Science Gerontology

GERO 5500U SURVEY OF GERONTOLOGY 3-0-3
Introduction to the emotional, physiological, and social changes associated with the aging process and their effects on health.
GERO 5510U HEALTHY AGING 3-0-3
Principles of holistic aging: spiritual, social, emotional, occupational, physical, and motivational needs of the elderly.

GERO 5520U GERONTOLOGY PRACTICUM V-V-3
Prerequisite: permission of instructor or department
Practical experience tailored to the student’s interest in collaboration with a faculty member and qualified site supervisor.

GRMN – German

GRMN 1001 ELEMENTARY GERMAN I 3-0-3
Prerequisite: eligibility for ENGL 1101
Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

GRMN 1002 ELEMENTARY GERMAN II 3-0-3
Prerequisite: eligibility for ENGL 1101 and GRMN 1001
Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

GRMN 2001 INTERMEDIATE GERMAN I 3-0-3
Prerequisite: eligibility for ENGL 1101 and GRMN 1002
Continuation of GRMN 1002. Emphasis on the culture of the German-speaking world with continued development of reading, writing, listening, and speaking skills.

GRMN 2002 INTERMEDIATE GERMAN II 3-0-3
Prerequisite: eligibility for ENGL 1101 and GRMN 2001
Continuation of GRMN 2001. Promotion of further awareness of Germanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

GRMN 3301 GERMAN CONVERSATION AND COMPOSITION I 3-0-3
Prerequisite: GRMN 2002
Conversational German in simulated situations to develop greater oral proficiency and to promote continued awareness of German culture. Grammar and syntax review through guided essays to develop writing skills in the contact language. Class entirely in German.

GRMN 3302 GERMAN CONVERSATION AND COMPOSITION II 3-0-3
Prerequisite: GRMN 3301
Continuation of GRMN 3301.

GRMN 3510, -20 STUDY ABROAD 3-0-3
Prerequisite: GRMN 1002 or permission of instructor
A term abroad of German study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions.

GRMN 4010 SPECIAL GENRE 3-0-3
Prerequisite: GRMN 3302
Subject announced when course offered. Typical subjects: medieval poetry; prose, poetry, and drama in the seventeenth and eighteenth century; the novella in the nineteenth century; twentieth century prose.

GRMN 4020 SPECIAL AUTHOR 3-0-3
Prerequisite: GRMN 3302
Subject announced when course offered. Typical authors: Grimmelshausen, Goethe, Schiller, Thomas Mann, Kafka, Grass.

GRMN 4900 INDEPENDENT STUDY 3-0-3
Prerequisite: GRMN 2001
Open to transient students only with permission of the department head.
GNST – Gender Studies

GNST 1101 INTRODUCTION TO GENDER STUDIES 3-0-3
Prerequisite: eligibility for ENGL 1101
Introduction to the major issues and problems in the field of women’s studies. Investigation and analysis of women’s roles in society, theoretical and practical aspects of equality and gender difference, and the constructions of sex and gender as understood from socio-historical, multi-cultural, and interdisciplinary perspectives. The dynamics and working of gender in such areas as family, work, education, imagery in popular culture, law, technology, environmentalism, sexuality, health, and access to information on reproductive options.

GNST 2101 ETHICS, VALUES, AND GENDER 3-0-3
Prerequisite: ENGL 1101
An introduction to value theory and ethics focusing on issues of gender and the experience of women. Topics addressed may include equality and difference, free speech and censorship, marriage and the family, reproduction and abortion, love, sex, and friendship, health and medicine, education and learning, feminism and professional ethics, and the challenges of moral relativism.

GNST 2200 GENDER IN GLOBAL CONTEXTS 3-0-3
Prerequisite: ENGL 1101
Interdisciplinary examination of worldwide cultural differences through the lens of gender.

GNST 3510 GENDER, VIOLENCE AND SOCIETY 3-0-3
Prerequisite: SOCI 1101 or GNST 1101
An overview of gender-based violence domestically and internationally. Students will analyze the political and cultural structures that perpetuate gendered violence, and explore how gendered violence intersects with race, class, and sexuality. Crosslisted with SOCI 3510.

GNST 4700 GENDER STUDIES INTERNSHIP 0-V-3
Prerequisite: English 2100, GNST 1101, and either GNST 2101 or GNST 2200
Individually designed project involving off campus study and research with an appropriate agency. Project may be completed in one semester, during which time the student will be under joint supervision of the sponsoring agency and the faculty supervisor. Upon completion of the internship the student will present a formal written report to the sponsoring faculty supervisor and the GNST program coordinator. Limited to GNST majors.

GNST 4900 GENDER STUDIES JUNIOR/SENIOR SEMINAR 2-3-3
Prerequisite: ENGL 2100 and GNST 1101 and either GNST 2101 or GNST 2200
Course required for GNST majors. Advanced critical analysis and reflection on their course of study. Experience during four-week service-learning component to be integrated into final research project.

GNST 5000U TOPICS IN GENDER STUDIES 3-0-3
Special topics in Gender Studies. Will be cross listed with selected upper-level courses in the university curriculum when content of those courses addresses issues related to Gender Studies. May be repeated for credit with different topics.

GNST 5500U TOPICS IN WOMEN’S LEADERSHIP 3-0-3
Prerequisite: ENGL 2100 or permission of instructor
Examination of the basic themes of leadership through the lens of gender studies. The course will address alternative styles of leadership, globalization and women’s roles, under representation, the gender gap, and the perseverance of women in traditionally male-dominated careers, professions, and public offices.

GNST 5600U SOCIOLOGY OF GENDER 3-0-3
Prerequisite: SOCI 1101 or POLS 1150 or GNST 1101
Examines the social construction of gender and gender inequality in society. Cross-listed with SOCI 5600U.

GNST 5700U PERSPECTIVES IN FEMINIST THEORY 3-0-3
Prerequisite: ENGL 2100 or permission of instructor
An in-depth look at Feminist Theory. This course may be taught from the perspective of a particular discipline. Cross-listed with POLS 5700U.

HIST – History
HIST 1100 POLITICAL HISTORY OF AMERICA AND GEORGIA 3-0-3
Prerequisite: eligibility for ENGL 1101
Origins and development of constitutional theory and its political, intellectual, and cultural impact on American
society from the seventeenth century to the present. Emphasis is placed on the political history of Georgia and
the principles of its constitution. Crosslisted as POLS 1100.

HIST 1111 CIVILIZATION I 3-0-3
Prerequisite: eligibility for ENGL 1101
A survey of the main currents of political, social, religious, and intellectual activity from the earliest civilizations
to about 1500. Major civilized traditions of the world considered and compared.

HIST 1112 CIVILIZATION II 3-0-3
Prerequisite: eligibility for ENGL 1101
A survey of the main currents of political, social, religious, and intellectual activity from about 1500 to present.
Major civilized traditions of the world considered and compared.

HIST 1112H HONORS CIVILIZATION II 3-0-3
Prerequisite: acceptance in honors program or permission of instructor
Replaces HIST 1112 as a component of the university honors program. While the subject matter is the same as
HIST 1112, treatment of it varies greatly. Likewise, instruction goes beyond the usual lecture method, allowing
students to read widely under the direction of the professor.

HIST 2000 ETHICS AND VALUES IN HISTORY 3-0-3
Prerequisite or corequisite: ENGL 1101
Selected issues in ethics and values considered from a historical perspective. Topics may include ethics and
values in western and/or non-western cultures, the relationship of the good of the citizen to that of the state,
family relationships and values, environment and bio-ethics, world view and ethnocentrism.

HIST 2100 THE AFRICAN DIASPORA 3-0-3
Prerequisite: ENGL 1101
Historical overview of the spread of African peoples around the world and examination of diasporic issues in
the modern era, such as the so-called African brain drain, historic diaspora tourism and development, as well
as diasporic experiences of return.

HIST 2111 HISTORY OF AMERICA TO 1877 3-0-3
Prerequisite or corequisite: ENGL 1101
A survey of American and United States history from the pre-Columbian period through the Civil War and
Reconstruction.

HIST 2112 HISTORY OF AMERICA SINCE 1865 3-0-3
Prerequisite or corequisite: ENGL 1101
A survey of United States history from Reconstruction to the present.

HIST 3000 SPECIAL TOPICS IN HISTORY 3-0-3
Reserved for courses not in the regular curriculum which may be taught by visiting professors with expertise
in areas of history other than those normally taught by members of the department. May be repeated for credit
as topics vary.

HIST 3100 HISTORY OF LATIN AMERICA TO 1850 3-0-3
Prerequisite: HIST 1111
A survey of Latin American history and culture to 1850. Examines the historical origins of Latin American society.

HIST 3110 HISTORY OF LATIN AMERICA SINCE 1850 3-0-3
Prerequisite: HIST 1112 or HIST 1112H
A survey of Latin American history and culture since 1850. Examines the causes and consequences of structural
instability in Latin America today.
HIST 3150: HISTORY OF AFRICA TO 1800  
Prerequisite: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H  
An examination of pre-colonial African societies, including social, political, and economic developments.

HIST 3160 HISTORY OF AFRICA SINCE 1800  
Prerequisite: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H  
An examination of colonial and post-colonial African societies, including contemporary social, political, and economic developments.

HIST 3200 TRADITIONAL CHINA  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
History of Chinese civilization from ancient times to the early nineteenth century, with emphasis on its characteristic political, social, economic, and cultural developments.

HIST 3210 MODERN CHINA  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
History of China from the nineteenth century to the present, with emphasis on political, social, economic, and intellectual developments.

HIST 3220 HISTORY OF JAPAN  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
History of Japan from earliest times to present, with primary emphasis on its emergence as a world power since the late nineteenth century.

HIST 3225 HISTORY OF THE ANCIENT NEAR EAST  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor  
Examination of the ancient Near East from prehistory to the rise of Islam. Topics may include ancient Israel, Sumer, Egypt, Assyria, Babylonia, Persia, Greece, Rome, and Byzantium.

HIST 3230 HISTORY OF THE MIDDLE EAST  
Prerequisite: HIST 1100 or POLS 1100 and HIST 1111 or HIST 1112 or HIST 1112H  
Middle eastern history and Islamic culture and civilization from Muhammad to the present. Emphasis on the background of current issues and conflicts in the region.

HIST 3300 MODERN RUSSIA  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
Russian history from Peter the Great to the present, covering the major political, economic, and social developments of Russia in both the imperial and soviet periods as well as the collapse of the Soviet Union.

HIST 3330 MODERN GERMANY  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
History of Germany from the mid-eighteenth century through reunification. Attention given to national socialism and the Third Reich.

HIST 3360 MODERN EAST CENTRAL EUROPE  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
History of nations between Germany and Russia in the nineteenth and twentieth centuries. Topics covered include the rise of nationalism, the gaining of independence, problems in establishing democracy, experience in World War II, the establishment of communist control, and post-communist developments.

HIST 3390 MODERN FRANCE  
Prerequisite: HIST 1111 or HIST 1112 or permission of instructor  
History of France from Louis XIV through the present, emphasizing cultural, intellectual, and political developments of the period.

HIST 3440 EUROPE IN THE MIDDLE AGES  
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H  
Survey of major political, economic, and cultural developments from 300-1400.
HIST 3460 THE RENAISSANCE AND REFORMATION 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H
A study of major political, cultural, economic, and religious developments in Europe from 1400-1648.

HIST 3500 INTRODUCTION TO HISTORICAL METHODS 3-0-3
Prerequisite: Two of the following: HIST 1100, POLS 1100, HIST 1111, HIST 1112, HIST 1112H, HIST 2000, HIST 2111, OR HIST 2112. Open only to history majors or by permission of instructor or department head.
Topics-based course in which students examine various historical materials and the historiography of the topic in order to develop skills in research, writing, critical thinking, oral presentation, and computer literacy as appropriate to the discipline of history. Topics may vary.

HIST 3540 EUROPE IN THE AGE OF REVOLUTION 3-0-3
Prerequisite: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor
European history from 1660-1848 with an emphasis on the intellectual, political, and cultural context of revolution.

HIST 3570 AMERICAN MILITARY HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100
History of warfare and military technique in their social, economic, and political contexts, with emphasis on the American military traditions.

HIST 3630 ECONOMIC HISTORY OF THE U.S. 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance. Crosslisted as ECON 3630.

HIST 3640 AMERICAN SOCIAL HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
An examination of American social patterns. Topics may include economics, demographics, immigration, gender, politics, and religion.

HIST 3710 COLONIAL AND REVOLUTIONARY AMERICA 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor
Discoveries of the new world and the settlement and growth of the English colonies of North America, triumph over France in the new world, the drastic change in British colonial policy and the rise of the American opposition to it, the achievement of independence, and the establishment of the United States under the constitution.

HIST 3730 JACKSONIAN AMERICA (1815-1848) 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor
United States history between 1815 and 1848 with attention to economic, political, social, and intellectual developments. Topics include the growth of a more democratic political culture; the market revolution and the commercialization of society; mass immigration and labor; revivalism, reform, manifest destiny, and the beginnings of modern American culture.

HIST 3740 WOMEN IN AMERICAN HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Examination of the changing political, social, and economic roles of American women from the colonial times to the present. Emphasis on the pre-Civil War feminist reform movements, women’s broader social and economic roles after the war, increased awareness of the need for political power, the mid-twentieth century revolution, and the particular experiences of southern women.

HIST 3750 CIVIL WAR AND RECONSTRUCTION 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor
Causes and significance of the American Civil War, with substantial consideration of military campaigns; political, economic, and social aspects of reconstruction.

HIST 3760 U.S. HISTORY 1877-1917 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2112
Presentation of the major subjects of the late nineteenth and early twentieth centuries, including the emergence of a national economy, its theory and policies; partisan and reform politics; American society and social thought; and territorial aggrandizement.
HIST 3770 U.S. HISTORY 1917-1960 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2112
Analysis of the institutions and forces that molded life in the United States from 1917 to 1960.

HIST 3780 POLITICAL PARTIES AND POLITICAL CULTURE IN 20TH CENTURY AMERICA 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2112
Emergence of modern political parties in the United States from 1896 through the 1970s. Topics include gilded age politics and the urban political machine; the progressive presidents; FDR, the New Deal, and World War II; cold war politics; Lyndon Johnson and the Great Society; the war in Vietnam; the Nixon years.

HIST 3790 U.S. HISTORY SINCE 1960 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2112
Examination of the society of the United States since 1960, with special emphasis given to the major social and cultural trends.

HIST 3800 INTRODUCTION TO PUBLIC HISTORY 3-0-3
Prerequisite: any history course
An introduction to the basic historiographic and anthropological approaches used in public history and a survey of the different disciplines such as archaeology, architecture, folklife, decorative arts, museum studies, and preservation which comprise public history.

HIST 3900 AFRICAN-AMERICAN HISTORY TO 1865 3-0-3
Prerequisite: HIST 1100 or POLS 1100
Introduction to West African cultural antecedents, attempts at acculturation of Africans into Euro-American culture, the resiliency of African traditions, the dynamics of family and community, the abolition of slavery, and the struggle for equality.

HIST 3910 AFRICAN-AMERICAN HISTORY SINCE 1865 3-0-3
Prerequisite: HIST 1100 or POLS 1100
Second half of the African-American survey. Explores the different approaches of African-Americans to realize liberty, citizenship, due process, and suffrage. Follows the struggle of African-Americans from 1865 to the present.

HIST 3920 MODERN AMERICAN POPULAR CULTURE 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2112
Examines American popular culture since the late nineteenth century, considering a variety of media and forms of cultural expression, including vaudeville, cinema, television, and music (including jazz, rock ‘n’ roll, and hip-hop), as well as advertising and consumerism.

HIST 3990 FIELDWORK IN HISTORY V-V-(1-3)
Prerequisite: permission of instructor or department
Field-trip based courses or extended site visits, abroad or in the United States. Research, reading, and written assignment tailored to the specific nature of each study tour or site visitation. (Specific area of study indicated on transcript.) Course may be repeated as topics vary, but no more than five hours counted among the 40 hours required for the major in history. Offered only by special advance arrangement with department.

HIST 3991 INTERNSHIP V-V-(1-3)
Prerequisite: permission of instructor and department
An individually designed course involving off-campus study and research or work in an appropriate public agency or private business. Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies. Course is repeatable, but only three hours may be counted for the major.

HIST 4020 RESEARCH SEMINAR IN WORLD HISTORY 3-0-3
A capstone research seminar engaging the student in extensive readings (both primary and secondary) and resulting in a formal research paper. The historiography and methodology particular to the field of study will also be covered. May be repeated as topics vary.
HIST 4030 RESEARCH SEMINAR IN AMERICAN HISTORY 3-0-3
A capstone research seminar engaging the student in extensive readings (both primary and secondary) and resulting in a formal research paper. The historiography and methodology particular to the field of study will also be covered. May be repeated as topics vary.

HIST 4811 INDEPENDENT STUDY IN NON-WESTERN HISTORY 3-0-3
Prerequisite: Permission of instructor and department.
Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4831 INDEPENDENT STUDY IN EUROPEAN HISTORY 3-0-3
Prerequisite: Permission of instructor and department.
Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4851 INDEPENDENT STUDY IN AMERICAN HISTORY 3-0-3
Prerequisite: Permission of instructor and department.
Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4871 INDEPENDENT STUDY IN PUBLIC HISTORY 3-0-3
Prerequisite: Permission of instructor and department.
Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4950 PROFESSIONAL INTERNSHIP V-V-(1-3)
Prerequisite: HIST 4020 or HIST 4030
An individually designed course project involving off-campus study and research in a government or private agency. Supervision by sponsoring agency and faculty advisor. May be repeated for credit. Graded on a satisfactory/unsatisfactory (S/U) basis; credited among upper level courses but not part of the minimum 27 hours required for the major. Application and credit arrangements should be made through the department in advance, normally by mid-semester preceding the semester of internship. Must have a minimum grade point average in all history courses and 12 hours of upper level history including HIST 4500.

HIST 4990 SENIOR THESIS IN HISTORY 0-6-3
Prerequisite or corequisite: HIST 4020 or HIST 4030
Directed research under the supervision of a thesis committee. Application due to the department’s Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 5100U TOPICS IN LATIN AMERICAN HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or permission of instructor
Detailed analysis of a specific problem, theme, or topic in Latin American history. May be repeated as topics vary.

HIST 5150U TOPICS IN MIDDLE EASTERN HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor
Detailed analysis of a specific problem, theme, or topic in Middle Eastern history. May be repeated as topics vary.

HIST 5200U TOPICS IN AFRICAN HISTORY 3-0-3
Topics in the history of Africa, including political, economic, social, religious, and/or cultural trends as defined by the instructor. May be repeated as topics vary.

HIST 5250U TOPICS IN ASIAN HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or permission of instructor
Detailed analysis of a specific problem, theme, or topic in Asian history. May be repeated as topics vary.

HIST 5300U HISTORY OF RUSSIAN AND SOVIET FOREIGN POLICY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H
Examination of topics of Russian and Soviet foreign policy from the end of the tsarist period to the present. Analysis of the effect on the international system of the collapse of the Soviet Union and the place of Russia in the world today.
HIST 5450U TOPICS IN MEDIEVAL HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H
Study of a topic in medieval history such as the crusades, Byzantine history, or other medieval subjects based on available primary source material. May be repeated as topics vary.

HIST 5480U TOPICS IN EUROPEAN HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112 or HIST 1112H
Selected topics in European history. May be repeated as topics vary.

HIST 5490U TOPICS IN EUROPEAN INTELLECTUAL AND CULTURAL HISTORY 3-0-3
Prerequisite: HIST 1111 or HIST 1112
Study of the evolution of ideas in European history such as liberty, nationalism, or equality, emphasizing primary sources and varied historical interpretations. May be repeated as topics vary.

HIST 5500U TOPICS IN BRITISH HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor
Selected topics in the history of Great Britain and Ireland. May be repeated as topics vary.

HIST 5540U TOPICS IN U.S. FOREIGN RELATIONS 3-0-3
Prerequisite: HIST 1100 or POLS 1100
Study of American objectives and policies in foreign affairs. May be repeated as topics vary.

HIST 5560U TOPICS IN THE HISTORY OF GEORGIA 3-0-3
Prerequisite: HIST 3500 or permission of instructor
Topics in the history of Georgia with emphasis on political, economic, social, religious, and cultural trends in the context of the south and the nation.

HIST 5565U TOPICS IN THE HISTORY OF AMERICAN REFORM 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics in the history of American reform emphasizing the evolution of social policy as it applies to class, gender, ethnicity, and religion. May be repeated as topics vary.

HIST 5570U TOPICS IN THE HISTORY OF THE AMERICAN SOUTH 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics including economic, cultural, social, and political history of the south with emphasis on those factors that made the south a unique section of the nation.

HIST 5575U TOPICS IN URBAN HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Examines urban and suburban development, considering themes that may include immigration, consumerism, deindustrialization, politics, urban renewal, poverty and crime. May be repeated as topics vary.

HIST 5580U TOPICS IN ENVIRONMENTAL HISTORY 3-0-3
Prerequisite: HIST/POLS 1100 and HIST 1111 or 1112
A historical study of the interactions between people and their environments. Course may focus on local environments, the Southeast, the entire United States, or survey the environmental history of the world.

HIST 5640U TOPICS IN THE HISTORY OF TECHNOLOGY AND CULTURE 3-0-3
Prerequisite: any history course
Examination of developments in the history of technology, emphasizing relationships among European and American technologies, societies, and cultures. May be used for European or American history credit, depending upon the emphasis of the course.

HIST 5650U TOPICS IN AFRICAN-AMERICAN HISTORY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics in the history of African-American people emphasizing their social, economic, political, and regional experiences. May be repeated for credit as topics vary.

HIST 5660U TOPICS IN THE HISTORY OF WOMEN AND GENDER IN AMERICA 3-0-3
Prerequisite: one course in American history at 2000 level or above or permission of instructor
Selected topics in the history of women and gender relations in America. May be repeated as topics vary.
HIST 5670U TOPICS IN THE HISTORY OF WOMEN AND GENDER IN EUROPE 3-0-3
Prerequisite: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor
Selected topics in the history of women and gender relations in Europe. May be repeated as topics vary.

HIST 5690U TOPICS IN AMERICAN THOUGHT AND CULTURE 3-0-3
Prerequisite: one course in American history at 2000 level or above or permission of instructor
Selected topics in the history of American thought, values, and culture. May be repeated as topics vary.

HIST 5700U AMERICAN MATERIAL CULTURE 2-1-3
Prerequisite: one course in American history or permission of instructor
Introduction to the methods of material culture analysis and key groups of American artifacts. Topics covered may include furnishings, fashion, cemeteries, industrial design, and consumerism.

HIST 5720U HISTORICAL ARCHAEOLOGY 3-0-3
Prerequisite: HIST 3500 or ANTH 3820
Examination of archaeological artifacts, methods, and theories, emphasizing the use of archaeological evidence consistent with the disciplinary standards of history. Chronological and regional focus varies with instructor’s area of expertise. May be repeated as topics vary.

HIST 5750U FOLKLIFE 2-2-3
Prerequisite: HIST 2111 or HIST 2112
The study of the creation and persistence of tradition in societies and of the process of change as demonstrated in such aspects as narrative, music, song, celebration, festival, belief, and material culture. Emphasis on understanding the multi-ethnic nature of the traditions in American life.

HIST 5770U ORAL HISTORY 1-4-3
Prerequisite: HIST 3500 or permission of instructor
The study of how to prepare and conduct oral history interviews; how to transcribe, log, and index oral history recordings; and how to use oral history collections in writing research papers.

HIST 5790U ARCHIVAL STUDIES 3-0-3
Introduction to the archivist as a professional and to the role of archives in society. Survey of the documentary materials and of the principles and practices involved in their acquisition, cataloging, care, and retrieval in public and private facilities also included.

HIST 5810U TOPICS IN ARCHITECTURAL HISTORY 2-1-3
Prerequisite: any history course
Selected topics in architectural history, including various styles of architecture (Georgian, federal, neoclassical, eclectic, and modern), and vernacular architecture. Recording techniques, research strategies, theoretical approaches, landscape architecture, field trips, and visiting lecturers. May be repeated as topics vary.

HIST 5830U HISTORIC PRESERVATION 3-0-3
Prerequisite: HIST 3500
Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics.

HIST 5850U MUSEUM STUDIES 2-2-3
Prerequisite: HIST 3500 or permission of instructor
Development of museums in the United States and of the ethics and practices of the museum profession, to include collections management, planning, outreach, and public education.

HIST 5870U HERITAGE TOURISM 3-0-3
Prerequisite: HIST 3500 or permission of instructor
History of tourism, with emphasis on heritage and tourism, and of the function and impact of tourism on guest and host societies. Aspects of the modern tourist industry and its products, such as promotional and travel literature, accommodations and transport, and tourist arts also investigated.

HIST 5890U TOPICS IN PUBLIC HISTORY V-V-(1-3)
Prerequisite: HIST 3500 or permission of instructor
Special topic in the field of public history defined by the instructor. Taught as a colloquium or seminar.
HIST 5940U FIELDWORK IN HISTORY V-V-(1-3)  
Prerequisite: permission of instructor or department  
Field-trip based and/or engagement in extended site visits, whether abroad or in the United States. Research, reading, and written assignments tailored to the specific nature of each study tour or site visitation. Specific area of study indicated on student transcript. Course may be repeated for credit as topics vary, but no more than three hours counted among the 33 hours required for the major. Offered only by special advance arrangement with the department.

HLPR – Health Professions

HLPR 1100 INTRODUCTION TO HEALTH CARE AND MEDICAL TERMINOLOGY 3-0-3  
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111  
Introduction to concepts necessary for effective, ethical performance in the health care delivery system. Terminology of medicine. Basic foundation course.

HLPR 1200 MULTIDISCIPLINARY SKILLS IN HEALTH PROFESSIONS 1-3-2  
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111  
Emphasis on basic patient care skills common to all health professions. Patient and health practitioner safety is emphasized in class laboratory exercises.

HLPR 2000 INTRODUCTION TO RESEARCH IN THE HEALTH PROFESSIONS 2-0-2  
Prerequisite: ENGL 1102 and MATH 2200 and either MATH 1001 or MATH 1111  
Introduction to methods of scientific research in the health professions. Steps of the research process, critique of research reports, completion of literature review.

HLPR 2010 CULTURE, ILLNESS, DIAGNOSIS AND TREATMENT (2-3)-0-(2-3)  
Prerequisite: ENGL 1101  
Health practices around the world. How different cultural, social and ethnic groups explain the causes of illnesses, the types of treatments they seek, and services available for diagnosis.

HLPR 2200 INTERPROFESSIONAL TEAMS IN HEALTHCARE ORGANIZATIONS 3-0-3  
Prerequisite: Eligibility for ENGL 1101  
An introduction to theory and skills related to interprofessional practice in healthcare organizations.

HLPR 2400 PRINCIPLES OF PHARMACOLOGY 2-0-2  
Prerequisite: CHEM 1151/1151L and CHEM 1152/1152L and BIOL 2082  
Principles of pharmacology to include routes of drug administration, absorption, distribution, tissue accumulation, metabolism, and excretion. Additional topics include pharmacodynamics, drug interactions, toxicology, and changes across the life span.

HITC – Health Informatics

HITC 4100 ANALYSIS OF HEALTHCARE DATA 3-0-3  
Prerequisite: MATH 2200 and HSCC 2300 or Permission of instructor  
Survey of the methods that are commonly employed in the analysis of healthcare data commonly extracted from healthcare information systems such as electronic health records.

HITC 4700 INTRODUCTION TO PROJECT MANAGEMENT 3-0-3  
Prerequisite: HSCA 4630 and ITEC 3600 or Permission of instructor  
Survey of knowledge areas and tools necessary for successful management and completion of health informatics-related projects. Starting from project pre-initiation and selection process, this course also stresses the life cycle of health care information technology (HIT) projects and how to apply appropriate knowledge areas in various phases of HIT project's lifecycle for integrated project management.
HITC 4750 PRINCIPLES OF KNOWLEDGE MANAGEMENT AND DECISION SUPPORT 3-0-3
Prerequisite: HSCA 4630 or Permission of Instructor
Introduction to the principles of knowledge management and its application to health informatics. The course will address standard knowledge management lifecycle, including acquisition, organization, processing, sharing, and operationalization within the healthcare enterprise as well as common approaches to clinical decision support, diffusion of innovation, data warehousing, and data mining.

HITC 4800 SPECIAL TOPICS IN HEALTH INFORMATICS 3-0-3
Prerequisite: HSCA 4630 or Permission of Instructor
Introduction to current and emerging topics of importance to the field of health informatics including, but not limited to, health information exchange, meaningful use of health data, electronic medical record and provider order entry systems, enterprise architecture and applications, data standards, interoperability, etc.

HITC 4900 INTERNSHIP V-V-(1-6)
Prerequisite: Permission of Instructor
On-site experience under the direction of a site supervisor (an off-campus health informatics professional) and a faculty supervisor. A faculty supervisor will establish criteria for performance and evaluation prior to the semester the internship is undertaken. Students may use a maximum of 6 hours of internship credit to fulfill degree requirements.

HONS – Honors
HONS 2000 HONORS TOPICS IN GLOBAL PERSPECTIVES 2-0-2 OR 3-0-3
Prerequisite: admission to honors program; other Prerequisite may vary according to instructor
Designed to offer a topical look at global issues, with topics changing on an annual basis. Course may be repeated for credit as topics vary, but may be counted to fill honors in the core requirement only once.

HONS 2100 HONORS TOPICS IN ETHICS AND VALUES 2-0-2 OR 3-0-3
Prerequisite: admission to the honors program; other Prerequisite may vary according to instructor.
An in-depth examination of ethical issues. Students will participate in activities such as group discussions and debates on topical ethical issues. Course may be repeated for credit as topics vary, but may be counted to fill honors in the core requirement only once.

HSCA – Health Services Administration
HSCA 3600 FINANCIAL MANAGEMENT FOR HEALTH-RELATED ORGANIZATIONS 3-0-3
Prerequisite: ACCT 2101
Introduction to concepts of organizational financial management in the health industry.

HSCA 4201 HEALTH CARE MARKETING 3-0-3
Survey of the essential aspects of marketing as they apply various sectors of the health services industry.

HSCA 4600 PRINCIPLES OF HUMAN RESOURCES MANAGEMENT 3-0-3
Survey of the most common methods and application involving the management of human (non-capital) resources within health-related organizations. Topics include employee recruitment, selection, training, evaluation, and retention, with an emphasis on the most common practices associated with each.

HSCA 4610 HEALTH CARE ECONOMICS 3-0-3
Microeconomic approach to the market for health services and macroeconomic applications to health policy formulation and evaluation.

HSCA 4620 PRINCIPLES OF MANAGEMENT IN HEALTH SERVICES ORGANIZATIONS 3-0-3
An introduction to organizational theory and behavior with specific applications to managers in health services organizations and systems.
HSCA 4630 HEALTH INFORMATION SYSTEMS 3-0-3
A survey of commonly utilized health information systems and technologies including electronic health records, computerized provider order entry/electronic prescribing systems, clinical decision support, telehealth and telemedicine, consumer informatics, and administrative support applications. Other topics of coverage include privacy and security of health information, legal/regulatory environment, and issues regarding procurement, implementation and evaluation of health information systems.

HSCA 4650 LONG TERM CARE MANAGEMENT 3-0-3
Prerequisite: HSCC 3120 and HSCA 4610 and HSCA 4620
Issues particular to care of residents and management in a long term care setting. Synthesis of topics studied elsewhere including accreditation standards, human resource issues.

HSCA 4655 PRINCIPLES OF HEALTH INSURANCE AND REIMBURSEMENT 3-0-3
Prerequisite: HSCC 2500
Survey of theory and applications pertinent to health insurance offerings in the private and public sector and the primary methodologies employed by third parties to reimburse health care organizations for services rendered.

HSCA 4660 – SURVEY OF HEALTH OUTCOMES 3-0-3
An overview of quality assurance methods and tools and how they apply in various health care settings, including current efforts to reduce medical errors and promote patient safety.

HSCA 4901, -2 HEALTH SCIENCE PRACTICUM IN LONG TERM CARE I AND II V-V-4
Prerequisite: permission of instructor or department
Two semesters (8 hours) of on-site experience under tutelage of licensed nursing home administrator. Development of philosophy integrating clinical and administrative aspects of long term care.

HSCC – Health Science Core

HSCC 2200 – HEALTH COMMUNICATION 3-0-3
Prerequisite: ENGL 1102
Introduces students to fundamental communication principles, focusing on developing the skills required to effectively present and convey professional and health-related information to diverse audiences. The course focuses on oral skills, written skills, organizational skills, and communication skills involving new technology and media.

HSCC 2300 – MANAGEMENT OF HEALTH INFORMATION 3-0-3
Prerequisite: ENGL 1102
A survey of commonly used computer applications in the health sciences, focusing on the effective use and communication of health care data and information.

HSCC 2500 HEALTH ISSUES AND RESOURCES 3-0-3
Formulation and facilitation of practical modes of collaboration and cooperation among health agencies, levels of program personnel, and provider organizations.

HSCC 3100 – RESEARCH METHODS 3-0-3
Prerequisite: ENGL 1102and MATH 2200
Conceptual frameworks, data sources, design, interpretation, and evaluation of research methods and current topics in health sciences research.

HSCC 3110 – LEGAL ISSUES IN THE HEALTH CARE ENVIRONMENT 3-0-3
Examines the law and legal processes as they relate to health care professionals and organizations. Includes an overview of the American legal system and a wide range of legal issues that apply to the health professions.

HSCC 3130 – HEALTH POLICY ISSUES 3-0-3
Overview of health policy-making process of health care. Issues pertinent to policy deliberation, formation, implementation, evaluation and statutory and administrative law.
COURSE DESCRIPTIONS

HSCC 3140 EPIDEMIOLOGY 3-0-3
Distribution and determinants of health and disease in defined populations with applications to clinical, environmental, and infectious disease settings.

HSCC 3760 ENVIRONMENTAL AND COMMUNITY HEALTH ISSUES 3-0-3
Historical, contemporary, and prospective environmental factors that impact public health status.

HSCC 4005 INTERPROFESSIONAL PATIENT ADVOCACY INTERNSHIP 1-V-3
A service learning course which targets health and wellness. Students practice patient advocacy skills in community health care delivery settings.

HSCC 4015 HEALTH PLANNING 3-0-3
The study of community health promotion program planning, implementation and evaluation.

HSCC 4020 SEMINAR IN PROFESSIONAL ISSUES 3-0-3
Prerequisite or corequisite: Must be a senior Health Sciences major.
Exposes students to expected standards of professional behavior by providing strategies for oral and written communication including research, resumes, job search, interviewing skills, grant writing, ethics, credentialing, setting agenda, and chairing meetings.

HSCC 4950 PRACTICUM V-V-1-6
Prerequisite: Permission of department or instructor
On-site experience in the student’s area of interest.

HSCF – Health Science Fitness Management
HSCF 2015 INTRODUCTION TO HUMAN PERFORMANCE & FITNESS MANAGEMENT 1-0-1
Prerequisite: Human Performance/Fitness Majors only
Course provides basic overview of human performance and exercise science professions, including professional opportunities, activities, organizations, certifications, current issues, and legal concerns.

HSCF 3005 APPLIED MUSCULOSKELETAL ANATOMY AND KINESIOLOGY 3-0-3
Prerequisite: C or better in BIOL 2081
Anatomical and kinesiological principles of the musculoskeletal system as related to human movement.

HSCF 3200 EXERCISE PHYSIOLOGY 3-0-3
Prerequisite: C or better in BIOL 2082
Acute and chronic physiological and biochemical responses of the human body to exercise.

HSCF 3500 APPLIED KINESIOLOGY AND BIOMECHANICS 3-0-3
Prerequisite: HP/FM majors only and permission of instructor
Concepts of anatomical and mechanical principles related to exercise and physical activity. Students will be introduced to qualitative and quantitative mechanical analysis of human movement.

HSCF 3710 WORKSITE WELLNESS AND SAFETY 3-0-3
Introduction to the multiple skills needed to design, implement and evaluate health promotion and wellness programs in various settings.

HSCF 4010 EVALUATION AND PRESCRIPTION IN EXERCISE & SPORT 3-1-4
Prerequisite: HSCF 3005 and HSCF 3200 or permission of instructor. HP/FM majors only.
Measurement of human performance and laboratory techniques in physical activity and sport.

HSCF 4020 HEALTH AND FITNESS ENTREPRENEURSHIP 3-0-3
Prerequisite: HSCA 3600; HP/FM majors only
Strategies to research, organize, propose and develop business plans in worksite, hospital-based and privately-owned fitness centers.
HSCF 4030 HEALTH/FITNESS MANAGEMENT 3-0-3
Prerequisite: Senior status in the BHS Health and Fitness Management track and HSCA 3600.
Art and science of managing health, wellness, and fitness centers.

HSCF 4040 PERSONAL FITNESS TRAINING 3-0-3
Prerequisite: HSCF 3005 and HSCF 3200 or permission of instructor
The development of exercise training programs to meet needs of various populations. At the conclusion of the course, students will be prepared to take a nationally accredited personal trainer’s certification exam.

HSCP – Health Science Public Health
HSCP 2000 ETHICAL THEORIES/MORAL ISSUES IN HEALTH 3-0-3
Theories and issues in the ethics of public health, health care, and health promotion. Contemporary issues, such as health bioethics, DNA manipulation, contraception, and end-of-life decisions.

HSCP 2050 INTRODUCTION TO THE DISEASE CONTINUUM 3-0-3
A population-based overview of the disease continuum.

HSCP 3730 HEALTH PROMOTION THEORY 3-0-3
Individual and environmental forces generating opposing viewpoints regarding public health needs and concerns.

HSCP 3740 HEALTH PROMOTION METHODS 3-0-3
Selection of methods and media best suited for successful implementation of program plans for specific populations.

HSCP 3750 TOPICS IN PUBLIC HEALTH 3-0-3
Major public health topics and their effects on modern society.

HSCP 4000 INDEPENDENT STUDY IN HEALTH SCIENCE V-V-(1-3)
Prerequisite: permission of instructor or department
Independent study in an area of interest in health.

ISCI - Interdisciplinary Science
ISCI 2001 LIFE/EARTH SCIENCE FOR EARLY CHILDHOOD EDUCATORS 2-2-3
Prerequisite: One Core Area D Lab Science course (Minimum grade of C).
Interdisciplinary science course for Early Childhood Education majors. Inquiry-based course covers basic concepts in life science and earth science. Content based on Georgia Performance Standards for K-5. Will not count as an Area D course.

ISCI 2002 PHYSICAL SCIENCES FOR EARLY CHILDHOOD EDUCATORS 2-2-3
Prerequisite: MATH 2008 (minimum grade of C) and One Core Area D Lab Science course (minimum grade of C)
Conceptual and laboratory investigation of the fundamental concepts in the physical sciences (properties of matter, basic chemical reactions, energy, force, fields, optics, space) designed for pre-service elementary grade teachers. Content based on Georgia Performance Standards for K-5. Will not count as an Area D course.

ITEC – Information Technology
ITEC 1050 INTRODUCTION TO COMPUTER CONCEPTS AND APPLICATIONS 3-0-3
Prerequisite: MATH 1001 or MATH 1111
Study of hardware and software components of computers, and the impact of computers on society. Discussion of the capabilities and the limitations of computers, and the kinds of problems that are best solved by computers. Experience with using personal computer productivity tools to solve problems. Emphasis on the major uses of computers. Not designed for the computer science major.
ITEC 1310 PROGRAMMING FOR INFORMATION TECHNOLOGY 3-0-3
Prerequisite: MATH 1111
Introduction to basic concepts and techniques of a contemporary programming language. Topics include language syntax, variables, decision structures, loop structures, functions, and IDE. Development of modular programs for event-driven applications.

ITEC 2000 INTRODUCTION TO APP DEVELOPMENT 3-0-3
Prerequisite: CSCI 1301 or ITEC 1310
Introduction to mobile computing and mobile application software development. Topics include mobile computing devices, mobile operating systems, app programming languages and APIs, app development environments, app programming and development cycles.

ITEC 2530 OPERATING SYSTEMS 3-0-3
Prerequisite: CSCI 1150
Principles of the management of memory, processors, processes and deadlocks, synchronization of computing tasks, files, devices, and systems. Principles of network organization and network operating systems. Analysis and evaluation of comparative operating systems.

ITEC 2990 SPECIAL TOPICS IN INFORMATION TECHNOLOGY V-V- (1-4)
Prerequisite: Announced with the topic.
Special topics at freshman and sophomore level of current interest in information technology.

ITEC 3500 DATABASE ADMINISTRATION 3-0-3
Prerequisite: ITEC 1310

ITEC 3600 SYSTEMS ANALYSIS AND DESIGN 3-0-3
Prerequisite or corequisite: ITEC 3500
Emphasis on development of business application systems; includes methods for investigating systems, project planning and control, system integration, and techniques for describing process flows, data flows, data structures, system objects, file designs, input and output designs, and program specifications.

ITEC 3700 CYBER SECURITY I 3-0-3
Prerequisite: CSCI 2070
Current standards and best practice in information assurance and security. Topics include the evaluation of security models, threat analysis, security risk assessment and risk mitigation, disaster recovery planning, cryptography and encryption algorithms, and security policy formation and implementation.

ITEC 3710 E-COMMERCE 3-0-3
Prerequisite: ITEC 3500 and CSCI 3301
Principles and practices of E-commerce including transaction and electronic payment systems, and business, legal, and security issues as they relate to E-commerce.

ITEC 3800 DATA COMMUNICATIONS AND NETWORKS 3-0-3
Prerequisite: ITEC 2530
Fundamentals of practical aspects of computer networks and data communications; standards, protocols, topologies, architectures, routing devices, wireless technologies, and monitoring and management.

ITEC 3950 ADVANCED MOBILE APP DEVELOPMENT 3-0-3
Prerequisite: ITEC 2000
An advanced course in Mobile App Development with more advanced techniques such as the development of gaming applications and applications for database access.

ITEC 3961 INTERNSHIP IN INFORMATION TECHNOLOGY V-V-(1-4)
Prerequisite: Permission of instructor or program coordinator
Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.
ITEC 3972 INTERNSHIP IN INFORMATION TECHNOLOGY  V-V-(1-4)
Prerequisite: Permission of instructor or program coordinator
Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.

ITEC 4200 CYBER SECURITY II, NETWORK SECURITY  3-0-3
Prerequisite: ITEC 3700
Concepts of network security, including: countermeasures and safeguards to networks such as remote access controls, firewalls, intrusion detection systems, data encryption, and virtual private networks.

ITEC 4300 CYBER SECURITY III, ETHICAL HACKING  3-0-3
Prerequisite: ITEC 4200
Concepts of hacker techniques and tools, including: cryptographic concepts, a technical overview of hacking, including port scanning, enumeration of computer systems, wireless vulnerabilities, web and database attacks, malware, and penetration testing. Social aspects of hacking, including social engineering. Incident response.

ITEC 4391 SENIOR CAPSTONE PROJECT I  3-0-3
Prerequisite: ITEC 3600, ITEC 3710, and ENGL 3720.
Initiation, design, scheduling, documentation and reporting on a major design/research project of information technology. Written and oral presentations required.

ITEC 4392 SENIOR CAPSTONE PROJECT II  3-0-3
Prerequisite: ITEC 4391
Continuation of the major design/research project begun in ITEC 4391. Project implementation, documentation, and reporting in a symposium format are expected.

ITEC 4770 CLIENT/SERVER SYSTEMS  3-0-3
Prerequisite: ITEC 3500
Architectures and concepts of n-tier client/server models. Client/server interfaces and communications protocols: Open Database Connectivity (ODBC) and Java Database Connectivity (JDBC). Design and development of web-based applications involving front clients, middle-tier application servers, and backend databases.

ITEC 4800 NETWORK DESIGN AND ADMINISTRATION  3-0-3
Prerequisite: ITEC 3800
Advanced topics on network and data administration. Topics include installation, configuration, access control, network security, web servers, and firewalls.

ITEC 4830 GRAPHICS DESIGN  3-0-3
Prerequisite: ITEC 3600
Creation of two and three-dimensional computer graphics and animations using both professional programming libraries and standard CGI tools. Survey of hardware and software used in the computer graphics industry, classic algorithms and data structures for raster graphics, representation and processing of three dimensional objects, and an introduction to procedural animation and image processing for special effects.

ITEC 4990 SPECIAL TOPICS IN INFORMATION TECHNOLOGY  V-V- (1-4)
Prerequisite: Announced with topic
Special topics at junior and senior level of current interest in information technology.

ITEC 4999 INDEPENDENT STUDY  V-V- (1-3)
Prerequisite: Permission of the instructor

JOUR – Journalism

JOUR 3200 INTRODUCTION TO PRINT AND ONLINE MEDIA  3-0-3
Prerequisite: ENGL 2100
Overview of print media, with introduction to journalistic writing, layout design, photography, and media publication skills.
JOUR 3430 NEWS WRITING AND REPORTING 3-0-3
Prerequisite: ENGL 2100
Techniques of basic news reporting and writing and an introduction to advanced practices, with practical assignments in the media.

JOUR 3450 EDITING AND MARKUP 3-0-3
Prerequisite: JOUR 3430
Selection and preparation of written and pictorial material for newspapers and related media.

JOUR 3460 TRAVEL AND TOURISM WRITING 3-0-3
Prerequisite: ENGL 1102
Introduction to travel writing, the rhetoric of tourism, and the forms of writing relevant to contemporary tourism.

JOUR 3470 BASIC TV PRODUCTION 3-3-3
Study of the theory and practice of television production styles, forms and concepts. Special emphasis on the critical appreciation of electronic communication techniques.

JOUR 3500 INTRODUCTION TO FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Emphasis on the critical appreciation of film as an art form. Crosslisted as FILM 3500 and THEA 3500.

JOUR 4000 TOPICS IN JOURNALISM 3-0-3
A seminar on important contemporary issues in journalism. Varying topics may include rights and responsibilities of journalists, censorship, media control, propaganda and other current issues.

JOUR 4100 PUBLIC AFFAIRS REPORTING 3-0-3
Prerequisite: JOUR 3430
Examination of the processes of local, state, and national government from a news reporter’s perspective.

LATN – Latin
LATN 1001 ELEMENTARY LATIN I 3-0-3
Prerequisite: eligibility for ENGL 1101
Essentials of grammar and readings from selected Latin authors.

LATN 1002 ELEMENTARY LATIN II 3-0-3
Prerequisite: eligibility for ENGL 1101 and LATN 1001
Essentials of grammar and readings from selected Latin authors.

LATN 2001 INTERMEDIATE LATIN I 3-0-3
Prerequisite: eligibility for ENGL 1101 and LATN 1002
Further readings in Latin literature with special emphasis on Vergil and Ovid.

LATN 2002 INTERMEDIATE LATIN II 3-0-3
Prerequisite: eligibility for ENGL 1101 and LATN 2001
Further readings in Latin literature with special emphasis on Vergil and Ovid.

LATN 3000 READINGS IN LATIN 3-0-3
Prerequisite: LATN 2002
Readings from the 2000 years of Latinity from Plautus to the recent encyclicals.

LATN 3010 READINGS IN LATIN II 3-0-3
Readings in Latin poetry. May include Horace, Catullus, Ovid, Propertius, and Tibullus.

LATN 3020 OVID 3-0-3
Prerequisite: LATN 2001
Readings from the *Metamorphoses* with emphasis on familiar mythology and other selected works.
LATN 3351, -2, -3 STUDY ABROAD IN ROME AND ATHENS 9-0-9
Prerequisite: LATN 1002
An 8-9 week summer semester’s residence and study in Rome and Athens in conjunction with the studies abroad program of the University System of Georgia. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati, the student experiences first hand the reality of life in the ancient world. Crosslisted as CLAS 3351, -2, -3.

LATN 3960 LATIN LANGUAGE AND CULTURE IN ROME 9-0-9
Prerequisite: LATN 2001
Composition outside of class and travel to cultural sites.

LATN 4010 VERGIL 3-0-3
Prerequisite: LATN 2001
Readings from the Aeneid with emphasis on Books II, IV, VI, and VIII, and other selected works.

LEAD – Leadership Studies

LEAD 1001 INTRODUCTION TO LEADERSHIP STUDIES 2-0-2
Prerequisite: Eligibility for ENGL 1101
A concept-based approach to the interdisciplinary field of leadership studies.

LING – Linguistics

LING 3800 ADVANCED COMPOSITION 3-0-3
Prerequisite: ENGL 2100 or permission of department head.
Advanced study of expository and argumentative techniques, grammar and style. Crosslisted as ENGL 3800.

LING 5000U TOPICS IN LINGUISTICS 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Seminar in topics of theoretical and applied linguistics. May be repeated for additional credit when topics change.

LING 5440U EARLY ENGLISH LITERATURE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as ENGL 5440U.

LING 5465U CHAUCER 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Chaucer's two masterpieces, *The Canterbury Tales* and *Troilus and Criseyde*, and minor poetry. Includes in-depth study of Chaucer's culture, context, and language. Crosslisted as ENGL 5465U.

LING 5800U ADVANCED GRAMMAR 3-0-3
Prerequisite: ENGL 2100 or permission of department head
Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as ENGL 5800U.

LING 5820U HISTORY OF ENGLISH LANGUAGE 3-0-3
Prerequisite: ENGL 2100 or permission of department head
English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to Modern English. Phonetic, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as ENGL 5820U.

LIST – Liberal Studies

LIST 3000 THE HISTORY OF THE LIBERAL ARTS 3-0-3
Prerequisite: ENGL 1101
A study of the historical development of the liberal arts, from Plato to the present, including an analysis of the role of the liberal arts in higher education in the 21st Century.
### LSLI – Library Science

**LSLI 1100 INTRODUCTION TO LIBRARY RESEARCH AND MATERIALS** 1-1-1  
An orientation to the library. Students will learn to access information in a variety of formats.

**LSLI 3110 LIBRARY RESEARCH AND ELECTRONIC RESOURCES** 2-2-2  
Introduction to searching appropriate printed and electronic databases. Internet resources are included. Directed to the student’s subject interest.

**LSLI 3120 INFORMATION RESOURCES IN HUMANITIES** 1-1-1  
Basic and advanced reference materials and search techniques in the humanities.

**LSLI 3130 INFORMATION RESOURCES IN SOCIAL SCIENCES** 1-1-1  
Basic and advanced reference materials and search techniques in the social sciences.

**LSLI 3140 INFORMATION RESOURCES IN SCIENCES** 1-1-1  
Basic and advanced reference materials and search techniques in the sciences.

### LWSO – Law and Society

**LWSO 2000 INTRODUCTION TO LAW AND SOCIETY** 3-0-3  
Prerequisite: Any two of the following courses – ANTH 1102, CRJU 1100, SOCI 1101, GWST 1101, PHIL 2010, PHIL 2030, POLS 2100, POLS 1150  
Exposure to and readings in social and governmental issues focused on their interaction with the American legal system.

**LWSO 3990 SPECIAL TOPICS IN LAW AND SOCIETY** 3-0-3  
Prerequisite: Varies with topic  
Topics and issues not available in other courses. May be repeated as topics vary.

**LWSO 4172 TERRORISM AND NATIONAL SECURITY LAW** 3-0-3  
Prerequisite: CRJU/POLS 2200 or POLS 1100; at least one of the following courses: POLS 5500U or POLS 3150 or POLS 3160  
Exploration of the role of law in American national security policy, with a focus on statutes and United States Supreme Court decisions related to terrorism and enemy detainee cases.

**LWSO 4190 ENVIRONMENTAL LAWS AND REGULATIONS** 3-0-3  
Prerequisite: POLS 2100 or POLS 2200 or LWSO 2000  
An introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology, and issues relating to the impact of environmental laws on society.

**LWSO 4620 – INTERNSHIP** V-V-(1-6)  
Prerequisite: permission of program coordinator  
Open to juniors or seniors. Field experience in a law firm or law-related agencies. Joint supervision by program coordinator and law firm or agency official.

### MAED – Mathematics Education

**MAED 5500U TEACHING MATHEMATICS WITH TECHNOLOGY** 3-0-3  
Prerequisite: MATH 1113  
Use of graphing calculators and special computer software to teach algebra, geometry, advanced algebra, and precalculus.

**MAED 5900U SPECIAL TOPICS IN MATHEMATICS EDUCATION** 3-0-3  
The study of topics relevant to the secondary mathematics classroom.
MAED 5940U TEACHING OF MIDDLE SCHOOL/GENERAL MATHEMATICS 2-3-3
Prerequisite: MATH 1113
The teaching of traditional topics, such as fractions, decimals, percentage, measurement, informal geometry, algebraic structures, probability, and statistics. Cooperative learning in an activity-based problem solving environment; incorporation of drill and practice in necessary skills with appropriate games and exercises.

MATH – Mathematics

MATH 0090 MATH STUDY SKILLS 1-0-1
Strategies for learning mathematics, improving math study skills, and reducing math anxiety. Designed for students who have difficulty in basic mathematics and algebra.

MATH 0097 INTRODUCTORY ALGEBRA 3-0-3
Prerequisite: placement according to COMPASS score
Real numbers, variable expressions, solving equations and inequalities, applications, graphing straight lines, polynomials, factoring, and radical expressions.

MATH 0099 INTERMEDIATE ALGEBRA 3-0-3
Prerequisite: placement according to COMPASS score
Rational expressions, factoring, linear equations and inequalities, quadratic equations, word problems, graphs of linear functions, rational exponents, and radicals.

MATH 0987 FOUNDATIONS FOR QUANTITATIVE REASONING (MATH 1001) 3-0-3
Prerequisite: Placement according to Math Placement Index (MPI) < 1075
Study of set relationships, Venn diagrams, real number arithmetic, algebraic expressions, equations, functions, slopes, rates of change, coordinate graphing, and introductory statistics topics. This course is designed to review common arithmetic topics as well as introduce students to foundational algebra and statistics topics covered in MATH 1001.

MATH 0989 FOUNDATIONS FOR COLLEGE ALGEBRA (MATH 1111) 3-0-3
Prerequisite: Placement according to Math Placement Index (MPI) < 1100
A study of the essential mathematical concepts required for success in College Algebra (MATH 1111). Topics include properties of real numbers, linear equations and inequalities, quadratic equations, graphs, polynomials, and roots.

MATH 0997 SUPPORT FOR QUANTITATIVE REASONING (MATH 1001) 2-0-2
Prerequisite: Placement according to Math Placement Index (1075 ≤ MPI < 1165) or successful completion of MATH 0987.
Provides just-in-time support for students concurrently enrolled in MATH 1001. Additional review and practice will be provided for relevant MATH 1001 course topics: logic and reasoning, sets and Venn diagrams, units of measure, percentages, formulas, fundamentals of statistics and statistical graphics, probability, functions, and modeling.

MATH 0999 SUPPORT FOR COLLEGE ALGEBRA (MATH 1111) 2-0-2
Prerequisite: Placement according to Math Placement Index (1100 ≤ MPI < 1265) or successful completion of MATH 0989.
Provides just-in-time support for students concurrently enrolled in MATH 1111. Topics will parallel topics studied in MATH 1111, as well as essential quantitative skills needed to be successful in MATH 1111, including factoring, polynomial expressions, and roots.

MATH 1001 QUANTITATIVE REASONING 3-0-3
Prerequisite: Math Placement Index (MPI) of 1165 or higher
Corequisite: MATH 0997 for MPI of 1075 or higher and less than 1165
Emphasis on processing information via models by conducting assumption validity, applicability and suitability checks, executing appropriate calculations to do forecasts and arrive at logical decisions. Will rely on examples to illustrate use of mathematics in real world situations. This course is an alternative in Area A of the Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take precalculus or the calculus sequences for mathematics and science majors. MATH 1001 serves as a prerequisite only for MATH 2200.
MATH 1111 COLLEGE ALGEBRA  
Prerequisite: Math Placement Index (MPI) of 1265 or higher  
Corequisite: MATH 0999 for MPI of 1100 or higher and less than 1265  
Placement recommendations: Some students who satisfy the Prerequisite for MATH 1111 nonetheless need to reinforce their mathematical skills in a learning support mathematics course before taking MATH 1111. In particular, if any of the following is true, students should consider enrolling in MATH 0099: (a) the student did not complete two years of algebra and one year of geometry in high school; (b) the student has not completed a mathematics course in the past five years; (c) the student made below 430 on the mathematics portion of the SAT.  
Functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs, inequalities, and linear, quadratic, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included.

MATH 1111L COLLEGE ALGEBRA LABORATORY  
Corequisite: MATH 1111  
Mathematical activities supplement the lecture material of MATH 1111.

MATH 1113 PRE-CALCULUS MATHEMATICS  
Prerequisite: MATH 1111 (minimum grade of C) or a score of 1500 or higher on the Math Placement Index (MPI)  
Designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic, trigonometric, logarithmic and exponential functions accompanied by analytic geometry.

MATH 1161 CALCULUS I  
Prerequisite: MATH 1113 (minimum grade of C) or a score of 1600 or higher on the Math Placement Index (MPI)  
Functions and limits; the derivative and its applications, antidifferentiation; the definite integral and applications; exponential and logarithmic functions.

MATH 1161H HONORS CALCULUS I  
Prerequisite: Eligibility for MATH 1161 and either admission to the Honors Program or a minimum grade of B in MATH 1113, or permission of the department head  
Course content similar to MATH 1161, but a more rigorous treatment of differential and integral calculus. Course will include oral or written student presentations of theoretical or applied projects.

MATH 1161L CALCULUS LABORATORY  
Corequisite: MATH 1161  
Mathematical activities supplement the lecture material of MATH 1161.

MATH 1950 APPLIED MATH FOR NON-SCIENCE MAJORS  
Prerequisite: MATH 1111 (minimum grade of C)  
Mathematical applications in economics and the social sciences. Linear functions and models; matrix operations and applications; inequalities and linear programming; exponential functions and log functions; single and multivariate differentiation.

MATH 2008 FOUNDATIONS OF NUMBERS AND OPERATIONS  
Prerequisite: MATH 1001, MATH 1101, MATH 1111, or MATH 1113  
An introductory mathematics course with emphasis on the understanding and use of the major concepts of numbers and operations with strategies of problem solving. Restricted to early childhood education majors in Area F. Will not count in Area D.

MATH 2072 CALCULUS II  
Prerequisite: MATH 1161 (minimum grade of C) or MATH 1161H (minimum grade of C)  
Techniques and applications of integration; transcendental functions; indeterminate forms; improper integrals; parametric equations and polar coordinates; sequences and series; Taylor’s theorem.

MATH 2083 CALCULUS III  
Prerequisite: MATH 2072 (minimum grade of C)  
Vectors, curves, and surfaces; partial differentiation; multiple integrals; curve integrals and surface integrals; the theorems of Green and Stokes; the Divergence Theorem; introduction to differential equations.
MATH 2160 LINEAR ALGEBRA 3-0-3
Prerequisite: MATH 2072 (minimum grade of C)
Linear systems and matrices; vector spaces, linear independence, rank of a matrix; linear transformations;
determinants; introduction to eigenvalues and eigenvectors; diagonalization; applications.

MATH 2200 ELEMENTARY STATISTICS 3-0-3
Prerequisite: MATH 1001 or MATH 1101 or MATH 1111
Measures of central tendency and dispersion; probability distributions; inferences concerning means and
proportions; goodness of fit; correlation; linear regression.

MATH 3000 INTRODUCTION TO MATHEMATICAL PROOF 3-0-3
Prerequisite: MATH 2072 (minimum grade of C)
Elementary logic, set theory, functions and relations, methods of proof including induction, and selected topics
from major areas of mathematics.

MATH 3100 ABSTRACT ALGEBRA 3-0-3
Prerequisite: MATH 2083 and MATH 3000
Elementary properties of integers, groups, rings, and fields; mappings, homomorphisms, kernels, quotient
structures.

MATH 3170 ADVANCED LINEAR ALGEBRA 3-0-3
Prerequisite: MATH 2160 and MATH 3000
Abstract vector spaces, linear transformations, eigenvectors and eigenvalues, diagonalization, inner product
spaces, real quadratic forms.

MATH 3200 COMPUTATIONAL METHODS IN STATISTICS 3-0-3
Prerequisite: MATH 2200 and either ITEC 1050 or CSCI 1060
Data analyses including topics from elementary statistics; ANOVA, multiple regression and nonparametric
statistics using statistical software packages such as Minitab, SAS, or SPSS.

MATH 3251 COMBINATORICS 3-0-3
Prerequisite: MATH 3000
Counting principles such as permutations, combinations, derangements, pigeonhole, and inclusion/exclusion;
partitions; generating functions; recurrence relations; applications from graph theory and applied algebra.

MATH 3360 MODERN GEOMETRY 3-0-3
Prerequisite: MATH 3000
An axiomatic approach to the fundamental ideas of Euclidean geometry, including congruence, similarities,
circles, elementary transformations and constructions. Examination of non-Euclidean geometries.

MATH 3411 DIFFERENTIAL EQUATIONS 3-0-3
Prerequisite: MATH 2072 (minimum grade of C)
First order linear and nonlinear equations; second and higher order linear equations; applications; the Laplace
transform; numerical solution with emphasis on computer-aided solution.

MATH 3422 DIFFERENTIAL EQUATIONS II 3-0-3
Prerequisite: MATH 3411
Series solutions; linear and nonlinear first order systems; applications; numerical methods; boundary value
problems; introduction to Fourier series and partial differential equations.

MATH 3440 INTRODUCTION TO OPERATIONS RESEARCH 3-0-3
Prerequisite: MATH 2160 and either STAT 3211 or STAT 3231 or permission of instructor
Linear programming topics including simplex algorithm, sensitivity analysis, duality, modeling; Additional topics
from project management, decision analysis, queuing theory, simulation, dynamic programming, game theory.

MATH 3480 OPTIMIZATION 3-0-3
Prerequisite: MATH 2160
Operations research topics including nonlinear programming, network analysis, Markov chains, game theory,
and inventory theory.
MATH 3900 SPECIAL TOPICS IN APPLIED MATHEMATICS  V-V-(1-3)  
Prerequisite: announced with the course  
Special topics of current interest in upper-level applied mathematics.

MATH 3911 ALGORITHMS AND NUMBER SYSTEMS: A LABORATORY APPROACH  2-3-3  
Prerequisite: a passing grade on GACE I and either MATH 1113 or MATH 2008  
A laboratory approach to the study of mathematics. Topics include problem solving; sets; functions; numeration systems; and the integer, rational, and real number systems.

MATH 3912 GEOMETRY AND DATA ANALYSIS: A LABORATORY APPROACH  2-3-3  
Prerequisite: A grade of C or better in EDUC 3100 and either MATH 1113 or MATH 3911  
A laboratory approach to the study of mathematics. Topics include geometry, measurement, probability, statistics, and motion geometry.

MATH 3932 MATHEMATICAL REASONING AND REPRESENTATION  3-0-3  
Prerequisite: Either MATH 1113 and MATH 3912, or MATH 1161  
A laboratory approach to the study of mathematics. Topics include methods of reasoning and proof; algebraic structures; conceptual consideration of functions; regression; recursion; proportional reasoning; analytic and transformational geometry; and rational, integer and real number arithmetic.

MATH 4000 PUTNAM SEMINAR  0-2-1  
Prerequisite: MATH 2083  
A variety of mathematical problems, considered with the aim of developing problem-solving techniques.

MATH 4011 ADVANCED CALCULUS I  3-0-3  
Prerequisite: MATH 2083 and MATH 3000  
The real number system; sequences and series; limits of functions, the Bolzano-Weierstrass theorem; uniform continuity; the derivative.

MATH 4022 ADVANCED CALCULUS II  3-0-3  
Prerequisite: MATH 4011  
The Riemann integral; metric spaces; compactness; sequences of functions; uniform convergence.

MATH 4060 FUNCTIONS OF A COMPLEX VARIABLE  3-0-3  
Prerequisite: MATH 2083  
Complex numbers; elementary functions and transformations; differentiation; analytic functions; integration theory; series; residue theory; conformal mapping and applications.

MATH 4200 ACTUARIAL SCIENCE SEMINAR  (1-3)-0-(1-3)  
Prerequisite: STAT 3222 or STAT 3232  
Study of topics related to a career in actuarial science.

MATH 4340 GRAPH THEORY  3-0-3  
Prerequisite: MATH 3000  
Graphs and digraphs, trees, connectivity, matchings, paths, cycles, bipartite graphs, Euler’s formula, planar graphs, and graph coloring.

MATH 4360 TOPOLOGY  3-0-3  
Prerequisite: MATH 2083 and MATH 3000  
Topological spaces and homeomorphisms, separability, compactness, connectedness; completeness; metrizability; introduction to homotopy theory.

MATH 4400 OPERATIONS RESEARCH SEMINAR  (1-3)-0-(1-3)  
Prerequisite: MATH 3460  
Study of topics related to a career in operations research.
MATH 4610 NUMERICAL ANALYSIS 3-0-3
Prerequisite: MATH 2072 and CSCI 1301
An introductory course in numerical analysis and computation. Topics include computer arithmetic and numerical error, systems of linear equations, iterative methods for nonlinear equations, polynomial interpolation, least squares approximation, and numerical integration. Crosslisted as CSCI 5610U.

MATH 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission into the College of Education; completion of all coursework
Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in the 6-12 public school setting. A capstone course.

MATH 4900 SPECIAL TOPICS V-V-(1-3)
Prerequisite: announced with the topic
Special topics of current interest in upper-level mathematics.

MATH 4910 HONORS PROJECT IN MATHEMATICS (1-3)-0-(1-3)
Prerequisite: permission of instructor
Open only to seniors. Independent reading or research in the mathematical sciences, including a presentation to an appropriate audience.

MATH 4961, -2, -3 INTERNSHIP IN MATHEMATICS 0-6-3
Prerequisite: permission of instructor or department
Experience in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of faculty and appropriate off-campus supervisory personnel. Open to transient students only with the permission of the department head.

MATH 5160U THEORY OF NUMBERS 3-0-3
Prerequisite: MATH 3000
A survey of topics from number theory to include divisibility and congruence, diophantine equations, distribution of prime numbers, famous unsolved problems, number-theoretic functions and their applications, theorems of Fermat and Euler.

MATH 5412U SECONDARY SCHOOL CURRICULUM AND METHODS 3-0-3
Prerequisite: Admission to the College of Education and completion of MATH 3932
Materials and methods of teaching secondary school mathematics including field experience.

MATH 5600U FOUNDATIONS OF MATHEMATICS 3-0-3
Prerequisite: MATH 2072
Fundamental ideas of axiomatic mathematics, including sets, relations, functions, algebraic structures, with emphasis on techniques of writing proofs.

MATH 5700U HISTORY OF MATHEMATICS 3-0-3
Prerequisite: MATH 3000
The historical development of mathematics from its empirical beginnings to its present state.

MATH 5900U TOPICS IN MATHEMATICS V-V-(1-3)
Prerequisite: permission of instructor or department
Special topics of current interest in upper-level mathematics.

MATH 5911U TOPICS IN MATHEMATICS FOR EDUCATORS 3-0-3
Prerequisite: MATH 3911 or MATH 3912
Topics in mathematics designed for preservice and inservice elementary and middle grades teachers.

MATH – Medical Laboratory Science
MEDT 3100 URINALYSIS AND BODY FLUIDS 2-2-2
Open only to medical technology majors. Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids. Includes practice of manual and automated procedures and their relationship to diagnosing disease.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>307</th>
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<tbody>
<tr>
<td>MEDT 3110 URINALYSIS AND BODY FLUIDS</td>
<td>2-0-2</td>
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<tr>
<td>Prerequisite: admission to MT program</td>
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<tr>
<td>Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids.</td>
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<tr>
<td>MEDT 3200 CLINICAL BACTERIOLOGY</td>
<td>4-4-5</td>
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<tr>
<td>Open only to medical technology majors. The relationship of bacteria, mycobacteria, spirochaetes, and mycoplasmas to human disease with an emphasis on the isolation and identification of pathogenic bacteria.</td>
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<td>MEDT 3210 CLINICAL BACTERIOLOGY</td>
<td>4-0-4</td>
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<tr>
<td>Prerequisite: admission to MT program</td>
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<tr>
<td>MEDT 3300 CLINICAL HEMATOLOGY AND HEMOSTASIS</td>
<td>4-4-5</td>
</tr>
<tr>
<td>Only open to medical technology majors. Study of pathology and physiology of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results. Manual and automated laboratory procedures are performed based on principles of hematology and hemostasis.</td>
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<tr>
<td>MEDT 3310 CLINICAL HEMATOLOGY AND HEMOSTASIS</td>
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<td>Study of pathology and physiology of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results.</td>
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<tr>
<td>MEDT 3400 CLINICAL IMMUNOHEMATOLOGY</td>
<td>4-3-5</td>
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<tr>
<td>Open only to medical technology majors. Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components including the selection and processing of donors, cross matching procedures, and antibody identification.</td>
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<tr>
<td>MEDT 3410 CLINICAL IMMUNOHEMATOLOGY</td>
<td>4-0-4</td>
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<tr>
<td>Prerequisite: admission to MT program</td>
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<td>Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components. Includes the selection and processing of donors, cross matching procedures, and antibody identification.</td>
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<tr>
<td>MEDT 3500 CLINICAL CHEMISTRY</td>
<td>4-3-5</td>
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<tr>
<td>Open only to medical technology majors. Focus on physiological principles and concepts, methodologies and clinical significance of biochemicals and elements found in blood and other body fluids. Manual and automated laboratory procedures are performed with an emphasis on quality control and quality assurance. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.</td>
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<tr>
<td>MEDT 3510 CLINICAL CHEMISTRY</td>
<td>4-0-4</td>
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<tr>
<td>Prerequisite: admission to MT program</td>
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<tr>
<td>Focus on physiological principles and concepts, methodologies and clinical significance of biochemical and elements found in body fluids and other body fluids. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.</td>
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<tr>
<td>MEDT 3600 CLINICAL LABORATORY METHODOLOGIES AND MOLECULAR DIAGNOSTICS</td>
<td>3-2-3</td>
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<tr>
<td>Prerequisite: Admission to Medical Laboratory Science program.</td>
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<tr>
<td>A basic introduction to the clinical laboratory focusing on topics in laboratory safety, microscopy, phlebotomy, general laboratory equipment, quality assurance, laboratory mathematics, and principles and methodologies of clinical laboratory instrumentation. This course will also familiarize students with the basics of molecular diagnostics technology and the types of tests available.</td>
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<tr>
<td>MEDT 3610 CLINICAL LABORATORY METHODOLOGIES AND MOLECULAR DIAGNOSTICS</td>
<td>3-0-2</td>
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<tr>
<td>Prerequisite: Admission to Medical Laboratory Science career ladder track.</td>
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<tr>
<td>Principles and operation of clinical laboratory instrumentation. This course will also familiarize students with the basics of molecular diagnostics technology and the types of tests available.</td>
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MEDT 3700 CLINICAL IMMUNOLOGY  2-2-3
Prerequisite: Admission to Medical Laboratory Science program
Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies. Includes laboratory component.

MEDT 3710 CLINICAL IMMUNOLOGY  2-0-2
Prerequisite: Admission to Medical Laboratory Science career ladder track.
Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies.

MEDT 3800 CLINICAL MICROBIOLOGY  2-2-3
Open only to medical technology majors. Pathogenesis and laboratory identification of human parasites and clinically significant fungi and viruses.

MEDT 3810 CLINICAL MICROBIOLOGY  2-2-3
Prerequisite: Admission to MT program
Only open to medical technology majors. Pathogenesis and laboratory identification of human parasites and clinically significant fungi and viruses.

MEDT 4000 DIRECTED STUDY  3-3-1
Prerequisite: permission of instructor or department
Selected medical technology topics. Credit varies by topic. Offered on demand.

MEDT 4115 CLINICAL PRACTICUM  0-V-(1-9)
Prerequisite: MEDT 3100, MEDT 3200, MEDT 3300, MEDT 3400, MEDT 3500, MEDT 3600, MEDT 3700, MEDT 3800, or admission to the Medical Laboratory Science Online program.
Structured clinical laboratory experiences. Rotations will include clinical microbiology, clinical chemistry, immunohematology, hematology, coagulation, immunology/serology, urinalysis, phlebotomy and molecular diagnostic testing.

MEDT 4600 CLINICAL PATHWAYS AND CRITICAL DECISION MAKING  5-0-5
Prerequisite or corequisite: MEDT 4115
Advanced topics in clinical laboratory science, emphasizing analysis and presentation of multi-disciplinary case studies.

MEDT 4900 LABORATORY MANAGEMENT AND EDUCATION  3-0-3
Prerequisite or corequisite: MEDT 4115
Fundamental concepts of laboratory management, operation, finance, managerial leadership, personnel administration, and educational principles for laboratory scientists.

MEDT 499H HONORS THESIS IN MEDICAL TECHNOLOGY  0-3-3
Prerequisite: MEDT 3000-3900 and acceptance into the Honors Program
A research project under the supervision of a departmental faculty committee. Project must include a thesis and oral presentation.

METR – Meteorology
METR 3100 INTRODUCTION TO METEOROLOGY  3-0-3
Prerequisite: 6 semester hours of science
Introduction to the description of the state of the atmosphere and the physical laws that describe atmospheric phenomena.

MGMT – Management
MGMT 3111 BUSINESS SKILLS  3-0-3
Prerequisite: Must have completed a minimum of 60 credit hours.
A project-based class for students in all majors. Focuses on basic knowledge and skills needed to start a commercial business or begin a career. Topics include basic marketing, financial, and management concepts that promote individual talents, create career opportunities, and create financial gain from skills and talents developed in any discipline. May not be used for the Business Economics major.
COURSE DESCRIPTIONS

MGMT 3220 MANAGEMENT 3-0-3
Prerequisite: ECON 2106
Management of organizations with an emphasis on the fundamentals of organizational behavior. Topics include organizational structure, leadership, communication, motivation, group dynamics, decision-making, planning, and controlling. Business ethics and the roles and functions of managers are integrated throughout all these topics.

MGMT 4111 ENTREPRENEURSHIP 3-0-3
Prerequisite: MKTG 3210 and ECON 3230 or permission of instructor
A project based class focusing on the application of economic principles to real-world business formation and management. This course provides instruction in both the legal and logistical requirements of starting a business and serves as a forum for development of business ideas and practices.

MGSE – Middle Grades/Secondary Education
MGSE 4900 INDEPENDENT STUDY 0-V-(1-3)
Prerequisite: Permission of department head
In-depth, closely supervised, instructor-approved study in education.

MGSE 5420U GEOGRAPHY FOR THE MIDDLE GRADES TEACHER 3-0-3
Prerequisite: Admission into candidacy in the College of Education and EDUC 3200
Current issues and trends in teaching middle grades geography.

MHSA – Health Services Administration
MHSA 5500U MANAGING HEALTH PROFESSIONALS 3-0-3
Examines the differences between management and clinical professionals and explores ways to better integrate these sometimes divergent interests, cultures, values, and concerns in health services organizations.

MHSA 5650U SEMINAR IN LONG TERM CARE ADMINISTRATION 1-0-1
Statutory guidelines, facility licensing requirements, Medicare/Medicaid requirements for reimbursement, and items necessary for successful completion of Georgia state nursing home administrator licensure examination.

MHSA 5800U COMPARATIVE HEALTH CARE SYSTEMS 3-0-3
Prerequisite HSCC 2500
An in depth survey of the structure, function, and comparative performance of a variety of health care delivery and financing systems in the U.S. and other nations of the world.

MILS – Military Science Courses
MILS 1101 INTRODUCTION TO MILITARY SCIENCE AND SKILLS DEVELOPMENT 2-1-2
Instruction provides a basic understanding of the U.S. Army and its role in National Defense. The course includes the following subjects: the role of the U.S. Army in national defense, organization and branches of the U.S. Army, ROTC and its role, customs and traditions of the service, military writing, implementing a personal physical fitness program, role of the ARNG and USAR, and roles of the commissioned and non-commissioned officer. Skills development includes instruction and practical exercises in basic mountaineering skills including knot tying, climbing, belaying, and rappelling. Acceptable as a P.E. requirement.

MILS 1102 BASIC MILITARY LEADERSHIP 2-1-2
Development of critical military skills, leadership, and management techniques. Provides basic leadership techniques and principles, professional ethics, and senior subordinate relationships. One weekend field trip is required.

MILS 2001 EVOLUTION OF WARFARE 2-0-2
Science and art of warfare as practiced by American military leaders from the French and Indian Wars through present times. The role of the U.S. Army is also examined in its social, economic, and political contexts.

MILS 2201 BASIC MILITARY SKILLS 2-1-2
Instruction and practical exercises covering basic skills necessary as a future leader in the U.S. Army. Includes the following subjects: land navigation and map reading, basic first aid, survival, and communications.
MILS 2202 BASIC MILITARY TACTICS  2-1-2
Instruction introduces students to the fundamentals of Army leadership and management techniques. Focus is placed on the mission, organization, and composition of small unit teams; principles of offensive and defensive operations stressing firepower, movement, and communications techniques; and introduction to troop leading procedures.

MILS 2250 LEADERS TRAINING COURSE (LTC)  3-2-3
V-V-5
Intense summer program conducted at Ft. Knox, Kentucky for six weeks. Designed as an alternative method to meet the Prerequisite of the advanced course for students who have had no basic course military science instruction.

MILS 3301 ADVANCED TACTICS AND APPLIED LEADERSHIP I  3-2-3
Instruction on the principles of leadership and the leader’s role in directing small units in a variety of tactical scenarios. Emphasis is placed on developing and executing orders, troop leading procedures, and squad tactical reaction procedures. Land navigation and communication subjects are also included in the course.

MILS 3302 ADVANCED TACTICS AND APPLIED LEADERSHIP II  3-2-3
Continued instruction on the principles of leadership and the leaders’ role in directing small units in a tactical environment. Emphasis is placed on offensive and defensive tactics, patrolling techniques, and conducting after action reviews. Instruction on management and leadership techniques emphasizes Green Tab Leadership and leadership assessment.

MILS 3350 ADVANCED MILITARY SKILLS PRACTICUM (LDAC)  3-2-3
V-V-5
Practical application of military skills and leadership ability during a six week encampment experience. Encampment and training is conducted at Ft. Louis, WA. Instruction and evaluation done by U.S. Army ROTC Cadet Command.

MILS 4401 MILITARY LEADERSHIP AND MANAGEMENT SEMINAR  3-1-3
Instruction covers U.S. Army Command and Staff functions. Military and professional knowledge topics include writing in the Army style, oral communications, conducting briefings, preparing to conduct training, and evaluating training.

MILS 4402 TRANSITION TO AN ARMY LIEUTENANT  3-1-3
Instruction prepares MS IV cadets in their transition from cadet/student to commissioned officer. The course also covers Military Law, the Law of Land Warfare, and additional basic knowledge an individual needs to become a professional officer.

MKTG – Marketing
MKTG 3210 MARKETING  3-0-3
Prerequisite: ECON 2106
Marketing functions, the activities of producers, wholesalers, retailers and other intermediaries, the channels of distribution, integration of the marketing functions, price policies and government regulation.

MKTG 3800 QUANTITATIVE MARKETING RESEARCH  3-0-3
Prerequisite: ECON 2106 and MATH 2200
Research design, data sources and collection, project and client management, data analysis, and reporting/presentation of empirical results pertaining to quantitative studies of consumer behavior. Requires use of computers for statistical analysis and presentations.

MUSC – Music
MUSC 1000 RECITAL ATTENDANCE  0-2-0
Attendance at a designated number of concerts and recitals each semester.

MUSC 1100 MUSIC APPRECIATION  3-0-3
Introduction to music history and literature.
COURSE DESCRIPTIONS

MUSC 1110 BASIC MUSIC THEORY 3-0-3
Elements of music theory. Functions as preparation for MUSC1111 for music majors who have not passed the music theory entrance exam. May not be used for credit towards a music degree.

MUSC 1200 FOUNDATIONS OF MUSIC THEORY 3-0-3
Co-requisites: MUSC 1210, MUSC 1230
Basic theoretical principles of music, including analysis. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1210 AURAL SKILLS I 0-2-1
Co-requisites: MUSC 1200, MUSC 1230
Introduction to the principles of the solfege system for sight singing, and dictation of musical patterns found in common practice (rhythmic, melodic, and harmonic). Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1230 KEYBOARD HARMONY I 0-2-1
Prerequisite: Music major status or permission of instructor or department.
Co-requisites: MUSC 1200, MUSC 1210
Introduction to keyboard techniques, focusing on reinforcement of theoretical concepts covered in MUSC 1200, Foundations of Music Theory, and MUSC 1210, Aural Skills I. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1270 WORLD ART AND MUSIC 3-0-3
Comparison of traditional art and music from a variety of world cultures. Emphasis on art and music’s role, media and techniques, and the inherent personal expression of various artists and composers. Crosslisted as ARTS 1270.

MUSC 1300 APPLIED MUSIC 0-1-1
Prerequisite: permission of instructor or department
Offered primarily for music majors, with a limited number of non-majors accepted when schedules permit. Students must pass a qualifying audition. Consists of one 25-minute private lesson per week; additionally all students enrolled in applied music are required to participate in weekly performance classes. Applicable to music degree only for secondary applied credit. May be repeated for credit.

MUSC 1400 APPLIED MUSIC 0-2-2
Prerequisite: permission of instructor or department
Corequisite: MUSC 3540 or MUSC 3560
Offered for music majors. Students must pass a qualifying audition. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 1500 DIATONIC MUSIC THEORY 3-0-3
Prerequisite: MUSC 1200, MUSC 1210, and MUSC 1230
Co-requisites: MUSC 1510, MUSC 1530
This course focuses on diatonic harmony, four-part style writing, and structural analysis, building on the concepts and principles covered in MUSC 1200, Foundations of Music Theory. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1510 AURAL SKILLS II 0-2-1
Prerequisite: MUSC 1200, MUSC 1210, and MUSC 1230
Co-requisites: MUSC 1500, MUSC 1530
Techniques using the principles of the solfege system for sight singing diatonic melodies, and dictation of musical patterns found in common diatonic practice (rhythmic, melodic, and harmonic). Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1530 KEYBOARD HARMONY II 0-2-1
Prerequisite: MUSC 1200, MUSC 1210, and MUSC 1230; or permission of instructor or department.
Co-requisites: MUSC 1500, MUSC 1510
Exploration of keyboard techniques, focusing on reinforcement of theoretical concepts covered in MUSC 1500, Diatonic Music Theory, and MUSC 1510, Aural Skills II. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite/Co-requisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2010</td>
<td>UNDERSTANDING JAZZ</td>
<td>2-0-2</td>
<td></td>
</tr>
<tr>
<td>MUSC 2100</td>
<td>CHROMATIC MUSIC THEORY</td>
<td>3-0-3</td>
<td>MUSC 1500, MUSC 1510, MUSC 1530; or permission of instructor or department.</td>
</tr>
<tr>
<td>MUSC 2110</td>
<td>AURAL SKILLS III</td>
<td>0-2-1</td>
<td>MUSC 1500, MUSC 1510, MUSC 1530</td>
</tr>
<tr>
<td>MUSC 2130</td>
<td>KEYBOARD HARMONY III</td>
<td>0-2-1</td>
<td>MUSC 1500, MUSC 1510, MUSC 1530; or permission of instructor or department.</td>
</tr>
<tr>
<td>MUSC 2171</td>
<td>LYRIC DICTION I</td>
<td>2-0-2</td>
<td>permission of instructor or department</td>
</tr>
<tr>
<td>MUSC 2201</td>
<td>JAZZ IMPROVISATION I</td>
<td>0-2-1</td>
<td>MUSC 1200 and MUSC 1210</td>
</tr>
<tr>
<td>MUSC 2202</td>
<td>JAZZ IMPROVISATION II</td>
<td>0-2-1</td>
<td>MUSC 2201, Continuation of MUSC 2201.</td>
</tr>
<tr>
<td>MUSC 2270</td>
<td>CLASS VOICE</td>
<td>0-2-1</td>
<td>ability to read music, Vocal technique with practical application to standard song literature. Applicable to a music degree only for secondary applied credit. May be repeated for credit. Ability to read music required.</td>
</tr>
<tr>
<td>MUSC 2280</td>
<td>CLASS PIANO NON-MUSIC MAJORS</td>
<td>0-2-1</td>
<td>permission of instructor or department, Keyboard literature and techniques at the beginning and elementary levels. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSC 2360</td>
<td>BRASS METHODS</td>
<td>0-2-1</td>
<td>Open only to music majors. Principles of brass instrument performance and pedagogy.</td>
</tr>
<tr>
<td>MUSC 2370</td>
<td>WOODWIND METHODS</td>
<td>0-2-1</td>
<td>Open only to music majors. Principles of woodwind performance and pedagogy.</td>
</tr>
<tr>
<td>MUSC 2380</td>
<td>PERCUSSION METHODS</td>
<td>0-2-1</td>
<td>Open only to music majors. Principles of percussion instrument performance and pedagogy.</td>
</tr>
<tr>
<td>MUSC 2390</td>
<td>STRING METHODS</td>
<td>0-2-1</td>
<td>Open only to music majors. Principles of string instrument performance and pedagogy.</td>
</tr>
</tbody>
</table>
MUSC 2400 APPLIED MUSIC  
0-2-2  
Prerequisite: permission of instructor or department and 2 semesters of MUSC 1400 with a grade of “C” or higher. 
Corequisite: MUSC 3540 or MUSC 3560  
Open only to music majors. Students must pass a qualifying audition. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 2580 KEYBOARD ACCOMPANYING  
1-1-2  
Open only to music majors. Basic principles of accompaniment for vocal and instrumental solo and chamber music.

MUSC 2810 CONDUCTING  
1-1-1  
Prerequisite: MUSC 1500 and MUSC 1510  
Open only to music majors. Conducting techniques and interpretation.

MUSC 3120 FORM AND ANALYSIS  
2-0-2  
Prerequisite: MUSC 2100 and MUSC 2110  
Open only to music majors. Principles of form in music, including imitative techniques and forms, and techniques of harmonic analysis.

MUSC 3200 MUSIC FOR THE ELEMENTARY TEACHER  
2-1-2  
Prerequisite: admission to candidacy in the Department of Early Childhood. Materials and methods for teaching general music in the elementary classroom. Not open to music majors.

MUSC 3400 APPLIED MUSIC  
0-2-2  
Prerequisite: MUSC 2100, MUSC 2110, MUSC 2130, 2 semesters of MUSC 2400 with a grade of “C” or higher, permission of instructor or department and passage of rising junior exam  
Corequisite: MUSC 3540 or MUSC 3560  
Open only to music majors. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 3450 HALF RECITAL  
0-1-0  
Co-requisite: MUSC 3400  
Open only to music majors. Junior-level public performance of 25-30 minutes of appropriate repertoire for major instrument, voice, or keyboard studied. Successful completion of recital preview required prior to performance.

MUSC 3470 MUSIC MANAGEMENT  
3-0-3  
Prerequisite: ENGL 1101  
Theory and practice in music programming management, including audience analysis and development, publicity, promotions, and marketing tools examined.

MUSC 3510 SAVANNAH WINDS  
0-2-1  
Rehearsals and performances of standard literature for symphonic band.

MUSC 3520 JAZZ ENSEMBLE  
0-2-1  
Prerequisite: permission of instructor or department  
Repertoire selected from a variety of jazz periods and styles. Public performances required.

MUSC 3530 UNIVERSITY SINGERS  
0-2-1  
Corequisite: MUSC 3540  
Repertoire selected from vocal chamber literature including classic literature and vocal jazz. Public performances each term. Membership open to all students by audition.

MUSC 3540 UNIVERSITY CHORALE  
0-3-1  
Repertoire selected from standard choral concert literature. Public performances each term.

MUSC 3550 CHAMBER ENSEMBLE  
0-2-1  
Open to all qualified students in the performance media of brass, woodwind, strings, keyboard, and percussion.

MUSC 3560 WIND ENSEMBLE  
0-3-1  
Repertoire selection from the standard wind ensemble literature. Public performances required.
MUSC 3570 JAZZ COMBO 0-2-1
Prerequisite: Permission of instructor or department
Repertoire selected from a variety of jazz periods and styles for a small group setting.

MUSC 3580 PERCUSSION ENSEMBLE 0-2-1
Prerequisite: Permission of instructor or department
Repertoire selected from percussion ensemble literature.

MUSC 3610 ORCHESTRATION AND ARRANGING 2-0-2
Prerequisite: MUSC 2100 and MUSC 2110
Open only to music majors. Techniques of orchestration; arranging for instrumental and choral groups.

MUSC 3710 MUSIC HISTORY I 3-0-3
Prerequisite: MUSC 1100 and MUSC 1200 and MUSC 1210 and MUSC 1230
History of music in western civilization from origin to end of baroque era.

MUSC 3720 MUSIC HISTORY II 3-0-3
Prerequisite: MUSC 1100 and MUSC 1200 and MUSC 1210 and MUSC 1230
History of music in western civilization from classical era to present; influence of world music.

MUSC 3760 INTERNSHIP I - PRE-STUDENT TEACHING 0-V-1
Prerequisite: admission to candidacy in the Department of Art, Music and Theatre
Directed practice in the teaching of students in P-12 public school setting.

MUSC 4110 COMPOSITION V-V-V
Prerequisite: MUSC 2100 and MUSC 2110
Open only to music majors. Musical composition. May be repeated for credit.

MUSC 4120 COUNTERPOINT 2-0-2
Prerequisite: MUSC 2100 and MUSC 2110
Open only to music majors. Contrapuntal practices of eighteenth century music.

MUSC 4160 INSTRUMENTAL PEDAGOGY AND REPERTOIRE 2-0-2
Prerequisite: permission of instructor or depart. MUSC 2360 or 2370 or 2380 or 2390, appropriate to major instrument. Successful completion of MUSC 3450 - Half Recital.
Instrumental pedagogical techniques and survey of literature for brass, woodwind, strings or percussion instruments.

MUSC 4200 PIANO LITERATURE I 2-0-2
Historical, stylistic, formal and aesthetic features of piano literature of the baroque and classical periods.

MUSC 4210 PIANO LITERATURE II 2-0-2
Historical, stylistic, formal, and aesthetic features of piano literature of the romantic and contemporary periods.

MUSC 4250 KEYBOARD PEDAGOGY 2-0-2
Open only to music majors. Historical overview of pedagogical techniques of the piano and a survey of literature suited for teaching purposes.

MUSC 4251 GROUP KEYBOARD PEDAGOGY 1-1-1
Open only to music majors, or by permission of the instructor. An overview of pedagogical materials appropriate to group instruction, incorporating electronic keyboard labs, for primary, secondary, and adult educational levels.

MUSC 4270 VOCAL PEDAGOGY 2-0-2
Prerequisite: permission of instructor or department
Pedagogical techniques of the voice and a survey of literature suited for teaching purposes. Successful completion of the Rising Junior Voice Exam required.

MUSC 4290 ART SONG 2-0-2
Prerequisite: MUSC 1100
Historical, stylistic, formal, and aesthetic characteristics of the art song from its origins to the present day.
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MUSC 4320</td>
<td>SYMPHONIC MUSIC LITERATURE</td>
<td>2-0-2</td>
<td>Historical, stylistic, formal, and aesthetic features of symphonic music.</td>
</tr>
<tr>
<td>MUSC 4350</td>
<td>BAND REPERTOIRE AND ADVANCED INSTRUMENTAL CONDUCTING</td>
<td>3-1-3</td>
<td>Prerequisite: MUSC 2810 and successful completion of piano proficiency exam, and either MUSC 3120 or MUSC 3610. Open only to music majors. Literature and performance practice for school instrumental ensembles. Advanced techniques in instrumental conducting. Includes a laboratory experience.</td>
</tr>
<tr>
<td>MUSC 4360</td>
<td>CHORAL REPERTOIRE AND ADVANCED CHORAL CONDUCTING</td>
<td>3-1-3</td>
<td>Prerequisite: MUSC 2810, successful completion of piano proficiency exam and either MUSC 3120 or MUSC 3610. Open only to music majors. Literature and related performance practice for school choral ensembles. Advanced techniques in choral conducting. Includes a laboratory experience.</td>
</tr>
<tr>
<td>MUSC 4400</td>
<td>APPLIED MUSIC</td>
<td>0-3-3</td>
<td>Prerequisite: permission of instructor or department and MUSC 3400. Open only to music majors. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSC 4450</td>
<td>FULL RECITAL</td>
<td>0-2-0</td>
<td>Co-requisite: MUSC 3540. Open only to music majors. Senior-level public performance of 50-60 minutes of appropriate repertoire for major instrument, voice, or keyboard studied. Successful completion of recital preview required prior to performance.</td>
</tr>
<tr>
<td>MUSC 4460</td>
<td>COMPOSITION PORTFOLIO</td>
<td>0-4-2</td>
<td>Prerequisite: six semester hours of MUSC 4110. Development of an original body of work for a variety of performance media. Includes public presentation of the material in a performance organized by the student.</td>
</tr>
<tr>
<td>MUSC 4760</td>
<td>INTERNSHIP II - STUDENT TEACHING</td>
<td>0-V-12</td>
<td>Prerequisite: admission to candidacy in the Department of Art, Music and Theatre; completion of all coursework. Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting. A capstone course.</td>
</tr>
<tr>
<td>MUSC 4850</td>
<td>SENIOR PROJECT</td>
<td>0-4-2</td>
<td>Prerequisite: MUSC 2810 and either MUSC 3120 or MUSC 3610 and successful completion of piano proficiency exam. Open only to music majors. Written research document submitted for faculty review to address senior recital program. May include: composer biography, program notes, translations (if applicable), formal analysis, genre parameters or other material, as approved by the department.</td>
</tr>
<tr>
<td>MUSC 4890</td>
<td>SELECTED STUDIES IN MUSIC</td>
<td>V-V-(1-5)</td>
<td>Prerequisite: permission of instructor or department. Varied course offerings designed to meet special institutional and community needs. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSC 4900</td>
<td>DIRECTED INDIVIDUAL STUDY</td>
<td>V-V-(1-5)</td>
<td>Prerequisite: permission of instructor or department. Open only to music majors. Supervised individual research or study.</td>
</tr>
<tr>
<td>MUSC 4910</td>
<td>INTERNSHIP</td>
<td>V-V-(1-5)</td>
<td>Prerequisite: permission of instructor or department. Open only to music majors. Supervised individually designed course project involving off-campus study, work, and/or research. Projects are under the joint supervision of the sponsoring institution and the faculty supervisor.</td>
</tr>
</tbody>
</table>
MUSC 5300U CURRICULUM AND METHODS IN GENERAL MUSIC 3-2-3
Prerequisite: admission to candidacy in the Department of Art, Music and Theatre
Open only to music majors. Overview of curriculum, methods, classroom management and technology appropriate for P–8 general music programs. Twenty hours of practicum work is required.

MUSC 5330U BAND METHODS 2-1-2
Prerequisite: MUSC 2810 and admission to candidacy in the Department of Art, Music and Theatre or permission of instructor
Organization and development of school concert and marching band ensembles. Includes a laboratory experience.

MUSC 5340U CHORAL METHODS 2-1-2
Prerequisite: MUSC 2810 and admission to candidacy in the Department of Art, Music and Theatre or permission of instructor
Organization and development of choral ensembles in secondary schools. Includes a laboratory experience.

MUSC 5430U TECHNOLOGY IN MUSIC 2-1-2
Prerequisite: acceptance into the Music Program, or by permission of instructor.
Examination of the impact of technology on music and music education, with an emphasis on computer music notation. Other topics may include Musical Instrument Digital Interface (MIDI), basic sequencing software, technology applications for live music, and basic audio recording skills.

NSCI – Naval Science Courses (Savannah State University)
NSCI 1001 INTRODUCTION TO NAVAL SCIENCE 3-0-3
Introduces midshipmen to NROTC Program mission, organization, regulations and broad warfare components of the naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement and retirement policies. This course also covers naval courtesy and customs, as well as a study of the organization of the naval service. Students are familiarized with the major challenges facing today’s naval officers, especially, in the areas of leadership and human resources management.

NSCI 1002 SEAPower AND MARITIME AFFAIRS 3-0-3
A survey of American Naval and Maritime history from galley warfare to the present with emphasis on major developments. Attention will be focused on Mahan’s geopolitical theory; economic and maritime forces; U.S. military and maritime strategy; and a comparative analysis of American and foreign maritime strategies.

NSCI 1003 SAILING 3-0-3
Prerequisite: Certification as a third class swimmer
A foundation course that provides students with fundamental knowledge and skills to be competent crew members. The course covers the basic theory of sailing, nomenclature, seamanship, boat equipment and safety, and applicable inland waters navigation rules for sailing craft. Upon completion of this course, students will be Skipper “B” qualified. Practical skills to be mastered consist of rigging and sailing from a pier: sail to weather; sail two figure eight courses with two tacks and two jibes; man overboard maneuver; a capsize; return to dock and secure.

NSCI 2101 NAVAL SHIPS SYSTEMS I (ENGINEERING) 3-0-3
A detailed study of ship characteristics and types, including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control and damage control. Basic concepts of the theory and design of steam, gas turbine and nuclear propulsion, shipboard safety and firefighting are also covered.

NSCI 2102 LEADERSHIP AND MANAGEMENT 3-0-3
An introduction of management functions as they apply to routine daily military activities. The concepts of planning, organizing, staffing, directing, controlling and coordination are introduced and examined using lecture, seminar and case study methods. The course includes discussions on responsibility and accountability, power and influence, managerial theories, decision making, personnel appraisal, organizational structure and communications. Emphasis is placed on management of personnel and physical resources.
COURSE DESCRIPTIONS

NSCI 3003, -4 NAVIGATION I AND II 2-2-3
An in-depth study of piloting and celestial navigation theory, principles, and procedures, as well as the rules of the nautical road, ship employment and relative motion analysis. Students learn piloting navigation: the use of charts, visual and electronic aids, and the theory and operation of compasses. Students develop practical skills in piloting, celestial navigation, and relative motion analysis. Other topics include tides, currents, effects of wind and weather, use of navigational instruments, ship employment, types and characteristics of electronic navigation systems, naval command and control, and afloat naval communications.

NSCI 3101 EVOLUTION OF WARFARE 3-0-3
This course traces the historic development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, development and understanding of military alternatives, and become aware of the impact of historical precedent on military thought and actions.

NSCI 4001 NAVAL SHIPS SYSTEMS II (WEAPONS) 3-0-3
This course outlines the theory and employment of naval RADAR, SONAR, and weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance and naval ordnance. Fire control systems, major weapons types, and military platforms are discussed. The concept of command-control-communications and intelligence is explored as a means of weapons systems integration, as are space and electronic warfare.

NSCI 4050 NAVAL DRILL 0-2-0
Introduces the student to basic military formations, movements, commands, courtesies and honors, and provides practice in unit leadership and management. Physical conditioning and training are provided to ensure students meet Navy/Marine Corps physical fitness standards. Successful completion of two semesters by NROTC students satisfies Savannah State University’s physical education requirement. (NSCI 4050 is required every semester for all NROTC students.)

NSCI 4102 AMPHIBIOUS WARFARE 3-0-3
A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the twentieth century, especially, during World War II. Present day, potential, amphibious operations and their limitations, including the rapid deployment force concept, will be discussed.

NSCI 4104 LEADERSHIP AND ETHICS 3-0-3
A study of military leadership and management which investigates techniques and concepts of task accomplishment in the absence of a normative business environment. The course includes an examination of military law, ethical leadership, personal responsibility, authority and bureaucracy. The focus of discussion is on those aspects of leadership and management not normally present in civilian enterprise such as operation in the presence of hostility and morale management.

NUCM – Nuclear Medicine

NUCM 3001 NUCLEAR MEDICINE I 5-2-6
Prerequisite: Open to majors in Radiologic Sciences, Nuclear Medicine Track
Introduction to the theory, principals and, procedures of nuclear medicine. Basic principles involved in imaging, diagnoses, and therapies are emphasized.

NUCM 3002 NUCLEAR MEDICINE II 5-2-6
Prerequisite: NUCM 3001
Corequisite: RDSC 3002
Principles of radionuclide production and radiation detection. Topics include preparation and use of radiopharmaceuticals, decay modes, half-life, radiation interactions, radiation equipment and instrumentation applied to nuclear medicine imaging.

NUCM 3003 NUCLEAR MEDICINE III 3-0-3
Prerequisite: NUCM 3002
Advanced Nuclear Medicine Imaging. Topics include the principles of Positron Emission Tomography, radiopharmaceutical production and instrumentation of PET.
NUCM 3100 INTRODUCTION TO NUCLEAR MEDICINE CLINICAL EDUCATION 1-V-1
Prerequisite: NUCM 3001
Corequisite: NUCM 3002
Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

NUCM 4101 NUCLEAR MEDICINE CLINICAL EDUCATION I 0-V-5
Prerequisite: NUCM 3100, DDTS 3001
Supervised clinical practice in performing nuclear medicine procedures.

NUCM 4102 NUCLEAR MEDICINE CLINICAL EDUCATION II 0-V-6
Prerequisite: NUCM 4101
Supervised clinical practice in performing nuclear medicine procedures.

NUCM 4103 NUCLEAR MEDICINE CLINICAL EDUCATION III 0-V-9
Prerequisite: NUCM 4102
Supervised clinical practice in performing nuclear medicine and CT procedures.

NUCM 4200 NUCLEAR MEDICINE SYNTHESIS 3-0-3
Prerequisite: NUCM 3003 & NUCM 4102
A discussion of general and advanced theoretical concepts of Nuclear Medicine

NURS – Nursing
NURS 3304 PROFESSIONAL NURSING PRACTICE 3-0-3
Prerequisite: Admission to the BSN program
Theoretical concepts for the foundation of professional nursing

NURS 3309 PATHOPHYSIOLOGY 3-0-3
Prerequisite: Admission to the BSN program
Principles of pathophysiology with an emphasis on implications for nursing practice.

NURS 3312 PHARMACOLOGICAL CONCEPTS FOR NURSING I 3-0-3
Prerequisite: NURS 3344
Corequisite: NURS 3345
Principles of pharmacology with an emphasis on pharmacologic interventions for mental health and adult health nursing practice.

NURS 3314 PROFESSIONAL NURSING PRACTICE 3-0-3
Prerequisite: Admission to the Accelerated BSN program
Theoretical concepts for the foundation of professional nursing

NURS 3319 PATHOPHYSIOLOGY 3-0-3
Prerequisite: Admission to the Accelerated BSN program
Principles of pathophysiology with an emphasis on implications for nursing practice.

NURS 3320 HEALTH ASSESSMENT OF THE WELL INDIVIDUAL 3-3-4
Prerequisite: Admission to the BSN program
Prerequisite or corequisite: NURS 3304, 3309, 3344
Application of techniques to assess the well individual. Variations and risk factors related to age, gender, and ethnic origin will be explored.

NURS 3321 HEALTH ASSESSMENT OF THE WELL INDIVIDUAL 3-3-4
Prerequisite: Admission to the Accelerated BSN program
Prerequisite or corequisite: NURS 3314, 3319, 3334
Application of techniques to assess the well individual. Variations and risk factors related to age, gender, and ethnic origin will be explored.
NURS 3334 SKILLS AND ESSENTIALS OF NURSING PRACTICE 3-3-4
Prerequisite: Admission to the Accelerated BSN program
Application of basic and therapeutic patient care skills and interventions in simulated and clinical practice settings.

NURS 3344 SKILLS AND ESSENTIALS OF NURSING PRACTICE 3-3-4
Prerequisite or corequisite: Admission to the BSN program
Application of basic and therapeutic patient care skills and interventions in simulated and clinical practice settings.

NURS 3345 ADULT HEALTH I 4-6-6
Prerequisite: NURS 3320
Prerequisite or corequisite: NURS 3312
Therapeutic nursing interventions for adult clients with simple alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

NURS 3346 ADULT HEALTH I 4-6-6
Prerequisite: Admission to the Accelerated BSN program
Prerequisite or corequisite: NURS 3314, 3319, 3321, 3334, 3351
Therapeutic nursing interventions for adult clients with simple alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

NURS 3351 COMPREHENSIVE PHARMACOLOGY 5-0-5
Prerequisite: Admission to the Accelerated BSN program
Prerequisite or corequisite: NURS 3314, 3319, 3321, 3334, 3346
Principles of pharmacology with an emphasis on pharmacologic interventions across the lifespan for pediatric, adult, and mental health nursing practice.

NURS 3355 MENTAL HEALTH 4-6-6
Prerequisite: NURS 3320
Prerequisite or corequisite: NURS 3312
Health restoration of clients with disruptions in mental health.

NURS 3356 MENTAL HEALTH 4-6-6
Prerequisite: NURS 3346
Prerequisite or corequisite: NURS 4346, 4356, 4445
Health restoration of clients with disruptions in mental health.

NURS 3610 STRATEGIES FOR SUCCESS IN PROFESSIONAL NURSING 1-6-3
Prerequisite: First semester nursing courses, or permission of instructor
This elective course provides an opportunity for students to develop strategies for success in nursing. Learning style, study and testing techniques to enhance academic and professional performance are explored.

NURS 4000 PROFESSIONAL NURSING 3-0-3
Prerequisite: admission to the RN options program
Socialization process to promote role transition and the development of communication skills. Emphasizes development of written and oral communication skills.

NURS 4002 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSES 3-0-3
Prerequisite: NURS 4000
Application of leadership/management concepts, theories, and principles in the practice setting.

NURS 4004 HEALTH ASSESSMENT 3-3-4
Prerequisite: NURS 4000 and NURS 4008
Comprehensive health assessment of the individual, using didactic and laboratory activities with a health promotion focus.

NURS 4005 POPULATION FOCUSED COMMUNITY NURSING IN A GLOBAL SOCIETY 3-3-4
Prerequisite: admission to the RN options program
Population focused community nursing practice in a global society for registered nurses.
NURS 4006 PROFESSIONAL ROLE SYNTHESIS  
Prerequisite or corequisite: Taken in the final semester of nursing curriculum.  
Synthesis of nursing and core curriculum concepts to apply meaning to the role of professional nurse.

NURS 4008 PATHOPHYSIOLOGY/PHARMACOLOGY  
Prerequisite: Admission to the RN Options Program  
Prerequisite or corequisite: NURS 4000  
Principles of pathophysiology and pharmacology with an emphasis on implications for nursing practice.

NURS 4009: FOUNDATIONS OF HEALTHCARE INFORMATICS  
Prerequisite: Permission of the instructor  
Introduction to information technologies and systems that support healthcare delivery. Emphasis will be placed on utilizing health information technology to support decision-making, improve communication, and manage knowledge.

NURS 4010: LEGAL AND ETHICAL ISSUES IN NURSING  
Prerequisite: Permission of instructor  
Focuses on the legal and ethical rights, responsibilities, and obligations of the practicing nurse in a changing health environment.

NURS 4210 GERONTOLOGY IN THE 21ST CENTURY  
Prerequisite: NURS 3304, NURS 3320  
Explore normal aging, theories of aging, and the effect society has on the increasing geriatric population.

NURS 4211 VULNERABLE POPULATIONS  
Prerequisite: Admission to the BSN program or permission of course instructor  
This course provides an overview of vulnerable populations and the role of the nurse in the health care of these populations.

NURS 4212 INTERNATIONAL NURSING ISSUES AND TRENDS  
Prerequisite: Admission to the BSN program or permission of course instructor  
Explores the influence of culture, economics, politics, and technology on global health.

NURS 4213 INTRODUCTION TO FORENSIC NURSING AND THE LAW  
Prerequisite: NURS 3304, NURS 3320 and NURS 3344  
This course provides an introduction to the principles of forensic nursing and legal issues related to nursing practice.

NURS 4214 COMPLEMENTARY AND ALTERNATIVE MODALITIES  
Prerequisite: Admission to the BSN program or permission of the course instructor.  
This course provides an overview of complementary and alternative medicine (CAM). A variety of healing practices will be examined.

NURS 4215 HOME HEALTH NURSING  
Prerequisite: NURS 3345  
Therapeutic nursing interventions of clients in the home setting.

NURS 4216 PALLIATIVE/HOSPICE CARE  
Prerequisite: NURS 3345  
Explore and address critical aspects of care in all disease stages, including those undergoing treatment for curable illnesses and those living with chronic diseases, as well as patients who are nearing the end of life.

NURS 4217 CRITICAL CARE  
Prerequisite: NURS 3345  
Nursing care of the adult client in critical care settings with life threatening alterations in health. Emphasis is placed on the role of the professional nurse in the restoration and maintenance of health with clients and their families experiencing critical illness.

NURS 4218 PERIOPERATIVE NURSING  
Prerequisite: NURS 3345  
Explores the role of the nursing in the perioperative setting.
NURS 4219 NURSING PERSPECTIVES: THEN, NOW, AND THE FUTURE 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Analyzes the influences of significant historical nursing figures through present day as it influences the future of nursing.

NURS 4220 WOMEN AND LEADERSHIP IN NURSING 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Explores historical and contemporary perspectives and attitudes of women as nurses and leaders.

NURS 4221 NURSING PRACTICE IN THE MILITARY 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Examine the social, political, environmental, and global impact of military warfare on nursing practice in context of nursing leadership, practices and traditions.

NURS 4222 PEDIATRIC NURSING EXTERNSHIP 0-9-3
Prerequisite: NURS 4355
Nursing care of the complex pediatric client in the acute care setting.

NURS 4223 MATERNAL/INFANT NURSING EXTERNSHIP 0-9-3
Prerequisite: NURS 4355
Nursing care of the complex obstetric and neonatal client in the acute care setting.

NURS 4224 MEDICAL-SURGICAL ONCOLOGY NURSING EXTERNSHIP 0-9-3
Prerequisite: NURS 3345
Nursing care of the complex oncological client in the acute care setting.

NURS 4225 MEDICAL-SURGICAL NEUROSCIENCE NURSING EXTERNSHIP 1-6-3
Prerequisite: NURS 3345
Nursing care of the complex neurological client in the acute care setting.

NURS 4226 MEDICAL-SURGICAL COMPLEX MEDICAL NURSING EXTERNSHIP 0-9-3
Prerequisite: NURS 3345
Nursing care of the client with co-morbid conditions in the acute care setting.

NURS 4227 HEALTH PROMOTION THROUGH THE LIFE SPAN 3-0-3
Prerequisite: Admission to the Nursing Program or Permission of Instructor
The professional nurse’s role in population-focused health care for individuals, families, and communities through the lifespan.

NURS 4313 PHARMACOLOGICAL CONCEPTS FOR NURSING II 3-0-3
Prerequisite: NURS 3312
Principles of pharmacology with emphasis on pharmacologic interventions across the lifespan.

NURS 4345 ADULT HEALTH II 4-9-7
Prerequisite: NURS 3345, NURS 3355, NURS 3312
Prerequisite or corequisite: NURS 4313, NURS 4355
Therapeutic nursing interventions for adult clients with complex alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

NURS 4346 ADULT HEALTH II 4-9-7
Prerequisite: NURS 3346
Prerequisite or corequisite: NURS 3536, 4356, 4445
Therapeutic nursing interventions for adult clients with complex alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

NURS 4355 WOMEN AND CHILDREN'S HEALTH 4-6-6
Prerequisite: NURS 3345, NURS 3355, NURS 3312
Prerequisite or corequisite: NURS 4313
Therapeutic nursing interventions to promote health and prevent illness of women and children in a variety of clinical settings.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 4356</td>
<td>WOMEN AND CHILDREN’S HEALTH</td>
<td>4-6-6</td>
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<td>Prerequisite: NURS 3346. Prerequisite or corequisite: NURS 3536, 4346, 4445</td>
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<td>Therapeutic nursing interventions to promote health and prevent illness of women and children in a variety of clinical settings.</td>
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<td>NURS 4440</td>
<td>POPULATION FOCUSED NURSING</td>
<td>3-6-5</td>
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<td>Prerequisite: NURS 4355; NURS 4313 and NURS 4445</td>
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<td>Prerequisite or corequisite: 4345</td>
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<td>The professional nurse’s role in population focused health care.</td>
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<tr>
<td>NURS 4441</td>
<td>POPULATION FOCUSED NURSING</td>
<td>3-6-5</td>
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<td>Prerequisite: NURS 4356</td>
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<td>Prerequisite or corequisite: NURS 4451, 4465</td>
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<td>The professional nurse’s role in population focused health care.</td>
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<td>NURS 4445</td>
<td>RESEARCH FOR EVIDENCE-BASED PRACTICE</td>
<td>3-0-3</td>
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<td>Prerequisite: MATH 2200 and admission to the nursing major</td>
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<td>Critique and utilization of research as a basis for evidence based practice.</td>
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<td>NURS 4450</td>
<td>PROFESSIONAL NURSING LEADERSHIP AND MANAGEMENT</td>
<td>4-9-7</td>
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<tr>
<td></td>
<td>Prerequisite: NURS 4313, NURS 4445</td>
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<td>Leadership and management roles of the professional nurse in selected clinical settings.</td>
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<tr>
<td>NURS 4451</td>
<td>PROFESSIONAL NURSING LEADERSHIP AND MANAGEMENT</td>
<td>4-9-7</td>
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<td>Prerequisite: NURS 4346</td>
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<td>Prerequisite or corequisite: NURS 4441, 4465</td>
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<td>Leadership and management roles of the professional nurse in selected clinical settings.</td>
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<td>NURS 4460</td>
<td>PROFESSIONAL NURSING SEMINAR</td>
<td>3-0-3</td>
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<td>Prerequisite or corequisite: NURS 4440 and NURS 4450</td>
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<td>Exploration of nursing trends and issues.</td>
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<td>NURS 4465</td>
<td>INTEGRATION OF NURSING KNOWLEDGE</td>
<td>0-6-2</td>
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<td>Prerequisite: NURS 4346</td>
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<td>Prerequisite or corequisite: NURS 4441, 4451</td>
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<td>Synthesis and evaluation of knowledge and skills for critical inquiry for professional nursing practice.</td>
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<tr>
<td>NURS 4466</td>
<td>CRITICAL SCIENTIFIC INQUIRY</td>
<td>0-3-1</td>
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<td>Prerequisite or corequisite: NURS 4450 and NURS 4440</td>
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<td></td>
<td>Synthesis of knowledge and skills for critical inquiry in professional nursing practice.</td>
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<tr>
<td>NURS 4490</td>
<td>TOPICS IN PROFESSIONAL NURSING</td>
<td>V-V-(1-4)</td>
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<td>Prerequisite: Admission to the BSN program.</td>
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<td>The student, in consultation with the professor, selects a topic and submits a proposal for supervised independent study.</td>
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<td>NURS 4491H</td>
<td>INTRODUCTION TO THE HONOR’S PROJECT</td>
<td>1-0-1</td>
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<td>Prerequisite: NURS 3304, NURS 3309, NURS 3320, NURS 3344 and admission to the Honor’s Program</td>
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<td>Independent exploration of nursing problems and practice issues under the guidance of a faculty mentor.</td>
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<tr>
<td>NURS 4492H</td>
<td>HONOR’S PROJECT IMPLEMENTATION</td>
<td>1-0-1</td>
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<td>Prerequisite: NURS 4491H</td>
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<td>Implementation and evaluation of the honors project with a selected population under the guidance of a faculty mentor.</td>
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<tr>
<td>NURS 4493H</td>
<td>– HONOR’S PROJECT PRESENTATION</td>
<td>1-0-1</td>
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<tr>
<td></td>
<td>Prerequisite: NURS 4492H</td>
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<tr>
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<td>Presentation of the honor’s project to a selected group.</td>
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</table>
### OCEA – Oceanography

**OCEA 3100 INTRODUCTION TO OCEANOGRAPHY**  
3-0-3  
Prerequisite: 6 semester hours of science  
Basic principles of oceanography. The distribution of water over the earth, nature and relief of the ocean floors, tides and currents, chemical properties of sea water and constituents, and application of oceanographic research.

### PEBC – Physical Education Activities

**PEBC 1000 BEGINNING WEIGHT TRAINING**  
0-2-1  
Mechanical principles and techniques necessary for the understanding of weight training programs.

**PEBC 1001 BASIC BOOT CAMP**  
0-1-1  
Based on military-style of training, offers a variety of beginning exercises to increase cardiovascular efficiency, increase strength, and flexibility. Class may be indoors or outdoors.

**PEBC 1005 INTERMEDIATE BOOT CAMP**  
Prerequisite: PEBC 1001 or Permission of Instructor  
Based on military-style of training, offers a variety of intermediate exercises to increase cardiovascular efficiency, increase strength, and flexibility. Class may be indoors or outdoors.

**PEBC 1010 LIFETIME FITNESS TRAINING**  
1-V-1  
Basic fitness and wellness concepts and applications to everyday life. Participation in an individualized fitness program.

**PEBC 1011 ADVANCED BOOT CAMP**  
Prerequisite: PEBC 1005 or Permission of Instructor  
Based on military-style of training, offers a variety of advanced exercises to increase cardiovascular efficiency, increase strength, and flexibility. Class may be indoors or outdoors.

**PEBC 1020 AEROBIC DANCE**  
0-1-1  
Combination of exercise and dance steps to improve cardiovascular endurance system, muscular endurance, strength, and flexibility.

**PEBC 1050 INTERMEDIATE WEIGHT TRAINING**  
Prerequisite: PEBC 1000 Beginning Weight Training or Instructor Approval  
Principles of muscular strength and muscular endurance fitness associated with resistance training. This course will provide students with the skills necessary to develop an effective intermediate weight training program.

**PEBC 1070 TEAM SPORTS**  
1-V-1  
Instruction in two of the following sports: basketball, volleyball, soccer, and/or softball.

**PEBC 1080 BOWLING**  
0-V-1  
Basic skills in bowling. Minimum of three games required per class period at student’s expense. Must provide own transportation.

**PEBC 1090 ARCHERY**  
0-1-1  
Basic skills in archery for recreation. Students must provide own arm and finger guards.

**PEBC 1100 TUMBLING AND STUNTS**  
0-2-1  
Fundamentals and practice in beginning tumbling and gymnastic apparatus.

**PEBC 1200 YOGA FOR BEGINNERS**  
0-1-1  
Instruction and practice in yoga positions to improve strength, flexibility, body alignment, and breathing techniques.

**PEBC 1201 INTERMEDIATE YOGA**  
Prerequisite: PEBC 1200 or permission of Instructor  
Advanced instruction in yoga positions to improve strength, flexibility, body alignment, and breathing techniques.

**PEBC 1250 PILATES**  
0-1-1  
Pilates mat exercises to strengthen the core, improve posture, and increase flexibility.
PEBC 1300 WALK, JOG, RUN 0-1-1
The principles of cardio respiratory fitness associated with walking, jogging, and running will be taught in this course along with the principles of flexibility fitness associated with static and dynamic stretching for the prevention of walking and jogging injuries. This course will provide students with basic cardio respiratory skills to develop an effective beginning walking, jogging or running program. This course is open to all levels of fitness.

PEBC 1301 BASIC SWIMMING SKILLS 0-V-1
Fundamental skills and strokes for the student with little to no swim experience. Principles of water safety are included.

PEBC 1302 INTERMEDIATE SWIMMING 0-V-1
Prerequisite: PEBC 1301 or Permission of Instructor
Basic Swimming competence is required. Four basic strokes (free, back, breast, fly) related aquatic skills, endurance, and principles of safety in, on and around the water are taught.

PEBC 1310 WATER SAFETY INSTRUCTOR 2-V-2
Methods of teaching infant and pre-school aquatics, the seven levels of “learn to swim program,” as well as community water safety, ICT and safety training for swim coaches. Must be at least 17 years old and have Level VI swim skills.

PEBC 1350 BEGINNING SCUBA 0-V-1
Fundamentals of scuba diving including dive equipment and techniques. Optional: dive trip required to secure PADI certification. Additional fees required; contact the department secretary for fee estimate. Must provide own transportation for each class meeting.

PEBC 1380 WATER AEROBICS AND EXERCISE 0-1-1
Principles of cardiorespiratory fitness, flexibility, and resistance training associated with the dynamics of aquatics.

PEBC 1390 LIFEGUARD TRAINING 1-V-2
Recognizing and preventing injuries, rescue skills, CPR/AED/first aid, and pool health, sanitation, and management.

PEBC 1400 SAFETY, FIRST AID AND CPR 1-V-1
The American Red Cross course in “First Aid/CPR/AED for the Workplace, Schools, and the Community.” Knowledge and skills necessary to recognize and provide basic care for injuries and sudden illnesses until advanced medical personnel arrive. Administrative fee paid to American Red Cross for proof of certification.

PEBC 1401 ELEMENTARY TENNIS 0-1-1
Basic rules, skills, strategies, and practice for singles and doubles. Student must provide own racket and one can of new tennis balls.

PEBC 1402 INTERMEDIATE TENNIS 0-1-1
Advanced instruction in skills and strategy in tennis. Student must provide own racket and one can of new tennis balls.

PEBC 1450 BADMINTON 0-1-1
Basic rules, skills, strategies, and practice for singles and doubles.

PEBC 1501 BEGINNING MODERN DANCE 0-1-1
Modern dance positions and technique, with basic improvisation.

PEBC 1502 CONTEMPORARY DANCE FROM AROUND THE WORLD 0-1-1
Social dances from different countries with emphasis on dynamics, composition, and choreography.

PEBC 1530 INTERMEDIATE MODERN DANCE 0-1-1
Advanced instruction and practice in many forms of modern dance.

PEBC 1551 BASIC BALLET 0-1-1
Basic ballet techniques. Emphasis on body position and practice in using steps in combinations.
PEBC 1552 INTERMEDIATE BALLET 0-1-1
Advanced instruction in ballet techniques; refinement of ballet skills.

PEBC 1580 JAZZ DANCING 0-1-1
Fundamental techniques and choreography in modern, lyrical, and hip hop forms of jazz.

PEBC 1585 TAP DANCE 0-1-1
Designed to teach the most frequently used step combinations in choreographed tap dance routines. Performance of one or more routines required. Students required to provide own tap shoes.

PEBC 1601 BEGINNING GOLF 0-V-1
Basic instruction in rules, skills, and strategies for the beginning golfer. An additional fee is required. Must provide own transportation for each class meeting.

PEBC 1602 INTERMEDIATE GOLF 0-V-1
Prerequisite: PEBC 1601 or permission of instructor
Review and refinement of beginning skills, strategies, and etiquette of golf. An additional fee is required. Must provide own transportation for each class meeting.

PEBC 1700 SPECIAL TOPICS: PHYSICAL ACTIVITY 0-1-1
Physical activity announced when offered. May be repeated for additional credit as topics change.

PEBC 2000 CONCEPTS OF FITNESS 2-V-2
Theoretical knowledge, fundamental concepts, and practical experience in the principles, assessment, development, and lifelong maintenance of fitness. Lab experiences required.

PEBC 2001 CONCEPTS OF PERSONAL HEALTH AND FITNESS 3-V-3
Theoretical knowledge, fundamental concepts, and practical experience in the principles, assessment, development, and lifelong maintenance of personal health and fitness. Focus on effecting positive changes in personal lifestyles. Topics include fitness components, nutrition, weight control, cardiovascular disease, stress, exercise-related and unintentional injuries, cancer, sexually transmitted infections, and addiction and substance use/abuse. Lab experiences required.

PEEC – Physical Education Elective

PEEC 3010 INTRAMURAL AND RECREATIONAL PROGRAMS 3-V-3
Preparation in organization and administration of intramural and recreational activities for grade schools, colleges, and community programs. A field experience is required.

PEEC 3100 OUTDOOR LIFETIME ACTIVITIES 2-V-2
Instruction in techniques, safety practices, rules, strategies, and equipment necessary for instruction in outdoor activities. Field trips to allow student participation in select activities. Student must provide his/her own transportation for each field trip. Additional fees may be required.

PEEC 3120 COACHING FOOTBALL 2-V-2
Instruction and practice in fundamental skills and team play, emphasizing methods and drills. Minimum of two games must be scouted at student’s expense.

PEEC 3130 COACHING BASKETBALL 2-V-2
Instruction and practice in fundamental skills and team play, emphasizing methods and drills. Minimum of two games must be scouted at student’s expense.

PEEC 3140 COACHING BASEBALL 2-V-2
Instruction and practice in fundamental skills and team play, emphasizing methods and drills. Minimum of two games must be scouted at student’s expense.

PEEC 3150 COACHING VOLLEYBALL 2-V-2
Rules and fundamental skills of volleyball, with individual development and application of coaching methods.
PEEC 3170 COACHING SOCCER 2-V-2
Instruction and practice in the fundamental skills and team play, emphasizing methods and drills. Minimum of two games must be scouted at the student’s expense.

PEEC 3180 OFFICIATING TEAM SPORTS 2-V-2
Rules, mechanics, and ethics involved in officiating a variety of team sports. Students must provide own equipment appropriate to the sports and own transportation for off-campus assignment.

PEEC 3200 HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER 2-V-2
Prerequisite: Admission into candidacy in the College of Education
Theory and current practice in the teaching of health and physical education at the elementary school level. A field experience is required.

PEEC 4130 RESEARCH METHODS IN PHYSICAL EDUCATION 2-0-2
Prerequisite: Admission into candidacy in the College of Education
Research methods in health and physical education.

PEHM – Physical Education - Health Major

PEHM 2100 ATHLETIC HEALTH CARE: PREVENTION, RECOGNITION, AND CARE OF SPORTS INJURIES 3-V-3
Survey of the athletic health care system, legal liability associated with sports, techniques for preventing, recognizing, minimizing, and managing sports-related injuries and conditions. Instruction and certification in American Red Cross First Aid, CPR and AED. A certification fee is required. Lab experiences are required.

PEHM 2500 FOUNDATIONS OF PHYSICAL EDUCATION 3-0-3
Survey of historical foundations, interrelationships of health and physical education and the development of current progressive programs including the uses and availability of technology.

PEHM 3000 CURRENT HEALTH EDUCATION ISSUES 3-0-3
Discussion of wellness, nutrition, exercise, disease, lifestyle and consumer issues, and aging.

PEHM 3090 BASIC GAMES, DANCE, AND RHYTHMIC ACTIVITIES 2-V-2
Instruction in recreational, dance, and rhythmic activities for P-12 diverse populations. A field experience is required.

PEHM 3200 MOTOR DEVELOPMENT AND LEARNING 3-0-3
Theories and principles of motor development, learning, and control as they relate to the acquisition of fundamental locomotion and manipulative skills.

PEHM 3283 KINESIOLOGY 3-0-3
An interdisciplinary approach to the science of human movement. Topics include functional anatomy and applied principles of biomechanical analysis of movement-based sports activities.

PEHM 3300 TECHNIQUES IN TEAM SPORTS INSTRUCTION 3-0-3
Analysis, demonstration, and application of basic skills and techniques necessary for instruction in soccer, softball, field hockey, football, volleyball, basketball, and team handball.

PEHM 3350 CLASS MANAGEMENT PRACTICES IN HEALTH AND PHYSICAL EDUCATION 2-0-2
Prerequisite: Admission to candidacy in the College of Education
Theory and best practices of class management as related to the characteristics of learners and effective pedagogy in health and physical education programs.

PEHM 3500 EXERCISE PHYSIOLOGY 3-V-3
Response of anatomy of the major body organ systems to exercise, with laboratory procedures in exercise physiology.
PEHM 3700 TECHNIQUES IN INDIVIDUAL AND DUAL SPORTS 3-0-3
Analysis, demonstration, and application of basic skills and techniques necessary for instruction in individual and dual sports, including tennis, badminton, pickleball, golf, bowling, and gymnastics/tumbling.

PEHM 4000 MEASUREMENT AND EVALUATION IN HEALTH AND PHYSICAL EDUCATION 2-V-2
Measurement, evaluation, assessment, and statistics in health and physical education. A field experiences is required.

PEHM 4090 HEALTH EDUCATION TOPICS 3-0-3
In-depth information on substance use (drugs, chemical misuse, abuse, prevention, and treatment), topics relating to healthy relationships, sexual behavior (abstinence, comprehensive education, sexually transmitted diseases, pregnancy, and parenthood), and techniques utilized for conflict resolution.

PEHM 4100 ADAPTIVE PHYSICAL EDUCATION 2-V-2
Prerequisite: Admission to candidacy in the College of Education
Instruction in methods for adapting physical education instruction to meet the needs of students with disabilities. A field experience is required.

PEHM 4333 PRINCIPLES OF COACHING 2-V-2
Examination of the various aspects of coaching athletes in contemporary society by researching current findings and other related factors affecting performance. Specific attention given to the principles, problems, and understanding of management of athletic contests. A field experience is required.

PEHM 4701 ELEMENTARY PHYSICAL EDUCATION CURRICULUM AND METHODS 3-V-4
Prerequisite: Admission to candidacy in the College of Education, PEHM 3200.
Theory and current practice in the teaching of elementary physical education for the developing child, including appropriate curriculum design, methods, and assessment. A field experience is required.

PEHM 4702 MIDDLE AND SECONDARY PHYSICAL EDUCATION CURRICULUM AND METHODS 3-V-4
Prerequisite: Admission to candidacy in the College of Education, PEHM 3300
Corequisite: PEHM 3700
Curriculum development and methods of teaching physical education in the middle and secondary schools. A field experience is required.

PEHM 4703 HEALTH EDUCATION CURRICULUM AND METHODS 3-V-4
Prerequisite: Admission to candidacy in the College of Education, PEHM 3000, and PEHM 4090
Methods of teaching health in P-12 schools addressing curriculum requirements. A field experience is required.

PEHM 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission to candidacy in the College of Education and completion of all coursework.
Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting.

PEHM 4800 INTERNSHIP II – TEACHER OF RECORD 0-V-12
Prerequisite: permission of department head
Supervised field-based teaching experience for candidates who hold a health/physical education teaching position in a school setting.

PEHM 4900 INTERNSHIP RECREATION AND COACHING
Prerequisite: Completion of all required coursework or permission of the instructor 0-V-12
Supervised field experience providing the opportunity to use knowledge and skills in youth and adult non-profit and/or corporate health and physical education programs.

PHIL – Philosophy
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 2010</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3-0-3</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic themes, problems, vocabulary, and</td>
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<tr>
<td></td>
<td>representative figures of philosophy. Includes</td>
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<td>an essay or projects involving documentation.</td>
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<tr>
<td>PHIL 2030</td>
<td>INTRODUCTION TO ETHICS AND MORAL ISSUES</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<tr>
<td></td>
<td>Ethical traditions of western culture and</td>
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<td></td>
<td>their application of historic perspectives to</td>
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<tr>
<td></td>
<td>contemporary moral issues in medicine, business,</td>
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<td>and environmental relations.</td>
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<tr>
<td>PHIL 3110</td>
<td>ANCIENT PHILOSOPHY</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<tr>
<td></td>
<td>Ancient philosophy with special emphasis on the</td>
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<tr>
<td></td>
<td>Pre-Socratics, Plato, Aristotle, the Stoics,</td>
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<td></td>
<td>Epicureans, Skeptics, and Neo-Platonism.</td>
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<tr>
<td>PHIL 3120</td>
<td>MEDIEVAL PHILOSOPHY AND THE RISE OF HUMANISM</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<tr>
<td></td>
<td>Medieval philosophy and the rise of humanistic</td>
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<td>studies in the Renaissance, with emphasis on</td>
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<td></td>
<td>Boethius, Augustine, Acquinas, Anselm, Oceam,</td>
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<td></td>
<td>Erasmus, Bacon, Machiavelli, and Montaigne.</td>
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<td>PHIL 3130</td>
<td>CONTINENTAL RATIONALISM AND BRITISH EMPIRICISM</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<tr>
<td></td>
<td>The modern rationalist tradition and its rival</td>
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<td></td>
<td>empirical tradition, with emphasis on Descartes,</td>
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<td></td>
<td>Spinoza, and Leibniz; and on Hobbes, Locke,</td>
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<td></td>
<td>Berkeley, and Hume.</td>
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<tr>
<td>PHIL 3140</td>
<td>KANT AND THE 19TH CENTURY</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<td></td>
<td>Nineteenth century philosophy with emphasis on</td>
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<td></td>
<td>Kant, Hegel, Schopenhauer, Marx, James,</td>
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<td>Kierkegarrd, and Nietzsche.</td>
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<tr>
<td>PHIL 3150</td>
<td>TWENTIETH CENTURY PHILOSOPHY</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<td></td>
<td>Twentieth century schools and trends in philosophy</td>
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<td></td>
<td>as exhibited by such figures as Heidegger,</td>
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<td></td>
<td>Whitehead, Moore, Wittgenstein, Sartre, and</td>
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<td></td>
<td>Ayer.</td>
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<tr>
<td>PHIL 3200</td>
<td>TECHNOLOGY, SOCIETY, AND HUMAN VALUES</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<td></td>
<td>A philosophical exploration of the formative</td>
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<td>impact of technology on the character of modern</td>
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<td>culture and human values. The study of competing</td>
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<td>descriptions and definitions of technology as</td>
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<td>well as questions regarding effective human</td>
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<td>control of technology, the moral neutrality of</td>
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<td>technology, and the effects of technology on</td>
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<td></td>
<td>conceptual paradigms, language, politics,</td>
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<td>economics, science, education, art, and religion.</td>
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<tr>
<td>PHIL 3310</td>
<td>PHILOSOPHY OF FILM</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<td></td>
<td>A study of philosophical issues related to film</td>
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<td>and the cinematic experience.</td>
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<tr>
<td>PHIL 3320</td>
<td>POSTMODERNISM</td>
<td>3-0-3</td>
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<tr>
<td>Prerequisite:</td>
<td>ENGL 1101</td>
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<td>A study of the philosophical response to the</td>
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<td>modernist philosophical tradition that led to</td>
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<td>significant changes in Western discourse on</td>
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<td>politics, aesthetics and science.</td>
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</tbody>
</table>
PHIL 3330 PHILOSOPHY OF RELIGION 3-0-3
Prerequisite: ENGL 1101 and at least one philosophy course
Major problems arising in the encounter between philosophy and religious belief (reason and faith). Emphasis on the validity and nature of religious belief, the problem of evil, as well as the meaning and status of religious language.

PHIL 3340 SYMBOLIC LOGIC 3-0-3
Prerequisite: ENGL 1101 and at least one philosophy course
Formal logic and the techniques of symbolism used for analyzing the validity of formal deductive systems. Emphasis on the analysis of truth functions, qualification theory, and the theory of relations.

PHIL 4000 SPECIAL TOPICS 3-0-3
Prerequisite: ENGL 1101
Offered on demand. Focuses either on a topic such as existentialism, aesthetics, philosophy of science, philosophy of language, philosophy and literature, or on one great ancient, medieval, or modern philosopher such as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, Kant, Hegel, Nietzsche, Whitehead, Sartre or Wittgenstein. May be repeated for additional credit when topics change.

PHIL 4900 INDEPENDENT STUDY 1-0-1
Prerequisite: ENGL 1101 and an upper division PHIL course
Offered on demand. The student, with the advice and permission of the supervising professor, selects the topic and submits a prospectus for department approval before the semester in which the course is to be taken. Transient students may take this course only with permission of the department head.

PHSC – Physical Science
PHSC 1211 PHYSICAL ENVIRONMENT 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
Fundamental concepts, laws, and theories of physics. For non-science majors interested in a quantitative survey of the physics underlying the universe, including motion, energy, electricity, and astronomy.

PHSC 1211L PHYSICAL ENVIRONMENT LAB 0-2-1
Corequisite: PHSC 1211
Laboratory investigations of the fundamental concepts, laws, and theories of physics.

PHYS – Physics
PHYS 1000 INTRODUCTION TO PHYSICS 1-0-1
Pre- or corequisite: MATH 1161
Introduction to and development of problem solving skills, exposure to current research topics in physics, and improvement of writing and presentation skills.

PHYS 1010 THE PHYSICS OF SPORTS 3-0-3
Prerequisite: MATH 1111 (minimum grade of C)
Fundamental concepts, laws, and theories of physics as they relate to a variety of sports, including volleyball, soccer, tennis, golf, and more. For non-science majors interested in the concepts underlying the mechanics of the skills and movements involved in a variety of physical activities. Includes in-class demonstrations and activities.

PHYS 1111K INTRODUCTORY PHYSICS I 3-3-4
Prerequisite: MATH 1113 with a grade of C or better
Introductory mechanics, thermodynamics, and waves using elementary algebra and trigonometry. Includes laboratory investigation of these concepts.

PHYS 1112K INTRODUCTORY PHYSICS II 3-3-4
Prerequisite: PHYS 1111K (minimum grade of C)
Introductory electromagnetism, optics, and modern physics using elementary algebra and trigonometry. Includes laboratory investigation of these concepts.
### PHYS 2030 Introduction to Computer Engineering 3-0-3
Prerequisite: CSCI 1060 or CSCI 1301 or ENGR 1371 or CSCI 1371
Computer systems and digital design principles. Architectural concepts, software, Boolean algebra, number systems, combinational datapath elements, sequential logic, storage elements. Design of DRAM control and I/O bus. Cross-listed with ENGR 2030.

### PHYS 2031 Digital Design Laboratory 1-3-2
Prerequisite: ENGR 2030 or PHYS 2030 (minimum grade of C)
Design and implementation of digital systems, including a team design project. CAD tools, project design methodologies, logic synthesis, and assembly language programming. Cross-listed with ENGR 2031.

### PHYS 2035 Programming for Hardware/Software Systems 3-3-4
Prerequisite: ENGR 2030 or PHYS 2030 (minimum grade of C)
Programming techniques for hardware and software systems including creation of complex execution and storage mechanisms based on instruction set architecture and software design including programming languages and operating systems. Students will apply and develop these concepts through programming design projects.

### PHYS 2211K Principles of Physics I 3-3-4
Prerequisite: MATH 1161 (minimum grade of C)
Introductory mechanics, thermodynamics, and waves using elementary differential calculus. Includes laboratory investigation of these concepts.

### PHYS 2212K Principles of Physics II 3-3-4
Prerequisite: PHYS 2211K (minimum grade of C) and MATH 2072 (minimum grade of C)
Introductory electromagnetism, optics, and modern physics using elementary differential and integral calculus. Includes laboratory investigation of these concepts.

### PHYS 2900 Introduction to Research in Physics 0-(3-9)-(1-3)
Prerequisite or corequisite: permission of the department head and PHYS 2212K
Faculty directed physics research project. Written report required.

### PHYS 3100 Electrical Circuit Analysis 3-0-3
Prerequisite: PHYS 2212K (minimum grade of C)
Basic laws of electrical circuits: RCL circuits, nodal and mesh analysis. Thevenin’s and Norton’s theorems; phasors, magnetically coupled circuits, and two-port parameters.

### PHYS 3110 Digital Electronics and Microcontrollers 2-2-3
Prerequisite: PHYS 2212K (minimum grade of C) or both MATH 1161 and PHYS 1112K (minimum grade of C)
Digital circuits, analysis of logic signals, microcontroller programming and interfacing with applications to physical systems.

### PHYS 3142 Computational Physics 1-1-3
Prerequisite: PHYS 2212K (minimum grade of C), MATH 2083 (minimum grade of C), and MATH 3411 (minimum grade of C).
A survey of computational methods used in the natural sciences: approximation of functions, numerical calculus, numerical differential equations, Monte Carlo techniques, parallel computing, and distributed computing.

### PHYS 3170 Sensor Development and Data Analysis 2-2-3
Prerequisite: PHYS 2212K (minimum grade of C) or both MATH 1161 and PHYS 1112K (minimum grade of C)
Design and construction of a variety of sensors for physical quantities. Implementation, data collection, and analysis of sensor output.

### PHYS 3200 Mathematical Methods for Physicists 3-0-3
Prerequisite: PHYS 2212K (minimum grade of C), MATH 2083 (minimum grade of C), and MATH 3411 (minimum grade of C).
PHYS 3220 MECHANICS OF DEFORMABLE BODIES  
Prerequisite: MATH 3411 (minimum grade of C) and PHYS 2212K (minimum grade of C)  
Internal effects and dimension changes of solids resulting from external applied loads; shear and bending  
moment diagrams, analysis of stress and strain; beam deflection; column stability.

PHYS 3230 FLUID MECHANICS  
Prerequisite: MATH 3411 (minimum grade of C) and either PHYS 3300 or PHYS 3400  
Fluid statics; analysis of fluid motion using the continuity, momentum, and energy conservation relationships;  
introduction to viscous flows.

PHYS 3300 THERMODYNAMICS  
Prerequisite: PHYS 2212K (minimum grade of C) and MATH 3411 (minimum grade of C)  
Thermodynamic properties, energy and mass conservation, entropy and the second law. Second-law analysis  
of thermodynamic systems, gas cycles, and vapor cycles.

PHYS 3370 HUMAN COMPUTER INTERACTION  
Prerequisite: CSCI 1301 or ITEC 1310 or ENGR 1371  
Paradigms in user interface design and related human factors. Topics include: user-system compatibility  
analysis, techniques for user interface design, methods for interface analysis, multimodal interaction and  
interaction analysis.

PHYS 3312 ELECTROMAGNETISM  
Prerequisite: PHYS 2212K (minimum grade of C) and MATH 2083 (minimum grade of C)  
Electrostatics, magnetostatics, electromagnetism, electromagnetic waves, and applications, using both the  
integral form and differential form of Maxwell’s equations.

PHYS 3400 CHEMICAL THERMODYNAMICS  
Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C) and MATH 2072  
(minimum grade of C) and either PHYS 1112K (minimum grade of C) or PHYS 2212K (minimum grade of C)  
Fundamentals of physical chemistry: gas laws, heat and work, and laws of thermodynamics; material and  
reaction equilibrium and standard thermodynamic functions; single and multi-component phase equilibria;  
and reaction kinetics.

PHYS 3403 BIOPHYSICS  
Prerequisite: PHYS 3801K (minimum grade of C)  
A survey of physics applications to biology, including the thermodynamics of life, forces affecting conformation  
in biological molecules, physics of membranes, and spectroscopy. Cross-listed with BCHM 3403.

PHYS 3500 DIFFRACTION AND CRYSTALLOGRAPHY  
Prerequisite: PHYS 3801K (minimum grade of C)  
Diffraction and crystal structure with identification from single crystal and powder patterns. Lattice parameters  
and crystal orientation.

PHYS 3601 INTRODUCTION TO RADIATION PHYSICS I  
Prerequisite: PHYS 3801K (minimum grade of C)  
Fundamentals about atomic physics and radiation: atomic structure, the nucleus, nuclear radiation, radioactive  
decays and interactions of heavy charged particles with matter.

PHYS 3602 INTRODUCTION TO RADIATION PHYSICS II  
Prerequisite: PHYS 3601 (minimum grade of C)  
Fundamentals about atomic physics and radiation: interactions of electrons with matter, interactions of photons  
with matter, neutrons, fission, and methods of radiation detection.

PHYS 3650 RADIATION EXPOSURE IN THE WORKPLACE AND IN THE ENVIRONMENT  
Prerequisite: PHYS 3801K (minimum grade of C)  
A survey of how radiation is used in a variety of contexts, how it is detected and measured (i.e. dosimetry and  
radiation detectors), and the effect on people and the environment.
PHYS 3660 MEDICAL IMAGING  
Prerequisite: PHYS 3801K (minimum grade of C)  
A survey of how electromagnetic and nuclear radiation is used in a variety of medical imaging techniques (such as CT, MRI, and PET).

PHYS 3700K OPTICS  
Prerequisite: PHYS 2212K (minimum grade of C) or both MATH 1161 (minimum grade of C) and PHYS 1112K (minimum grade of C)  
Geometrical and physical optics. Includes laboratory investigation.

PHYS 3801K MODERN PHYSICS  
Prerequisite: PHYS 2212K (minimum grade of C) or both MATH 1161 (minimum grade of C) and PHYS 1112K (minimum grade of C)  
Modern physics, relativity, atomic physics, and nuclear physics. Includes laboratory investigation.

PHYS 3802 INTRODUCTION TO QUANTUM MECHANICS  
Prerequisite: MATH 2072 (minimum grade of C) and PHYS 3801K (minimum grade of C)  
Introduction to quantum mechanical principles with applications in atomic and molecular structure.

PHYS 4120 SCIENTIFIC MEASUREMENT WITH DIGITAL INTERFACING  
Prerequisite: CSCI 1301 (minimum grade of C) and either PHYS 3120 (minimum grade of C) or PHYS 3100 (minimum grade of C) or ENGR 3100 (minimum grade of C)  
Principles and techniques used in measuring physical quantities, including transducers, data acquisition interfaces, and data analysis. Data acquisition and process control capabilities of the computer as a general purpose lab instrument. Hands-on lab experience through applications in experimental physics. Includes a variety of oral and written assignments. Physics faculty involved in assessments.

PHYS 4170 ADVANCED MECHANICS  
Prerequisite: MATH 2083 (minimum grade of C) and PHYS 2212K (minimum grade of C). (MATH 3411 also recommended)  
Mechanics of particles and systems of particles using Newtonian and Euler-Lagrangian/Hamiltonian principles.

PHYS 4200 ANALYSIS AND SYNTHESIS OF MECHATRONIC SYSTEMS  
Prerequisite: PHYS 3170 (minimum grade of C) and either ENGR 1371 or CSCI 1301 (minimum grade of C)  
Students will design and construct complete systems involving sensors, algorithms, and physical action on the environment. Hands-on lab experience through applications in experimental physics. Includes a variety of oral and written assignments. Physics faculty involved in assessments.

PHYS 4800 PEDAGOGY AND SUPPLEMENTAL INSTRUCTION IN PHYSICS  
Prerequisite: Open only to applied physics majors, PHYS 2212K (minimum grade of C) and permission of Department Head  
Provides students interested in becoming high school physics educators with the knowledge, skills, and strategies fundamental to the best practices of inclusive physics instruction in high school settings. Course goals will be accomplished through the reading of pedagogical works, mentoring with an instructor, direct supplemental instruction, tutoring, lesson planning and delivery in a lower-level physics course. Completion of a physics education project is also required.

PHYS 4900 INDEPENDENT STUDY IN PHYSICS  
Prerequisite: permission of instructor or department  
Open to juniors or above. Research or study in physics under the supervision of a member of the physics faculty. Research activities will require the presentation of a written report. Studies of special topics will require the completion of written exams. Both the credit and the proposed work must be approved in writing by the faculty member who will supervise the work and by the department head. Open to transient students only with the permission of the department head. Offered by special arrangement.

PHYS 4950 SPECIAL TOPICS IN PHYSICS  
Prerequisite: announced with the topic; permission of instructor or department  
Advanced study in an area of physics not covered elsewhere. Topics are chosen from all areas of physics, and will be announced when the course is offered. Offered by special arrangement.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHYS 4960</td>
<td>PHYSICS INTERNSHIP</td>
<td>V-V-(1-10)</td>
<td>Prerequisite: Permission of instructor or department head. Project in industry or government to be determined, supervised, and evaluated by the sponsor of the activity and physics intern program director. Application and arrangements must be made through the department by mid-semester preceding the semester of internship. Open to transient students only with the permission of the department head. Offered by special arrangement.</td>
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<tr>
<td>PHYS 4991-2-3-4</td>
<td>ADVANCED RESEARCH IN PHYSICS</td>
<td>0-(3-9)-(1-3)</td>
<td>Prerequisite: permission of department head and any 3000-level PHYS course Faculty directed physics research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.</td>
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<tr>
<td>PLAE 2000</td>
<td>PRIOR LEARNING DOCUMENTATION – EDUCATION</td>
<td>2–0–2</td>
<td>Prerequisite: Permission of the instructor. Techniques for the development of documentation for prior learning experiences based on standards and criteria established by academic and subject-matter professionals. Students prepare and submit documentation that provides a clear description of competencies obtained. Graded “Satisfactory” or “Unsatisfactory.”</td>
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<td>PLAH 2000</td>
<td>PRIOR LEARNING DOCUMENTATION – HEALTH PROFESSIONS</td>
<td>2–0–2</td>
<td>Prerequisite: Permission of the instructor. Techniques for the development of documentation for prior learning experiences based on standards and criteria established by academic and subject-matter professionals. Students prepare and submit documentation that provides a clear description of competencies obtained. Graded “Satisfactory” or “Unsatisfactory.”</td>
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<tr>
<td>PLAL 2000</td>
<td>PRIOR LEARNING DOCUMENTATION – LIBERAL ARTS</td>
<td>2–0–2</td>
<td>Prerequisite: Permission of the instructor. Techniques for the development of documentation for prior learning experiences based on standards and criteria established by academic and subject-matter professionals. Students prepare and submit documentation that provides a clear description of competencies obtained. Graded “Satisfactory” or “Unsatisfactory.”</td>
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<tr>
<td>PLAS 2000</td>
<td>PRIOR LEARNING DOCUMENTATION – SCIENCE &amp; TECHNOLOGY</td>
<td>2–0–2</td>
<td>Prerequisite: Permission of the instructor. Techniques for the development of documentation for prior learning experiences based on standards and criteria established by academic and subject-matter professionals. Students prepare and submit documentation that provides a clear description of competencies obtained. Graded “Satisfactory” or “Unsatisfactory.”</td>
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<tr>
<td>POLS 1100</td>
<td>POLITICAL HISTORY OF AMERICA AND GEORGIA</td>
<td>3-0-3</td>
<td>Prerequisite: eligibility for ENGL 1101 Origins and development of constitutional theory and its political, intellectual, and cultural impact on American society from the seventeenth century to the present. Emphasis is placed on the political history of Georgia and the principles of its constitution. Crosslisted as HIST 1100.</td>
</tr>
<tr>
<td>POLS 1150</td>
<td>WORLD POLITICS</td>
<td>3-0-3</td>
<td>Prerequisite: eligibility for ENGL 1101 Comparative political systems with emphasis on the variety of world politics. Differences in government structure, policy, and political traditions. Democratization, modernization, nationalism, the future of the nation state, the end of the Cold War, and the potential of developing nations.</td>
</tr>
<tr>
<td>POLS 1200</td>
<td>ETHICAL THEORIES AND MORAL ISSUES IN GOVERNMENT</td>
<td>(2-3)-0-(2-3)</td>
<td>Prerequisite: eligibility for ENGL 1101 Ethics of citizenship, policy-making, and governance. Classical and modern theories of justice, with emphasis on collective goods and individual rights. Three credit option requires student research on distributive justice and public policy.</td>
</tr>
</tbody>
</table>
POLS 2100 INTRODUCTION TO POLITICAL SCIENCE 3-0-3
Prerequisite: eligibility for ENGL 1101
Study of political ideologies and governmental systems that emphasize the development of the state and its functions including: constitutionalism, politics, and individual rights. Introduction to the science of politics through discipline specific writing skills and analytical analysis.

POLS 2200 INTRODUCTION TO AMERICAN GOVERNMENT 3-0-3
Prerequisite: eligibility for ENGL 1101
Study Fundamentals of American national government including Constitution, structure and powers, checks and balances, federalism, political parties and elections, citizen participation and media.

POLS 2290 FOUNDATIONS OF INTERNATIONAL RELATIONS 3-0-3
Prerequisite: eligibility for ENGL 1101
Relations between and among nation-states as posited in the context of diplomacy and international law. Theoretical frameworks for the analysis of selected historical and contemporary international problems and opportunities.

POLS 3001 MOOT COURT I 3-0-3
Prerequisite: Either ENGL 1102 or COMM 2280, and POLS 2200, or permission of the instructor.
Legal argumentation and decision making including writing briefs, research, and forensic skills.

POLS 3002 MOOT COURT II 3-0-3
Prerequisite: B or better in CRJU/POLS 3001
A continuation of Moot Court I, for those ready for a second semester of moot court study and competition.

POLS 3150 AMERICAN SUPREME COURT 3-0-3
Prerequisite: POLS 2200
Structure and functions of the Supreme Court, its use of legal reasoning, and role as policy maker.

POLS 3160 AMERICAN JUDICIAL POLITICS AND STRATEGIES 3-0-3
Prerequisite: POLS 2200
A focused study of the roles played by the federal courts and judges in the American legal system, including political jurisprudence, politics of judicial selection; judicial decision making and strategies, and judicial review in a democracy.

POLS 3200 AMERICAN POLITICAL THOUGHT 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Ideological traditions in American politics. Atlantic republicanism, Lockean liberalism, Jeffersonism, Jacksonian democracy, nineteenth and twentieth century reform and radical movements, pragmatism, neoconservatism, and the influence of religion on American political thought.

POLS 3340 POLITICS AND IDEOLOGY IN CONTEMPORARY EUROPE 3-0-3
Prerequisite: POLS 1150 or POLS 1200 or POLS 2100 or HIST 1111 or HIST 1112
Interaction between political institutions and ideas in contemporary Europe.

POLS 3350 CLASSICS OF POLITICAL THOUGHT 3-0-3
Prerequisite: POLS 1200 or POLS 2100 or HIST 1111 or HIST 1112 or POLS 1150
Selected texts in political theory, ancient and modern.

POLS 3360 SOCIAL THEORY 3-0-3
Prerequisite: SOCI 1101 or POLS 2100
Introduction to sociological theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered. Cross-listed with SOCI 3360.

POLS 3980 AFRICAN AMERICANS & THE AMERICAN POLITICAL SYSTEM 3-0-3
Prerequisite: POLS 1100 or POLS 2100 or POLS 2200 or HIST 1100
Overview of African American politics in the United States from Reconstruction to present, addressing African American political development from theory to application in local, state and national political systems.

POLS 3990 SPECIAL TOPICS IN POLITICAL SCIENCE 3-0-3
Prerequisite: permission of instructor or department or POLS 2100 or POLS 2200 or POLS 1150
Topics and issues not available in other courses. May be repeated as topics vary.
POLS 4100 INDEPENDENT STUDY IN AMERICAN GOVERNMENT  V-V-(1-3)
Prerequisite: permission of instructor or department, or POLS 2100
Advanced, or individualized topics on American government. Emphasis on individual research, reading, and scholarly writing.

POLS 4110 AMERICAN PRESIDENCY  3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Roles of the president as head of government and head of state. Emphasis on constitutional powers, separation of powers, checks and balances, political leadership styles, election politics and media, and the function of executive power in democratic societies.

POLS 4160 THE AMERICAN CONGRESS  3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Bicameral structure and function of the national legislature. Congress as policy-maker and institution of representative government. Role of political parties in Congress.

POLS 4170 CONSTITUTIONAL LAW AND THE FEDERAL SYSTEM  3-0-3
Prerequisite: POLS 2200 and either POLS 3160 or POLS 3150 or POLS/CRJU 5500U
United States Supreme Court opinions on the Constitution. Emphasis on powers of the national government, judicial review, federalism, commerce power, separation of powers, power to tax and spend, and state regulation.

POLS 4171 CONSTITUTIONAL CIVIL LIBERTIES  3-0-3
Prerequisite: POLS 2200, and either POLS 3160 or POLS 3150 or POLS/CRJU 5500U
United States Supreme Court opinions on the Constitution. Emphasis on individual rights, nationalization, of the Bill of Rights, substantive, and procedural due process, freedom of expression, association, religion, privacy, and equal protection.

POLS 4172 TERRORISM AND NATIONAL SECURITY LAW  3-0-3
Prerequisite: CRJU/POLS 2200 or POLS 1100; at least one of the following courses: POLS 5500U or POLS 3150 or POLS 3160
Exploration of the role of law in American national security policy, with a focus on statutes and United States Supreme Court decisions related to terrorism and enemy detainee cases.

POLS 4190 ENVIRONMENTAL LAWS AND REGULATIONS  3-0-3
Prerequisite: POLS 2100 or POLS 2200 or LWSO 2000
An introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology, and issues relating to the impact of environmental laws on society.

POLS 4200 INDEPENDENT STUDY IN INTERNATIONAL RELATIONS  V-V-(1-3)
Prerequisite: permission of instructor or department or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290
Open to seniors. Individual research and reading in international relations under the supervision of a member of the faculty. Primary focus on wide reading, conferences with the advisor, and written reports. Open to students with a 3.0 average in political science and at least a 2.5 GPA overall. Apply to the department by mid-semester preceding the semester independent study is contemplated. Open to transient students only with permission of the department head. Must have at least 12 semester hours in political science at the 3000+ level.

POLS 4210 POLITICS OF PUBLIC POLICY  3-0-3
Prerequisite: POLS 2100 or POLS 2200
This course provides students with the analytical tools to assess the role of politics in policy making. Approaches policy making process as a multi-level analysis of interrelated government institutions and facilitates student processing and evaluation of complex political information embedded in the theory and practice of public policy formation.

POLS 4220 POLITICS OF ECONOMIC INEQUALITY  3-0-3
Prerequisite: POLS 2100 or SOCI 1101 or POLS 2200
Explores the relationship between economic inequality and political voice, institutional governance, and public policy. It considers the causes of economic inequality, historical struggles in political development, and the socio-economic context of economic inequality all within a theoretical framework of equality and inequality. Cross-listed with SOCI 4220.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>POLS 4300</td>
<td>RELIGION AND POLITICAL THOUGHT</td>
<td>3-0-3</td>
<td>Prerequisite: POLS 2100 or permission of instructor</td>
<td>Religious traditions of Judaism, Christianity, and Islam as sources of political ideas.</td>
</tr>
<tr>
<td>POLS 4330</td>
<td>LIBERALISM AND THE MODERN STATE</td>
<td>3-0-3</td>
<td>Prerequisite: POLS/HIST 1100 or HIST 1112 or POLS 1200 or POLS 2100</td>
<td>Historical and conceptual development in the theory and practice of liberal democracy from the 17th century to the present.</td>
</tr>
<tr>
<td>POLS 4400</td>
<td>INDEPENDENT STUDY IN COMPARATIVE GOVERNMENT</td>
<td>3-0-3</td>
<td>Prerequisite: permission of instructor or department or POLS 1150 or POLS 2290</td>
<td>Open to juniors or above. Individual research and reading in comparative government under the supervision of a member of the faculty. Primary focus on wide reading, conferences with the advisor and written reports. Open to students with a minimum of 90 semester hours, including 12 semester hours in political science at the 3000 level or above; must have a 3.0 average in political science or a 2.5 overall GPA. Apply to department by the mid-semester preceding the semester independent study is contemplated. Open to transient students only with permission of the department head.</td>
</tr>
<tr>
<td>POLS 4540</td>
<td>INTERNATIONAL POLITICAL ECONOMY</td>
<td>3-0-3</td>
<td>Prerequisite: POLS 1150 or POLS 2290 or ECON 2105</td>
<td>Examination of transnational problems and dilemmas related to the production, distribution, and consumption of scarce resources and the role of states and international institutions in shaping the structures of global political economy.</td>
</tr>
<tr>
<td>POLS 4620,</td>
<td>INTERNSHIP</td>
<td>V-V-3</td>
<td>Prerequisite: permission of instructor or department</td>
<td>Open only to juniors or above. Field experience in government, public service or applied politics. Graded on an satisfactory/unsatisfactory (S/U) basis.</td>
</tr>
<tr>
<td>POLS 4650</td>
<td>PRACTICUM</td>
<td>V-V-3</td>
<td>Prerequisite: permission of instructor or department</td>
<td>Open only to juniors or above. Student will pursue a research topic along with his/her field experience in government, public service or applied politics. Research paper or portfolio required.</td>
</tr>
<tr>
<td>POLS 4950</td>
<td>POLITICAL RESEARCH METHODS</td>
<td>3-0-3</td>
<td>Prerequisite: a grade of C or better in Math 2200</td>
<td>Open to juniors and seniors. Methods and techniques of research in the social sciences especially oriented to the needs of the political science major. Emphasis on evaluating research.</td>
</tr>
<tr>
<td>POLS 4951</td>
<td>DIRECTED RESEARCH IN POLITICAL SCIENCE</td>
<td>3-0-3</td>
<td>Prerequisite: Instructor approval and POLS 4950 or CRJU 3100</td>
<td>Scholarly original research utilizing discipline specific knowledge and applied analysis to existing academic literature.</td>
</tr>
<tr>
<td>POLS 5100U</td>
<td>POLITICS AND THE VISUAL ARTS</td>
<td>3-0-3</td>
<td>Prerequisite: POLS 1100 or HIST 1100 or POLS 1200 or POLS 1150 or HIST 1111 or HIST 1112</td>
<td>Uses of visual media and representation to convey political meanings and messages.</td>
</tr>
<tr>
<td>POLS 5130U</td>
<td>POLITICAL TERRORISM</td>
<td>3-0-3</td>
<td>Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100 or POLS 1150</td>
<td>International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counterterrorism in a democracy. Cross-listed with CRJU 5130U and SOCI 5130U.</td>
</tr>
<tr>
<td>POLS 5140U</td>
<td>ASIAN REGIONAL SECURITY</td>
<td>3-0-3</td>
<td>Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290</td>
<td>Applies international relations theory and conceptual frameworks to a broad discussion of regional policy with a focus on the changing role of China.</td>
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</table>
POLS 5210U INTERNATIONAL LAW 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150
International agreements, cases, and customs on the legal relationships between nations. Emphasis on recognition, state succession, jurisdiction, extradition, nationality, treaties, diplomacy, and war.

POLS 5220U THEORY OF INTERNATIONAL RELATIONS 3-0-3
Prerequisite: POLS 1100 or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100
Relations among nations with emphasis on political realism vs. idealism in international politics, causes of war, and conflict resolution methods. Covers some of the pertinent global issues of the post-Cold War Era; e.g. nuclear proliferation, multinational corporations, environmental and public health, and human rights protection issues.

POLS 5250U INTERNATIONAL ORGANIZATIONS 3-0-3
Prerequisite: POLS 1100 or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100
Survey of formal international organizations, treaty organizations, regional organizations, trade and development organizations, and international non-governmental organizations with emphasis upon the role of these institutions in the maintenance of peace, trade, and security.

POLS 5270U INTELLIGENCE AND NATIONAL SECURITY POLICY 3-0-3
Prerequisite: POLS 2200
An examination of the roles played by the president, the National Security Council, the Cabinet Departments of State, Defense, and Homeland Security, and the intelligence community in the national security/defense policy-making process.

POLS 5280U SEMINAR IN GLOBAL POLITICS 3-0-3
Prerequisite: POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100
Political structures and leadership strategies in a postmodern world. Topics will include issues covering the European Union, political transitions in the Middle East and Africa, Latin America, and Southeast Asia.

POLS 5290U AMERICAN FOREIGN POLICY 3-0-3
Prerequisite: POLS 1150, 2200, or 2290
Analysis of United States foreign policy and factors, both domestic and global, contributing to its formulation

POLS 5291U CONSTITUTIONAL LAW OF FOREIGN POLICY 3-0-3
Prerequisite: Permission of the instructor
An exploration of the narrow intersection of American constitutional law and foreign policy, powers of the executive and legislative in foreign policy, and issues such as the war, treaty, and spending powers.

POLS 5300U MARXISM, SOCIALISM, AND DEMOCRACY 3-0-3
Prerequisite: POLS 1150 or POLS 1200 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1112
Readings in Marxist and other socialist texts as well as critiques of socialism. Examination of communist regimes, revolutions, and social democratic governments. Evaluation of significance for contemporary democratic theory and practice.

POLS 5410U ASIA AND THE UNITED STATES 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290
How the U.S. and Asian countries grapple with key issues facing the world today such as trade, security, and environment.

POLS 5420U POLITICS OF THE MIDDLE EAST 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150
A descriptive look at and comparison of the governments of the 24 nation-states that comprise the area generally referred to as the Middle East.

POLS 5430U AFRICAN POLITICS 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2290 or POLS 2200
Political institutions and governments of Africa and the African Union, ethnic conflict and state disintegration, democratization and post-colonial political economy, post-Apartheid South Africa, public health and environmental issues of the continent.
POLS 5440U LATIN AMERICAN POLITICS 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1150 or POLS 2200 or POLS 2290
Examination of cultural, social, and economic problems facing the region, the challenges to democratic consolidation, patterns of historical development, interest groups, political parties, and civil-military relations in post-authoritarian Latin America.

POLS 5450U POLITICAL SOCIOLOGY OF NATIONALISM 3-0-3
Prerequisite: POLS 2100 or SOCI 1101
Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

POLS 5460U POLITICS OF EAST ASIA 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1150 or POLS 2200 or POLS 2290
Primer on the history, nationalism, political institutions, maritime disputes and economic development of Southeast and East Asia. Offers a comprehensive and integrated introduction to the present problems and issues of the region.

POLS 5490U POLITICAL TRANSFORMATION OF THE FORMER SOVIET UNION 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1150 or POLS 2200 or POLS 2290
Political change in the former Soviet Union with emphasis on the new direction of the political, economic and social transformation of the regime. Comparison of tsarist autocracy, Soviet totalitarianism, and the contemporary Russian political system.

POLS 5500U LAW AND LEGAL PROCESS 3-0-3
Prerequisite: HIST 1100 or POLS 2100 or POLS 1150 or CRJU 1100 or POLS 2200 or POLS 2290
Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of the legal process viewed from the perspectives of jurisprudence, political science, and sociology. Crosslisted as CRJU 5500U.

POLS 5510U THIRD WORLD NATIONAL SECURITY 3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1150 or POLS 2200 or POLS 2290
Examination of the role, behavior and perspective of Third World nations in the international system, including ethnic conflicts, war, and their search for stability within a chaotic world.

POLS 5520U COMPARATIVE JUDICIAL SYSTEMS 3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1150 or POLS 2290
Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as CRJU 5520U.

POLS 5530U GLOBAL ENVIRONMENTAL POLITICS 3-0-3
Prerequisite: POLS 1150 or POLS 2290 or POLS 2100 or POLS 2200 or HIST 1100 or POLS 1100
Introduction to the politics of environmental issues from local, national, and international perspectives including public perception, competing ideologies, the nature of the political process, the courts, the media, and political institutions.

POLS 5550U INSURGENCY AND COUNTERINSURGENCY 3-0-3
Prerequisite: POLS 1150 or POLS 2290 or POLS 2100 or HIST 1112
An examination of the forms of organized movement aimed at the overthrow of a government through the use of violence and the measurements taken by a government to defeat insurgency.

POLS 5560U COMPARATIVE FOREIGN POLICY 3-0-3
Prerequisite: POLS 2100 or POLS 2200 or HIST 1100 or POLS 1150 or POLS 2290 or POLS 1100
Examination of various theories of state type and foreign policy behavior and evaluation of such theories in foreign policy analysis.

POLS 5570U POLITICS & SECURITY IN SOUTHWEST ASIA 3-0-3
Prerequisites: HIST 1111 or HIST 1112 or POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290
An in-depth understanding of the political and security challenges confronting Southwest Asia (Pakistan, Afghanistan, India) and how those challenges affect global security.
COURSE DESCRIPTIONS

POLS 5580U VIOLENT NON-STATE ACTORS (VNSAS) 3-0-3
Prerequisite: POLS 1150 or POLS 2290 or POLS 2100 or HIST 1112
An examination of the different types of VNSAs and how they challenge the nation-state.

POLS 5700 U PERSPECTIVES IN FEMINIST THEORY 3-0-3
Prerequisite: ENGL 2100 or permission of instructor
An in-depth look at Feminist Theory. This course may be taught from the perspective of a particular discipline. Cross-listed with GWST 5700U.

PSYC – Psychology

PSYC 1101 INTRODUCTION TO PSYCHOLOGY 3-0-3
Prerequisite: eligibility for ENGL 1101
Introduction to the vocabulary, concepts, and methods of the science of behavior and mental processes, surveying all areas of psychology.

PSYC 1101H HONORS INTRODUCTION TO PSYCHOLOGY 3-0-3
Prerequisite: acceptance in honors program
Course content similar to PSYC1101, but emphasis on psychology as a laboratory science. Students will have significant class participation responsibilities.

PSYC 1200 DRUGS AND BEHAVIOR 3-0-3
Prerequisite: eligibility for ENGL 1101
Introduction to the use of drugs and their influence on brain and behavior. The course is for non-science majors and does not count towards a degree in Psychology.

PSYC 2000 ETHICS AND VALUES IN PSYCHOLOGY 3-0-3
Prerequisite or corequisite: ENGL 1101
Selected issues in ethics and values considered from a psychological perspective. Topics discussed may include ethical issues encountered in psychological research and practice.

PSYC 2190 – CAREERS AND PROFESSIONAL SKILLS IN PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101and MATH 2200 (minimum grade of C)
Corequisite: PSYC 2200 and 2201
Overview of the employment opportunities and introduction to professional skills.

PSYC 2200 INTRODUCTION TO PSYCHOLOGICAL RESEARCH 3-0-3
Prerequisite: PSYC 1101 and MATH 2200 (minimum grade of C)
Prerequisite or Corequisites: PSYC 2190 and PSYC 2201
An introduction to scientific methodology and its application to psychology, with emphasis on data collection methods and statistical techniques including, but not limited to, correlation, factorial ANOVA, and nonparametric procedures. Students are required to perform statistical analyses using SPSS statistical programs, conduct an original psychological investigation, and write an APA style report of the research.

PSYC 2201 INTRODUCTION TO PSYCHOLOGICAL RESEARCH LABORATORY 0-1-1
Prerequisite: PSYC 1101 and MATH 2200 (minimum grade of C)
Co-requisites: PSYC 2190 and PSYC 2200
Develop and construct a psychological experiment. Collect and analyze data, and write an APA-style report.

PSYC 2300 GLOBAL PERSPECTIVES IN DEVELOPMENTAL PSYCHOLOGY 3-0-3
Prerequisite: eligibility for ENGL 1101
Exploration of physical, cognitive, and social development from a multicultural viewpoint. Emphasis on cross-cultural research applied to human development across the lifespan.

PSYC 2950 LIFESPAN DEVELOPMENTAL PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Examination of basic principles of human psychological development from conception through old age as these relate to biological, cognitive, and social development. Not designed for psychology majors.
PSYC 3000 – HUMAN RESOURCE DEVELOPMENT SKILLS  
Prerequisite: PSYC 1101
Introduction to theoretical and applied intervention principles of human resources development for public and private settings.

PSYC 3020 PSYCHOLOGICAL TESTING  
Prerequisite: PSYC 1101
Individual and group tests in psychological, educational, and clinical settings. Focus on the theoretical and statistical principles that underlie psychological and educational measurement and standardized psychological instruments, and ethical issues in psychological testing.

PSYC 3030 EXPERIMENTAL SOCIAL PSYCHOLOGY  
Prerequisite: PSYC 1101
Behavior of others as determinants of the behavior of the individual, identifying factors that shape feelings, behavior, and thoughts in social situations.

PSYC 3050 CHILD PSYCHOLOGY  
Prerequisite: PSYC 1101
Examination of psychological theories, research, and application of psychology of the child from conception through adolescence. Surveys recent literature within the areas of perpetual, biological, cognitive, and social/emotional development.

PSYC 3070 SENSATION AND PERCEPTION  
Prerequisite: PSYC 1101
Experimental and theoretical analysis of the nature of sensory and perceptual processes.

PSYC 3080 EVOLUTIONARY PSYCHOLOGY  
Prerequisite: PSYC 1101 or PSYC 1101H, BIOL 1107/1107L or BIOL 1107H/BIOL 1107A, and BIOL 1108 or BIOL 1108H
An examination of the role of evolutionary theory in contemporary psychological science.

PSYC 3090 PHYSIOLOGICAL PSYCHOLOGY  
Prerequisite: PSYC 1101, BIOL 1107/1107L and BIOL 1108 each with a grade of C or better
Structure and function of the nervous system and its relationship to behavior.

PSYC 3100 PSYCHOLOGY OF HUMAN SEXUALITY  
Prerequisite: PSYC 1101
An examination of the developmental, physiological, clinical, and social aspects of human sexuality. Emphasis on the various components of human sexuality from a developmental perspective.

PSYC 3110 THEORIES OF PERSONALITY  
Prerequisite: PSYC 1101
Selected personality theories with emphasis on normal behavior with attention to both experimental and clinical data. Determinants of personality structure and the development of personality from divergent points of view.

PSYC 3160 CLINICAL PSYCHOLOGY  
Prerequisite: PSYC 1101
Application of psychological theories to the understanding and treatment of behavioral problems and disorders, including the history of clinical psychology, educational and training requirements, and specialized areas of practice.

PSYC 3190 COMPARATIVE PSYCHOLOGY  
Prerequisite: PSYC 1101 or PSYC 1101H
Adaptations and behaviors with which living organisms cope with their environments viewed from mechanistic, cognitive, developmental, and evolutionary perspectives.

PSYC 3200 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY  
Prerequisite: PSYC 1101
Applications of psychological principles to business and professional settings, including power politics, leadership, organization development, job analysis, performance appraisal, and employee selection.
PSYC 3280 ABNORMAL PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Etiology, prevention, and treatment of psychological disorders, along with theoretical perspectives and socio-cultural views of abnormal behavior.

PSYC 3400 - INTRODUCTION TO LEARNING 3-0-3
Prerequisite: PSYC 1101
Introduction to the variables and processes responsible for conditioning and learning in humans and non-humans. Application of principles and real-world examples. In the B.S. degree it counts as an elective only.

PSYC 3500 COGNITIVE PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Issues related to the various models of human information processing with an emphasis on perceptual and linguistic development, including principles and applications derived from basic research.

PSYC 3800 HEALTH PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Examination of biological, psychological, and social factors that interact with and affect health and illness. Topics discussed may include but are not limited to the psychophysiology of stress and pain and recovery, rehabilitation, and psychosocial adjustment of individuals with health problems.

PSYC 3850 SPORTS PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Addresses psychological factors associated with superior athletic performance for individuals and teams. Topics include learning, motivation, leadership, and the examination of mental training strategies designed to enhance performance.

PSYC 3950 RESEARCH IN PSYCHOLOGY V-V-(1-6)
Prerequisite: junior standing, permission of department head, and agreement by a faculty member to supervise the research.
Uncompensated research to be assigned and directed by a faculty member of the Department of Psychology. Students will conduct research which may include a literature search, field or laboratory observation and experimentation, data reduction and analysis, and written and/or oral presentation of results. The research experience will be evaluated by a rotating committee of the departmental faculty before the initiation of the project, and again upon completion of the work. Credit will vary depending on the work to be completed. Course may be repeated up to a total of six (6) credit hours.

PSYC 4050 ADVANCED RESEARCH DESIGN AND ANALYSIS 3-0-3
Prerequisite: PSYC 1101 and PSYC 2200 (minimum grade of C) and PSYC 2201 (minimum grade of C)
Examination and critique of research designs in the literature of scientific psychology. Topics include conceptual and mathematical foundations for common measurement and analytical procedures which may include parametric and nonparametric tests.

PSYC 4051 ADVANCED RESEARCH DESIGN AND ANALYSIS LAB 0-1-1
Corequisite: PSYC 4050
Develop and conduct a required, original research project. Students apply statistical procedures to analyze data and compose an empirical article that conforms to APA standards.

PSYC 4090 LEARNING AND BEHAVIOR 3-0-3
Prerequisite: PSYC 1101 and PSYC 2200
Corequisite: PSYC 4091
An examination of basic learning processes and theories. Emphasis on experimental procedures used in the laboratory to better understand human behavior.

PSYC 4091 LEARNING AND BEHAVIOR LABORATORY 0-1-1
Corequisite: PSYC 4090
Conduct behavioral experiments with nonhuman animals. Collect and analyze data and write research reports.
PSYC 4100 HISTORY AND SYSTEMS OF PSYCHOLOGY 3-0-3
Prerequisite: A minimum grade of C in 18 hours of PSYC courses and permission of the instructor.
Topics covered include early animism, Cartesian dualism, British associationism, Darwinian adaptation, consciousness, the unconscious, various behaviorisms, and cognitive science. Special attention is given to the influence of philosophy in the history of psychology.

PSYC 4120 SENIOR PROJECT 3-0-3
Prerequisite: PSYC 1101 and permission of supervising instructor
Open only to seniors. Project with a faculty member qualified in the student’s area of interest to begin in the first semester of the senior year (register for the semester of expected completion). Scholarly paper acceptable to the departmental faculty required.

PSYC 4129 - SERVICE LEARNING IN PSYCHOLOGY V-V (1-3)
Prerequisite: PSYC 1101 and permission of supervising instructor. Must be a declared psychology major.
Student-arranged and instructor-approved service with a sponsoring organization providing a qualified supervisor. Instructor will establish criteria, including minimum hours of service, for successful completion of the course.

PSYC 4130 SENIOR INTERNSHIP V-V-(3-9)
Prerequisite: PSYC 1101, minimum Psychology GPA of 2.5, and permission of supervising instructor (senior standing strongly recommended)
Open only to seniors unless special permission is granted. Individually designed work experience in an applied setting with the sponsoring organization providing a qualified supervisor. Faculty advisor will establish performance criteria and evaluate accordingly. Scholarly paper or project to be judged by department faculty required. Course may be repeated up to a total of nine (9) credit hours. Initial or continued internship placement is not guaranteed.

PSYC 4140 CLASSROOM LEADERSHIP PRACTICUM 3-0-3
Prerequisite: PSYC 1101, a grade of A in the course for which the student will serve as a student leader, permission of supervising instructor, and approval of department head
Focuses on the scholarship of teaching psychology. Student provides academic support and mentoring. The course instructor will establish responsibilities and performance criteria, which may include, but are not limited to, mentoring, leading or co-leading class discussions, planning and delivering course presentations under supervision, and assisting with the development of class and out-of-class activities. Scholarly paper that integrates the literature on the teaching of psychology with actual experience is required.

PSYC 5010U, -20U, SPECIAL TOPICS IN PSYCHOLOGY 3-0-3
Prerequisite: PSYC 1101
Upper-level courses not otherwise offered in the psychology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor. Special topics courses may satisfy sections II-V of the major course requirements at the discretion of the department head.

PSYC 5060U BASIC BEHAVIOR PRINCIPLES AND BEHAVIOR CHANGE 3-0-3
Prerequisite: PSYC 1101 or PSYC 1101H, and either PSYC 3400 or both PSYC 4090 and 4091
Basic principles of behavior analysis, the definition and characteristics of applied behavior analysis, and behavior change procedures, including positive and negative reinforcement, schedules of reinforcement, punishment, imitation, shaping and chaining, extinction, differential reinforcement, and antecedent interventions.

PSYC 5061U ADVANCED BEHAVIORAL ASSESSMENT 3-0-3
Prerequisite: PSYC 5060U
Measurement of behavior, displaying and interpreting behavioral data, experimental evaluation of interventions, selecting intervention outcomes and strategies, behavioral assessment, and ethical considerations. Includes selecting and defining target behaviors, examination of single-subject experimental designs, planning and evaluating behavior analysis research, functional behavior assessment, and a practicum experience.

PSYC 5062U ADVANCED BEHAVIOR CHANGE TECHNIQUES 3-0-3
Prerequisite: PSYC 5061U
Seminar course in which students design, implement, and evaluate behavior change programs to practice selection of intervention outcomes and strategies, behavioral measurement and assessment, use behavior change procedures and systems support.
PSYC 5100U WOMEN AND MENTAL HEALTH  3-0-3
Prerequisite: PSYC 1101 or PSYC 1101H
A review of current research and theory related to women’s mental health, including psychological phenomena and disorders prevalent at higher rates among women and a discussion of biopsychosocial factors influencing gender differences in mental health and illness.

PSYC 5150U CONFLICT RESOLUTION  3-0-3
Prerequisite: PSYC 1101
Social processes of conflict between parties (individuals or groups) and techniques for collaborative resolutions, with special emphasis on mediation processes.

PSYC 5300U LEADERSHIP AND GROUP DYNAMICS  3-0-3
Prerequisite: PSYC 1101
Exploration of the social psychological approach to leadership development and the role of the leader in influencing group dynamics. Emphasis on the application of research findings in social psychology to the development of leadership skills.

PUBH – Public Health
PUBH 5550U NUTRITION  3-0-3
Basic concepts of nutrition as major component to the enhancement of health.

PUBH 5560U INTRODUCTION TO INTERNATIONAL HEALTH  3-0-3
Introduction of the application of public health and its relationship to other health disciplines in the field of international health.

PUBH 5565U STRATEGIES FOR THE PREVENTION OF CHEMICAL DEPENDENCY  3-0-3
Educational strategies and techniques related to prevention of chemical dependency.

PUBH 5570U WOMEN AND MINORITY HEALTH ISSUES  3-0-3
The exploration of contemporary public health issues concerning women and minorities.

PUBH 5575U HEALTH AND SEXUALITY  3-0-3
Investigation of human sexuality and its effects on health.

PUBH 5585U – EPIDEMIC DISEASE: SOCIAL, HISTORICAL AND ETHICAL PERSPECTIVES  3-0-3
Examines the effects of epidemic disease on human societies from the ancient period to the present, and on future scenarios.

PUBH 5600U HEALTHY WEIGHT MGMT & BODY COMP  3-0-3
A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass.

PUBH 5800U EPIDEMIOLOGY OF CANCER  3-0-3
This course will examine the epidemiology of cancer in contemporary populations.

RADR – Radiography
RADR 3001 RADIOGRAPHY I  6-2-6
Prerequisite: Open to majors in Radiologic Sciences, Radiography Track
Corequisite: RDSC 3001
Procedures involving the chest, abdomen, bony thorax, and visceral organs requiring the use of contrast media, including spatial relationships, and pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes radiographic and fluoroscopy equipment overview, iodinated contrast media & interaction, and an introduction to trauma, surgical, & neonatal radiography.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RADR 3002</td>
<td>RADIOGRAPHY II</td>
<td>6-2-6</td>
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<tr>
<td></td>
<td>Prerequisite: RADR 3001</td>
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<td></td>
<td>Corequisite: RDSC 3002</td>
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<tr>
<td></td>
<td>Procedures involving extremities, shoulder girdle, and pelvic girdle, including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes study of radiographic equipment and the physics of specialized imaging modalities and an introduction to computed tomography.</td>
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<tr>
<td>RADR 3003</td>
<td>RADIOGRAPHY III</td>
<td>6-3-6</td>
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<td></td>
<td>Prerequisite: RADR 3002</td>
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<td></td>
<td>Corequisite: RDSC 3002</td>
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<td></td>
<td>Procedures involving vertebral column, reproductive organs and facial bones including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes equipment testing, analysis of quality control data and quality assurance data, federal government guidelines and introduction to total quality management concepts and procedures.</td>
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<tr>
<td>RADR 3100</td>
<td>INTRODUCTION TO RADIOGRAPHY CLINICAL EDUCATION</td>
<td>1-V-1</td>
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<tr>
<td></td>
<td>Prerequisite: RADR 3001</td>
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<td></td>
<td>Corequisite: RADR 3002</td>
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<tr>
<td></td>
<td>Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.</td>
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<tr>
<td>RADR 4101</td>
<td>RADIOGRAPHY CLINICAL EDUCATION I</td>
<td>0-V-5</td>
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<tr>
<td></td>
<td>Prerequisite: RADR 3100, DDTS 3001</td>
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<tr>
<td></td>
<td>Supervised clinical practice in performing radiographic procedures.</td>
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<tr>
<td>RADR 4102</td>
<td>RADIOGRAPHY CLINICAL EDUCATION II</td>
<td>0-V-3</td>
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<td></td>
<td>Prerequisite: RADR 4101</td>
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<td></td>
<td>Supervised clinical practice in performing radiographic procedures.</td>
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<tr>
<td>RADR 4103</td>
<td>RADIOGRAPHY CLINICAL EDUCATION III</td>
<td>0-V-(6-9)</td>
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<td>Prerequisite: RADR 4102</td>
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<td></td>
<td>Supervised clinical practice in performing radiographic procedures.</td>
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<td>RADR 4200</td>
<td>RADIOGRAPHY SYNTHESIS</td>
<td>3-0-3</td>
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<td>Prerequisite: RADR 3003 &amp; RADR 4102</td>
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<td></td>
<td>A discussion of general and advanced theoretical concepts of Radiography</td>
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<tr>
<td>RADS – Radiologic Sciences</td>
<td>RADS 2000 TERMINOLOGY OF IMAGING AND RADIOLOGIC SCIENCES</td>
<td>1-0-1</td>
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<td></td>
<td>Prerequisite: ENGL 1101</td>
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<td></td>
<td>Exploration of medical terms related to Radiologic Sciences. Also includes terminology and track specific content related to radiologic sciences.</td>
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<tr>
<td>RADS 3000</td>
<td>INTRODUCTION TO RADIOLOGIC SCIENCES</td>
<td>2-1-2</td>
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<td></td>
<td>Open only to majors in radiologic sciences. Professional organizations, specialties, accreditation, certification, licensure, professional development, ethics legal issues, radiation protection methodology, and elementary imaging concepts.</td>
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<tr>
<td>RADS 3050</td>
<td>PATIENT CARE AND INTERACTION</td>
<td>3-2-3</td>
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<td>Open only to majors in radiologic sciences. Physical and psychological needs of the family and patient, patient transfer techniques, interaction with the terminally ill, vital signs, administration of injections and pharmaceuticals, IV and tube maintenance, urinary catheterization, acquisition and interpretation of EKG’s, emergency medical situations, infectious disease processes and universal precautions.</td>
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<tr>
<td>RADS 3071</td>
<td>IMAGING AND RADIATION PROCEDURES I</td>
<td>3-2-3</td>
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<td></td>
<td>Prerequisite: Open only to majors in radiologic sciences. Procedures involving the chest, abdomen, bony thorax, and visceral organs requiring the use of contrast media, including spatial relationships, and pathology, equipment manipulation, and quality evaluation of radiographic examinations.</td>
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</tbody>
</table>
RADS 3072 IMAGING AND RADIATION PROCEDURES II 3-2-3
Prerequisite: RADS 3071
Procedures involving extremities, shoulder girdle, and pelvic girdle, including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations.

RADS 3073 IMAGING AND RADIATION PROCEDURES III 2-2-2
Prerequisite or corequisite: RADS 3072
Procedures involving vertebral column, including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations.

RADS 3074 IMAGING AND RADIATION PROCEDURES IV 1-1-1
Prerequisite: RADS 3073
Procedures involving reproductive organs and facial bones including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations.

RADS 3080 PROFESSIONAL INTERACTIONS 0-3-1
Prerequisite or corequisite: RADS 3000
A seminar focused on professional interactions in Radiologic Sciences.

RADS 3090 INTRODUCTION TO RADIATION PHYSICS 3-1-3
Prerequisite: MATH 1111
Prerequisite or corequisite: RADS 3000
Mechanics, electromagnetic physics and nuclear physics as they relate to the medical setting.

RADS 3100 MEDICAL COMMUNICATION SKILLS (1-1-1)
Prerequisite: Formal admission to Bridge Program.
Open only to majors in radiologic sciences. Content is designed to expand the knowledge base and skills necessary for the practitioner to communicate effectively.

RADS 3112 INTRODUCTION TO COMPUTED TOMOGRAPHY 1-0-1
Prerequisite: Admission to major
An overview of Computed Tomography technology, computer reconstructions algorithms, and clinical application.

RADS 3150 RADIOBIOLOGY AND RADIATION PROTECTION 3-1-3
Prerequisite: RADS 3000
Biological, chemical, and physical effects of radiation. Emphasis on radiation measurement and exposure reduction to minimize somatic and genetic effects. Performance of radiation surveys and radiobiologic research.

RADS 3161 RADIOGRAPHY CLINICAL EDUCATION I 0-20-3
Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3050 and RADS 3060 and RADS 3071
Supervised clinical practice in performing radiographic procedures.

RADS 3162 RADIOGRAPHY CLINICAL EDUCATION II 0-20-3
Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3072 and RADS 3161
Supervised clinical practice in performing radiographic procedures.

RADS 3190 PRINCIPLES OF RADIATION THERAPY 3-0-3
Prerequisite: Formal admission to radiation therapy track.
Corequisite: RADS 3000
An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery.

RADS 3195 RADIATION THERAPY PROCEDURES 3-2-3
Corequisite: RADS 3000
Introduction to principles of patient simulation and treatment with emphasis upon radiation therapy equipment operation and utilization.
RADS 3200 IMAGING PATHOLOGY 3-0-3
Prerequisite: BIOL 2082 and RADS 3000 or permission of instructor or department.
A survey of human pathology as demonstrated by radiologic imaging. Includes ultrasound, CT, MRI, nuclear medicine, and radiographic images of cancer, vascular diseases, trauma, anomalies and other disease processes.

RADS 3301 RADIATION THERAPY CLINICAL EDUCATION I 0-16-2
Prerequisite: Permission of instructor or department and RADS 3195
A supervised clinical experience in the application and delivery of radiation therapy.

RADS 3302 RADIATION THERAPY CLINICAL EDUCATION II 0-16-2
Prerequisite: permission of instructor or department and RADS 3301
A supervised clinical experience in the application and delivery of radiation therapy.

RADS 3450 LEADERSHIP IN HEALTHCARE 2-0-2
Prerequisite: Formal admission to department.
The course introduces leadership concepts, focusing on the contemporary theories of leadership. Instructional areas include servant leadership, moral roots of responsible leadership, and effectiveness. A course component will include a leadership service learning practicum.

RADS 3451 LEADERSHIP PRACTICUM 0-1-1
Prerequisite or corequisite: RADS 3450
Application of theoretical leadership concepts.

RADS 3455 INTRODUCTION TO BIOETHICS 3-0-3
Prerequisite ENGL 1102
An introductory course that focuses on biotechnology and health care ethical issues.

RADS 3499 FOUNDATIONS IN NUCLEAR MEDICINE 1-0-1
Prerequisite: Formal admission to the Nuclear Medicine Track
Corequisite: RADS 3501
Introduction to the concepts, terminology and practices related to nuclear medicine.

RADS 3501 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE I 3-2-3
Prerequisite or corequisite: Formal admission to the Nuclear Medicine Track.
Introduction to the theory and principles of Nuclear Medicine. Basic principles involved in imaging and diagnoses.

RADS 3502 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE II 3-2-3
Prerequisite: RADS 3501
A continuation of the basic principles involved in imaging and diagnoses. Topics include non-imaging in-vivo and in-vitro procedures and radionuclide therapy.

RADS 3503 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE III 3-2-3
Prerequisite: RADS 3502 and RADS 3520
A continuation of the basic principles involved in imaging and diagnoses with an introduction to advanced theory in nuclear medicine.

RADS 3510 NUCLEAR MEDICINE INSTRUMENTATION 1-0-1
Prerequisite or corequisite: RADS 3501
Principles of radiation detection equipment and instrumentation employed in nuclear medicine procedures. Topics include detection systems, QC/QA, collimation, tomography, and computer applications.

RADS 3520 RADIOPHARMACY AND RADIOCHEMISTRY 3-1-3
Prerequisite or corequisite: RADS 3501
Radionuclide production, mechanisms of radionuclide localization, preparation and use of radiopharmaceuticals, quality control of radiopharmaceuticals, and governmental regulations.

RADS 3531 NUCLEAR MEDICINE CLINICAL EDUCATION I 0-20-2
Prerequisite: RADS 3520
Prerequisite or corequisite: RADS 3502
Supervised clinical practice in performing nuclear medicine procedures.
COURSE DESCRIPTIONS

RADS 3532 NUCLEAR MEDICINE CLINICAL EDUCATION II 0-18-4
Prerequisite: RADS 3531, RADS 3503, RADS 3520
Supervised clinical practice in performing nuclear medicine procedures.

RADS 3600 INTRODUCTION TO SONOGRAPHY 3-1-3
Prerequisite: Formal admission to the Sonography Track.
Introduction to specialties, theoretical concepts, standards and practices related to diagnostic medical sonography.

RADS 3601 SONOGRAPHIC THEORY I 3-2-4
Prerequisite or corequisite: Formal admission to the Sonography track or permission of instructor or department.
Theoretical sonographic concepts of abdominal, gynecological, and obstetrical procedures.

RADS 3602 SONOGRAPHIC THEORY II 3-2-4
Prerequisite: RADS 3601
Continuation of Sonographic Theory I. Includes invasive procedures and advanced scanning techniques.

RADS 3603 SONOGRAPHIC THEORY III 3-2-4
Prerequisite: RADS 3602
Continuation of Sonographic Theory II.

RADS 3604 SONOGRAPHIC THEORY IV 3-2-4
Prerequisite: RADS 3603, formal admission to the Sonography Track.
Continuation of Sonographic Theory III to include advanced topics.

RADS 3631 SONOGRAPHY CLINICAL EDUCATION I 0-18-2
Prerequisite or corequisite: RADS 3601, RADS 3050, and RADS 3600.
Supervised clinical practice in performing Sonographic procedures.

RADS 3632 SONOGRAPHY CLINICAL EDUCATION II 0-18-3
Prerequisite: RADS 3631 and RADS 3602.
Supervised clinical practice in performing Sonographic procedures.

RADS 3651 SONOGRAPHIC PHYSICS I 3-1-3
Prerequisite: PHSC 1211/1211L or PHYS 1111K or permission of instructor or department.
An introduction to ultrasound instrumentation, propagation principles and interactions.

RADS 3652 SONOGRAPHIC PHYSICS II 3-1-3
Prerequisite: RADS 3651 or permission of instructor or department.
Continuation of RADS 3651 to include ultrasound instrumentation, propagation principles and interactions and Doppler Physics.

RADS 3750 ADVANCED PATIENT CARE 3-1-3
Prerequisite: RADS 3050, 3761
Indications and contraindications for diagnostic and therapeutic cardiovascular procedures and an analysis of treatment modalities.

RADS 3761 CARDIOVASCULAR CLINICAL EDUCATION I 0-20-2
Prerequisite: RADS 3771
Prerequisite or corequisite: RADS 3772, RADS 3150, RADS 3775
An introduction to cardiovascular diagnosis and treatment in the clinical environment. Clinical practice areas will include endovascular diagnostics, cardiac diagnostics, cardiac or vascular interventional procedures, and electrophysiological studies.

RADS 3762 CARDIOVASCULAR CLINICAL EDUCATION II 0-20-3
Prerequisite: RADS 3761
Prerequisite or corequisite: RADS 4751, RADS 4752
Supervised clinical experience in cardiovascular/interventional procedures.

RADS 3771 INTRODUCTION TO CARDIOVASCULAR INTERVENTIONAL SCIENCE 2-1-2
Prerequisite: Formal admission to the cardiovascular/interventional science track.
An introduction to the concepts and techniques involved in the diagnosis of cardiac and vascular disease.
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>RADS 3772</td>
<td>CARDIOVASCULAR IMAGING AND EQUIPMENT</td>
<td>2-1-2</td>
<td>Prerequisite: RADS 3771. The operation and clinical application of equipment, devices, and technology utilized in the diagnosis of cardiac and vascular disease.</td>
</tr>
<tr>
<td>RADS 3775</td>
<td>ADVANCED PATIENT CARE AND MONITORING</td>
<td>4-1-4</td>
<td>Prerequisite or corequisite: RADS 3772, RADS 3050, RADS 3090. Indications for diagnostic and therapeutic cardiovascular procedures and an analysis of treatment modalities. Caring for the cardiovascular procedural patient, pre, intra, and post procedure are emphasized.</td>
</tr>
<tr>
<td>RADS 3900</td>
<td>SPECIAL TOPICS IN RADIOLOGIC SCIENCES</td>
<td>V-0-[1-6]</td>
<td>Prerequisite: Permission of Instructor. Supervised independent study.</td>
</tr>
<tr>
<td>RADS 4050</td>
<td>QUALITY MANAGEMENT IN RADIOGRAPHY</td>
<td>2-2-2</td>
<td>Prerequisite: RADS 3090. Equipment testing, analysis of quality control data and quality assurance data, federal government guidelines and introduction to total quality management concepts and procedures.</td>
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<tr>
<td>RADS 4090</td>
<td>RADIOGRAPHIC PHYSICS</td>
<td>3-1-3</td>
<td>Prerequisite: RADS 3090. Study of radiographic equipment and the physics of specialized imaging modalities.</td>
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<tr>
<td>RADS 4111</td>
<td>ADVANCED IMAGING IN MRI</td>
<td>3-0-3</td>
<td>Prerequisite: permission of instructor or department and RADS 3090. Instrumentation, operation, and clinical uses of magnetic resonance imaging.</td>
</tr>
<tr>
<td>RADS 4112</td>
<td>ADVANCED IMAGING IN COMPUTED TOMOGRAPHY</td>
<td>3-0-3</td>
<td>Prerequisite: RADS 3090 and RADS 3112 or permission of instructor. Instrumentation, operation, and clinical uses of computed tomography.</td>
</tr>
<tr>
<td>RADS 4113</td>
<td>ADVANCED IMAGING IN MAMMOGRAPHY</td>
<td>3-0-3</td>
<td>Prerequisite: permission of instructor or department and RADS 4090. Instrumentation, operation, and clinical uses of mammography.</td>
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<tr>
<td>RADS 4114</td>
<td>ADVANCED IMAGING IN CVIT</td>
<td>3-0-3</td>
<td>Prerequisite: permission of instructor or department and RADS 4090 or RADS 3652. Instrumentation, operation, and clinical uses of cardiovascular interventional radiology.</td>
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<tr>
<td>RADS 4163</td>
<td>RADIOGRAPHY CLINICAL EDUCATION III</td>
<td>0-V-(1-3)</td>
<td>Prerequisite: permission of instructor or department and RADS 3162. Supervised clinical practice in performing radiographic procedures.</td>
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<tr>
<td>RADS 4164</td>
<td>CLINICAL EDUCATION IV</td>
<td>0-24-5</td>
<td>Prerequisite: permission of instructor or department. Prerequisite or corequisite: RADS 4163. Supervised clinical practice in performing radiographic procedures.</td>
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<tr>
<td>RADS 4171</td>
<td>MAGNETIC RESONANCE CLINICAL EDUCATION</td>
<td>0-20-3</td>
<td>Prerequisite or corequisite: RADS 4111 or permission of instructor. Supervised clinical practice in performing magnetic resonance imaging procedures.</td>
</tr>
<tr>
<td>RADS 4172</td>
<td>COMPUTED TOMOGRAPHY CLINICAL EDUCATION</td>
<td>0-20-3</td>
<td>Prerequisite or corequisite: RADS 4112 or permission of instructor. Supervised clinical practice in performing computed tomography procedures.</td>
</tr>
<tr>
<td>RADS 4173</td>
<td>MAMMOGRAPHY CLINICAL EDUCATION</td>
<td>0-20-3</td>
<td>Prerequisite or corequisite: RADS 4113 or permission of instructor. Supervised clinical practice in performing mammography procedures.</td>
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</table>
RADS 4174 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION 0-20-3
Prerequisite or corequisite: RADS 4114 or permission of instructor.
Supervised clinical practice in performing cardiovascular interventional procedures.

RADS 4175 ADVANCED CLINICAL EDUCATION 0-V-(1-6)
Prerequisite: permission of instructor or department head
A clinical experience in the advanced area of magnetic resonance imaging, computerized tomography, mammography, or cardiovascular interventional radiology.

RADS 4176 SPECIALIZED CLINICAL EDUCATION 0-V-(1-6)
Prerequisite or Corequisite: RADS 4175 or permission of instructor.
Supervised clinical practice in performing specialized imaging procedures.

RADS 4201 RADIATION ONCOLOGY I 2-0-2
Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3190
An introduction to carcinogenesis and treatment of neoplasia. Emphasis is placed upon basic neoplastic processes.

RADS 4202 RADIATION ONCOLOGY II 2-0-2
Prerequisite: RADS 4201
A study of neoplastic disease and treatment interventions related to the head and neck, lymphoreticular, skeletal, integumentary, endocrine and central nervous systems.

RADS 4240 RADIATION THERAPY PHYSICS 2-0-2
Prerequisite: permission of instructor or department and RADS 3090
A detailed analysis of radiation production, nuclear transformations, and interactions with matter. Discussions regarding radiation detectors, instrumentation, and radiation safety are included.

RADS 4260 TREATMENT PLANNING 4-2-4
Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 4240
A study of principles used to plan and deliver radiation treatments. Discussions regarding dose absorption, dose and isodose distributions with the corresponding biologic effects, contouring, beam filtration, planning protocols, brachytherapy, and emerging technologies are included.

RADS 4280 QUALITY MANAGEMENT IN RADIATION THERAPY 1-0-1
Prerequisite: permission of instructor or department, RADS 4240
An examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, records, and billing management are discussed.

RADS 4303 RADIATION THERAPY CLINICAL EDUCATION III 0-16-3
Prerequisite: permission of instructor or department and RADS 3302
Supervised clinical experience in the application and delivery of radiation therapy.

RADS 4304 RADIATION THERAPY CLINICAL EDUCATION IV 0-16-3
Prerequisite: permission of instructor or department and RADS 4303
Supervised clinical experience in the application and delivery of radiation therapy.

RADS 4305 RADIATION THERAPY CLINICAL EDUCATION V 0-16-4
Prerequisite: permission of instructor or department and RADS 4304
Capstone clinical education course in the application and delivery of radiation therapy.

RADS 4307 RADIATION THERAPY SYNTHESIS 0-3-1
Prerequisite: RADS 4280 AND RADS 4260
Prerequisite or corequisite: RADS 4304 and RADS 4305
Discussion of theoretical concepts of radiation therapy as they relate to practice.

RADS 4308 RADIATION THERAPY SEMINAR 0-3-1
Prerequisite or corequisite RADS 4305 and RADS 4307
Discussion of theoretical concepts of radiation therapy.
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<th>Course Code</th>
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<tr>
<td>RADS 4410</td>
<td>CROSS-SECTIONAL ANATOMY</td>
<td>3-0-3</td>
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<td>Prerequisite: permission of instructor or department</td>
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<td></td>
<td>Open only to majors in radiologic sciences. Three-dimensional anatomical relationships of cross-sectional anatomy slices and images produced by imaging modalities in the radiologic sciences. Emphasis on computed tomography and magnetic resonance imaging.</td>
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<td>RADS 4415</td>
<td>RADIOGRAPHY SYNTHESIS SEMINAR</td>
<td>0-3-1</td>
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<td>Prerequisite: RADS 3060, RADS 3073, RADS 3150, and RADS 4090</td>
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<td>Prerequisite or corequisite: RADS 4163</td>
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<td></td>
<td>Discussion of theoretical concepts of radiography as they relate to practice.</td>
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<td>RADS 4420</td>
<td>SENIOR RADIOGRAPHY SEMINAR</td>
<td>0-3-1</td>
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<td>Prerequisite: RADS 4163 and RADS 4050</td>
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<td></td>
<td>Prerequisite or corequisite: RADS 4164</td>
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<td></td>
<td>Discussion of theoretical concepts of radiography.</td>
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<td>RADS 4430</td>
<td>PROFESSIONAL PRACTICE SEMINAR</td>
<td>3-0-3</td>
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<td>Prerequisite: permission of instructor or department.</td>
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<td>Open only to majors in radiologic sciences. Examination of major trends and issues affecting present day radiation and imaging sciences.</td>
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<tr>
<td>RADS 4440H</td>
<td>THESIS IN RADIOLOGIC SCIENCES</td>
<td>0-3-3</td>
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<td>Prerequisite: admission to honors program</td>
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<td>Open only to majors in radiologic sciences. A research project under the supervision of a radiologic sciences faculty committee. The project must include a thesis and oral presentation. This course will substitute for RADS 4430.</td>
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<tr>
<td>RADS 4450</td>
<td>RADIOLOGIC SCIENCES MANAGEMENT</td>
<td>3-0-3</td>
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<td>Prerequisite: permission of instructor or department.</td>
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<td>Management, leadership, health care financing, and total quality concepts specific to radiologic sciences.</td>
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<td>RADS 4451</td>
<td>MANAGEMENT PRACTICUM</td>
<td>V-V-3</td>
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<td>Prerequisite: RADS 4450 or permission of instructor.</td>
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<td>Practical off-campus experience in the area of healthcare management.</td>
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<tr>
<td>RADS 4512</td>
<td>CT IN THE PRACTICE OF NUCLEAR MEDICINE</td>
<td>3-15-4</td>
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<td></td>
<td>Prerequisite: RADS 3112</td>
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<td>Corequisite: RADS 4533</td>
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<tr>
<td></td>
<td>Instrumentation, operation, and clinical uses of computed tomography as it relates to the practice of nuclear medicine.</td>
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<tr>
<td>RADS 4533</td>
<td>NUCLEAR MEDICINE CLINICAL EDUCATION III</td>
<td>0-18-4</td>
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<tr>
<td></td>
<td>Prerequisite: RADS 3532</td>
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<td></td>
<td>Supervised clinical practice in performing nuclear medicine procedures.</td>
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<td>RADS 4534</td>
<td>NUCLEAR MEDICINE CLINICAL EDUCATION IV</td>
<td>0-8-2</td>
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<td></td>
<td>Prerequisite: RADS 4533</td>
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<td>Corequisite: RADS 4535</td>
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<td>Supervised clinical practice in performing nuclear medicine procedures.</td>
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<tr>
<td>RADS 4535</td>
<td>NUCLEAR MEDICINE CLINICAL EDUCATION V</td>
<td>0-8-2</td>
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<tr>
<td></td>
<td>Prerequisite or corequisite: RADS 4534</td>
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<td>Supervised clinical practice in performing nuclear medicine procedures.</td>
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<tr>
<td>RADS 4540</td>
<td>NUCLEAR MEDICINE PHYSICS</td>
<td>3-1-3</td>
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<td></td>
<td>Prerequisite: RADS 3090, RADS 3503 and RADS 3499</td>
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<td>Topics include decay modes, half-life, radiation interactions, radiation measurement and instrumentation.</td>
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RADS 4561 NUCLEAR MEDICINE SYNTHESIS 0-3-1
Prerequisite: RADS 3503, RADS 3150 and RADS 4540
A discussion of theoretical concepts of Nuclear Medicine.

RADS 4562 NUCLEAR MEDICINE SEMINAR 0-3-1
Prerequisite: RADS 4570
Prerequisite or corequisite: RADS 4535 and RADS 4561
A discussion of advanced theoretical concepts of Nuclear Medicine.

RADS 4570 INTRODUCTION TO PET 3-1-3
Prerequisite: RADS 4540
Prerequisite or corequisite: RADS 3532
The principles of positron emission tomography.

RADS 4571- NUCLEAR MEDICINE PRACTICUM I 0-V-1
Pre Requisite: RADS 3520
Co Requisites: RADS 3503, RADS 4540
Clinical practice in routine nuclear medicine procedures.

RADS 4572- NUCLEAR MEDICINE PRACTICUM II 0-V-1
Pre Requisite: RADS 4571
Continuation of practice in routine nuclear medicine procedures.

RADS 4573- ADVANCES IN NUCLEAR MEDICINE 3-20-4
Pre Requisite: RADS 4572
Explores the role of positron emission tomography and other advances in nuclear medicine. Students are required to perform a practicum in these areas.

RADS 4574 NUCLEAR MEDICINE INQUIRY 3-20-4
Pre Requisite: RADS 4573
Synthesis of information and skills in nuclear medicine technology. This is a required practicum for students in nuclear medicine.

RADS 4633 SONOGRAPHY CLINICAL EDUCATION III 0-19-3
Prerequisite: RADS 3632 and 3603
Supervised clinical practice in performing Sonographic procedures.

RADS 4634 SONOGRAPHY CLINICAL EDUCATION IV 0-16-3
Prerequisite: RADS 4633
Supervised clinical practice in performing Sonographic procedures.

RADS 4635 SONOGRAPHY CLINICAL EDUCATION V 0-12-3
Prerequisite: RADS 4634
Supervised clinical practice in performing Sonographic procedures.

RADS 4661 SONOGRAPHY SYNTHESIS 0-3-1
Prerequisite: RADS 3603, 3652, and 4633
Corequisite: RADS 4634
A discussion of theoretical concepts of Sonography.

RADS 4662 SONOGRAPHY SEMINAR 0-3-1
Prerequisite: RADS 4661 and 4634
Corequisite: RADS 4635
A discussion of theoretical concepts of Sonography.

RADS 4671 INTRODUCTION TO VASCULAR SONOGRAPHY 2-2-2
Prerequisite: RADS 4114 and 4634
Corequisite: RADS 4635
Introduction to principles of vascular sonography.
RADS 4750 PATIENT ASSESSMENT AND MONITORING 2-2-2
Prerequisite: RADS 3750, 3772
Management of the cardiovascular/interventional patient, pre, intra, and post procedure.

RADS 4751 EMERGENCY CARE 2-2-2
Prerequisite: RADS 4750, 4763
Common cardiovascular emergencies and the optimal use of adjunctive pharmacology in addition to other therapies.

RADS 4752 PHYSIOLOGIC MONITORING AND RECORDING 3-0-3
Prerequisite: RADS 4751, 4763
An overview of electrical and mechanical cardiac function.

RADS 4763 CARDIOVASCULAR CLINICAL EDUCATION III 0-24-3
Prerequisite: RADS 3750, 3762.
Prerequisite or corequisite: RADS 4750
Supervised clinical experience in cardiovascular/interventional procedures.

RADS 4764 CARDIOVASCULAR CLINICAL EDUCATION IV 0-20-4
Prerequisite: RADS 4751
Prerequisite or corequisite: RADS 4763
Supervised clinical experience in cardiovascular/interventional procedures.

RADS 4765 CARDIOVASCULAR CLINICAL EDUCATION V 0-20-4
Prerequisite: RADS 4764.
Prerequisite or corequisite: RADS 4752
Supervised clinical experience in cardiovascular/interventional procedures.

RADS 4771 CARDIOVASCULAR SYNTHESIS 0-3-1
Prerequisite: RADS 4764
Prerequisite or corequisite: RADS 4765
Discussion of theoretical concepts in cardiovascular interventional technology as they relate to practice.

RADS 4772 CARDIOVASCULAR SEMINAR 0-3-1
Prerequisite: RADS 4771
Prerequisite or corequisite: RADS 4765
Discussion of advanced theoretical concepts in cardiovascular interventional technology as they relate to practice.

RADS 4773 FLUOROSCOPIC PROCEDURES IN THE PRACTICE OF CVIS 1-16-6
Prerequisite: RADS 3090, RADS 3762.
Synthesis of knowledge and skills utilizing fluoroscopy in the practice of cardiovascular imaging.

RADS 4800 RESEARCH METHODOLOGIES IN RADIOLeGIC SCIENCES 2-0-2
Prerequisite: MATH 2200 and HLPR 2000. Open only to majors
Application of quantitative and qualitative approaches to research issues specific to the Radiologic Sciences. Topics covered include development of research questions, study design, methodology, data collection and analysis.

RDSC – Radiologic Sciences (Interprofessional)
RDSC 3001 RADIOLoGIC SCIENCES I 5-0-5
Prerequisite: Open only to majors in radiologic sciences.
An introduction to professional organizations, specialties, accreditation, certification, licensure, professional development, ethics, and legal issues. Mechanics, electromagnetic physics, nuclear physics, and x-ray production as they relate to the medical setting. Includes introduction to digital imaging processes, fluoroscopy, radiologic physics and nuclear decay.
RDSC 3002 RADIOLOGIC SCIENCES II  
Prerequisite: RDSC 3001  
Biological, chemical, and physical effects of radiation and radiation measurement and safety. A survey of human pathology including cancer, vascular diseases, trauma, anomalies and other disease processes as demonstrated by radiologic imaging. Includes 2D and 3D cross sectional images of Ultrasound, CT, MRI, Nuclear Medicine and Radiography.

RDSC 3060 PRINCIPLES OF IMAGE FORMATION AND EVALUATION  
Open only to majors in radiologic sciences. Factors controlling radiographic image production and image quality. Topics include geometric and photographic properties, image quality evaluation, and image display.

RDSC 4100 ADVANCED IMAGING MODALITIES  
Prerequisite: RADR 4101 or CVIS 4101 or NUCM 4101 or RTHR 4101 or SONO 4101  
Corequisite: RADR 4102 or CVIS 4102 or NUCM 4102 or RTHR 4102 or SONO 4102  
Instrumentation, operation, and clinical uses of MRI or CT or Mammography

READ – Reading
READ 0099 STRATEGIES FOR COLLEGE READING  
Prerequisite: placement according to CPE score  
Reinforcement of basic college reading strategies. Emphasis on comprehension, critical thinking, vocabulary, main ideas, supportive details, organizational and rhetorical patterns, transitions, tone, purpose, fact and opinion, and inferences.

RELI – Religion
RELI 2100 – WORLD RELIGIONS  
Prerequisite: eligibility for ENGL 1101  
Survey of the major religious traditions of the world.

RELI 4000 – SPECIAL TOPICS IN RELIGIOUS STUDIES  
Prerequisite: RELI 2100  
Subjects are announced when offered. Includes religious studies abroad field experience and research as arranged and approved by program coordinator. May be repeated for additional credit when topics change.

RESP – Respiratory Therapy
RESP 2110 MEDICAL TERMINOLOGY  
Prerequisite: ENGL 1101  
The language of medicine and health care: word construction, definitions, spelling, abbreviations, symbols and information technology systems. Development of ability to comprehend and discuss medical records and professional journals. Development of effective written and oral communication skills.

RESP 3110 PATIENT ASSESSMENT  
Prerequisite: Admission to Respiratory Therapy program or Permission of Department Head.  
Open only to majors in respiratory therapy-BS. A problem solving approach to evaluation and treatment of patients with cardiopulmonary disease. History-taking, physical examination, radiographs, ECG, lab tests, spirometry, and blood gas analysis.

RESP 3120 RESPIRATORY CARE EQUIPMENT  
Corequisite: RESP 3110 or Permission of Department Head.  
Open only to majors in respiratory therapy-BS. Theory of operation, application, and evaluation of equipment used in respiratory care. Lab emphasis on selection, trouble shooting, quality control, and asepsis.

RESP 3151C CLINICAL PRACTICUM I  
Corequisite: RESP 3110 or Permission of Department Head.  
Open only to majors in respiratory therapy-BS. Preclinical skills development, orientation to the hospital environment, and introduction to electronic information systems.
RESP 3210 CLINICAL PHARMACOLOGY  3-0-3  
Prerequisite: Permission of Department Head  
Principles of pharmacology including pharmacokinetics, dynamics, drug interactions, and toxicology emphasizing  
drug groups used in treatment of cardiopulmonary disease.

RESP 3220 RESPIRATORY CARE FUNDAMENTALS  2-2-3  
Prerequisite: RESP 3110 or Permission of Department Head.  
Development and implementation of the care plan; evaluation of patient response to therapy with laboratory  
experience and extensive use of therapeutic protocols and decision making algorithms.

RESP 3230 DIAGNOSTIC PROCEDURES  3-0-3  
Prerequisite: RESP 3110 or Permission of Department Head.  
A problem solving approach to evaluation and diagnosis of cardiopulmonary disease with emphasis on procedural  
protocols, analysis of results, and application to the care plan.

RESP 3252C CLINICAL PRACTICUM II  0-18-3  
Prerequisite: RESP 3110 or Permission of Department Head.  
Application of therapeutic protocols, assessment of patient response to therapy, and modifications of the care  
plan based on patient response outside of the critical care environment.

RESP 3315 PRINCIPLES OF MECHANICAL VENTILATION  2-3-3  
Prerequisite: RESP 3210 or Permission of Department Head.  
Student focus on the operating principles of ventilators used in critical care. Laboratory experience in pneumatic  
and electronic circuits, setting the control panel, phasing the respiratory cycle, ventilator modes, alarms and  
troubleshooting will be emphasized.

RESP 3325 MANAGING THE VENTILATOR PATIENT  2-0-2  
Prerequisite: RESP 3110 or Permission of Department Head.  
Introduces students to indications for vent support, initializing and monitoring the ventilator-dependent patient,  
recognizing acute respiratory distress and managing adverse response.

RESP 3353C CLINICAL PRACTICUM III  0-18-3  
Prerequisite: RESP 3110 or Permission of Department Head.  
Care of the ventilator-dependent patient in the critical care environment. Patient assessment, airway care,  
trend monitoring, calibration, and set up of life support systems. CAI used to develop critical thinking skills.

RESP 3400 CARDIOPULMONARY ANATOMY AND PHYSIOLOGY  3-0-3  
Prerequisite: Permission of Department Head.  
Emphasis on cardiopulmonary disease resulting from the most commonly seen illnesses in the region,  
microbiologically mediated disease (including agents, etiology, and issues related to bioterror), trauma, and  
lifestyle issues such as both indoor and outdoor air quality, sleep disordered breathing, and obesity.

RESP 3700 INTRODUCTION TO ADVANCED PRACTICE IN RESPIRATORY CARE  3-0-3  
Prerequisite: Permission of Department Head.  
This transitional course is designed to allow students who are entering the program to learn the essentials of  
scholarly inquiry as they conduct basic research in respiratory therapy.

RESP 4110 ADVANCED VENTILATORY SUPPORT  2-3-3  
Prerequisite: RESP 3400 or Permission of Department Head.  
Case-oriented approach to management of the ventilator dependant patient. Laboratory experience in patient  
assessment and modification of the care plan based on patient response.

RESP 4120 CARDIOPULMONARY CRITICAL CARE  3-0-3  
Prerequisite: RESP 3400 or Permission of Department Head.  
Hemodynamic monitoring, fluid/electrolyte management, cardiovascular pharmacology, and ACLS protocols.

RESP 4130 PERINATAL CARE  3-3-4  
Prerequisite: RESP 3400 or Permission of Department Head.  
Care of the pediatric and neonatal patient in the critical care environment. Laboratory experience in patient  
assessment, initiation and modification of the care plan based on patient response.
RESP 4140 CARDIOPULMONARY MEDICINE 3-0-3
Prerequisite: Permission of Department Head.
A problem-solving approach to the pathophysiology and medical management of cardiopulmonary problems encountered in the hospital setting.

RESP 4154C CLINICAL PRACTICUM IV 0-18-3
Prerequisite: RESP 3400 or Permission of Department Head.
Advanced monitoring of the CP and CV system in the adult ICU environment. Home/subacute care rotation will emphasize care of the chronically ill patient. Introduction to the role of the RCP in pediatric/neonatal ICU.

RESP 4215 PROFESSIONAL ISSUES IN RESPIRATORY CARE 3-0-3
Prerequisite: RESP 3400 or Permission of Department Head.
A senior capstone course with emphasis on the economics of health care, fundamental principles of management and leadership, applied research and legal issues.

RESP 4265C CLINICAL INTERNSHIP 0-36-12
Prerequisite: RESP 3400 or Permission of Department Head.
A preceptor-based clinical capstone course designed to facilitate independent practice of respiratory care and transition into the workforce. Students must pass a comprehensive, summative clinical evaluation and earn the CRT credential to earn a passing grade. Evenings, nights, and weekend scheduling will be required. Application and interview required.

RESP 4700 PRECEPTORSHIP IN CARDIOPULMONARY CARE 6-0-6
Prerequisite: RESP 3400 or Permission of Department Head.
The curriculum provides professional preceptor training program for degree completion candidates. The course is designed to encourage preceptor practice and encourage graduates to serve as mentors and clinical preceptors at their home facility. Specialized training as preceptor for asthma education or sleep disorders specialty credential is encouraged.

RHAB – Rehabilitation Science
RHAB 1000 INTRODUCTION TO REHABILITATION SCIENCES 1-0-1
Description of the different rehabilitative professions and exploration of the rehabilitation sciences major.

RHAB 4000 APPLICATION OF RESEARCH TO THE REHABILITATION PROFESSIONS 3-0-3
Prerequisite: MATH 2200 and HLPR 2000 or permission of instructor
Application of quantitative and qualitative approaches to research issues specific to the rehabilitative professions.

RHAB 4100 NEUROSCIENCE FOR THE REHABILITATION PROFESSIONS 3-0-3
Prerequisite: BIOL 2081
Basic neuroanatomy, neurophysiology and neuropharmacology in the context of rehabilitation.

RHAB 4111 PATHOPHYSIOLOGY FOR THE REHABILITATION PROFESSIONS I 3-0-3
Prerequisite: BIOL 2081 or permission of instructor
Introduction to general pathophysiological processes including inflammation and immunity and the pathophysiology of the musculoskeletal, neuromuscular and integumentary systems. Will include description of conditions, medical interventions and application to rehabilitation.

RHAB 4112 PATHOPHYSIOLOGY FOR THE REHABILITATION PROFESSIONS II 3-0-3
Prerequisite: BIOL 2082 or permission of instructor
Introduction to pathophysiology of the cardiovascular, pulmonary, renal and endocrine systems. Will include description of conditions, medical interventions and application to rehabilitation.

RHAB 4900 TOPICS IN REHABILITATION SCIENCES 3-0-3
Prerequisite: Permission of Instructor
This course is designed for upper-level Rehabilitation Science majors and upper-level Neuroscience minors. Specific interdisciplinary neuroscience topics will be included.
RHAB 4901 DIRECTED STUDY IN REHABILITATION SCIENCE 1-0-1
Prerequisite: Permission of Department Head
Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4902 DIRECTED STUDY IN REHABILITATION SCIENCE 2-0-2
Prerequisite: Permission of Department Head
Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4903 DIRECTED STUDY IN REHABILITATION SCIENCE 3-0-3
Prerequisite: Permission of Department Head
Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4904 DIRECTED STUDY IN REHABILITATION SCIENCE 4-0-4
Prerequisite: Permission of Department Head
Individualized instruction in an area of interest in Rehabilitation Science.

RTHR – Radiation Therapy

RTHR 3001 RADIATION THERAPY I 6-0-6
Prerequisite: Open to majors in Radiologic Sciences, Radiation Therapy Track
Corequisite: RDSC 3001
An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery associated with the study of neoplastic disease and treatment interventions.

RTHR 3002 RADIATION THERAPY II 5-3-6
Prerequisite: RTHR 3001
Corequisite: RDSC 3002
Radiation production, nuclear transformations, and interactions with matter including radiation detectors, instrumentation, and radiation safety. Includes radiation therapy equipment operation and utilization for simulation and treatment along with an examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, and importance of documentation are highlighted.

RTHR 3003 RADIATION THERAPY III 3-1-3
Prerequisite: RTHR 3002
A study of the principles used to plan and deliver radiation treatments. Dose absorption, dose and isodose distributions, contouring, hand calculations, brachytherapy and emerging technologies are included.

RTHR 3100 INTRODUCTION TO RADIATION THERAPY CLINICAL EDUCATION 1-V-1
Prerequisite: RTHR 3001
Corequisite: RTHR 3002
Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

RTHR 4101 RADIATION THERAPY CLINICAL EDUCATION I 0-V-5
Prerequisite: RTHR 3100, DDT5 3001
A supervised clinical experience in the application and delivery of radiation therapy.

RTHR 4102 RADIATION THERAPY CLINICAL EDUCATION II 0-V-6
Prerequisite: RTHR 4101
Supervised clinical experience in the application and delivery of radiation therapy.

RTHR 4103 RADIATION THERAPY CLINICAL EDUCATION III 0-V-9
Prerequisite: RTHR 4102
Capstone clinical education course in the application and delivery of radiation therapy.

RTHR 4200 RADIATION THERAPY SYNTHESIS 3-0-3
Prerequisite: RTHR 3003 & RTHR 4102
Discussion of theoretical concepts of radiation therapy as they relate to practice.
SABR – Study Abroad
SABR 2960 STUDY ABROAD V-V-(1-15)
Offered as a part of a study abroad program. Instruction related to countries visited and the academic discipline of the instructor.

SCIE – Science
SCIE 1000 INTRODUCTION TO SCIENTIFIC INQUIRY 3-0-3
Examination of the methods of science. Traces the evolution of scientific thought from the perspectives of physics, chemistry and biology. Focuses on major concepts in the natural sciences through a quantitative approach.

SCIE 1212 CHEMICAL ENVIRONMENT 3-0-3
Prerequisite: eligibility for MATH 1001 or MATH 1111
Fundamental concepts, laws, and theories of chemistry applied to the environment. For non-science majors interested in a quantitative survey of environmental issues.

SCIE 1212L CHEMICAL ENVIRONMENT LAB 0-2-1
Corequisite: SCIE 1212
Laboratory investigations of environmental chemistry.

SCED – Secondary Education
SCED 3081 STUDENT AND CLASSROOM ASSESSMENT 2-0-2
Prerequisite: Admission into candidacy in the College of Education and EDUC 3200
Co-requisite: SCED 3750
An examination of roles, tools, and approaches of assessment including planning and implementing standards based assessment, measuring and evaluating instructional impact on student learning, and interpreting and communicating national and state standardized test data involving grades 6-12.

SCED 3400 CLASSROOM MANAGEMENT STRATEGIES 3-V-3
Prerequisite: Admission into Candidacy in the College of Education.
An overview of classroom management theory and best practices as related to the characteristics of learners and effective pedagogy for students in grades 6-12. A field experience required.

SCED 3750 INTERNSHIP I 0-V-3
Prerequisite: Admission into candidacy in the College of Education and EDUC 3200
Active classroom participation and co-teaching in a supervised 6-12 school setting. This course will be completed during the semester immediately prior to SCED 4750, Internship II.

SCED 4200 READING AND WRITING IN THE CONTENT AREAS 3-V-3
Prerequisite: Admission into candidacy in the College of Education and EDUC 3200.
Teaching and evaluation of literacy through reading and writing in the content areas for grades 6-12 student learning. Directed field experience required.

SCED 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission into candidacy in the College of Education, completion of all other required coursework and successful completion of appropriate GACE II exams.
Full-time teaching experience using pedagogical knowledge and skills in a supervised 6-12 school setting.

SCED 5300U CONTENT METHODS IN SECONDARY ENGLISH AND LANGUAGE ARTS 3-V-3
Prerequisite: EDUC 3200
Methods, content, and materials focusing on literature and the communicative arts for grades 6-12 student learning. Directed field experience required

SCED 5400U CONTENT METHODS IN SECONDARY HISTORY AND SOCIAL STUDIES 3-V-3
Prerequisite: EDUC 3200
Methods, content, and materials focusing on the teaching of the social studies for grades 6-12 student learning. Directed field experience required.
SCED 5500U CONTENT METHODS IN SECONDARY SCIENCE 3-V-3
Prerequisite: EDUC 3200
Methods, content, and materials focusing on the teaching of science for grades 6-12 student learning. Directed field experience required.

SCED 5600U CONTENT METHODS IN SECONDARY MATHEMATICS 3-V-3
Prerequisite: EDUC 3200
Topics in the teaching of mathematics for grades 6-12 student learning. Focus on how to teach mathematics, development of problem solving skills, and critical thinking in mathematics. Directed field experience is required.

SMED – Sports Medicine

SMED 5015U ASSESSMENT AND EVALUATION OF MUSCULOSKELETAL INJURIES 3-0-3
Prerequisite: HSCF 3005 or permission of instructor
Fundamental skills of athletic training assessment and evaluation including basic examination, acute care, and documentation for patients with athletically related injuries or illnesses. Emphasis is placed on musculoskeletal disorders. Case studies will link the material presented in this course with other courses taught concurrently.

SMED 5050U PHARMACOLOGY OF SPORTS MEDICINE INJURY AND ILLNESS 2-0-2
Prerequisite: a B or better in BIOL 2081 and 2082 or course equivalents.
Basic understanding of pharmacology and the drugs commonly used in physical medicine and exercise.

SMED 5055U PATHOPHYSIOLOGY OF SPORTS MEDICINE INJURY AND ILLNESS 3-0-3
Prerequisite: a B or better in BIOL 2081 and 2082 or course equivalents.
Examines mechanisms responsible for disease processes and subsequent care of illness associated with the participation in physical activity.

SMED 5065U MOVEMENT AND POSTURE ASSESSMENT AND EXERCISE 3-0-3
Prerequisite: HSCF 3005; HP/FM majors only or permission of instructor
Techniques to identify impaired movement patterns and altered tissue adaptations. Corrective exercise strategies, including inhibitory, stretching and activation techniques and program design will be emphasized.

SMED 5090U NUTRITIONAL ISSUES IN SPORTS MEDICINE 3-0-3
Impact of various nutritional regimens on performance and recovery in athletics.

SMED 5555U PHYSICAL ACTIVITY IN DISEASE PREVENTION/TREATMENT 3-0-3
Prerequisite: HSCC 3100
Effects of physical activity on health enhancement and maintenance. Bioenergetics, physical assessment methods, equipment, and exercise prescription.

SMED 5600U HEALTHY WEIGHT MGMT & BODY COMP 3-0-3
A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass.

SMED 5940U INTERNSHIP IN STRENGTH AND CONDITIONING V-V-(1-3)
Prerequisite: Permission of Instructor
Supervised instruction in strength and conditioning techniques.

SMED 5945U INTERNSHIP IN SPORTS MEDICINE I V-V-(1-3)
Prerequisite: permission of instructor
On-site clinical experiences closely supervised by university faculty and facility instructors in the wellness/health promotion, adult fitness or cardiac rehabilitation settings. Weekly seminars will address current clinical issues in the selected population. May be taken for repeat credit.

SOCI – Sociology
COURSE DESCRIPTIONS

SOCI 1101 INTRODUCTORY SOCIOLOGY 3-0-3
Prerequisite: eligibility for ENGL1101
Introduction to the concepts and methods of the science of human group behavior including the study of socialization, culture, race, ethnicity, gender, age, and social institutions.

SOCI 2000 GLOBAL SOCIOLOGY 3-0-3
Exploring the global world through a sociological lens. Topics include: globalization, global inequalities, international conflict, social institutions, and world-wide environmental crises.

SOCI 2500 ETHICS, VALUES, AND THE SOCIAL WORLD 3-0-3
Critically examines theoretical and practical ethical issues and controversies in our social world. Includes the social construction of ethics, social justice, and ethical dilemmas in sociological research.

SOCI 3130 HATE CRIMES AND ORDERED LIBERTY 3-0-3
Prerequisite: HIST 1100 or POLS 1100 or CRJU 1100
Racial, ethnic, cultural, and religious strife and the tension between freedom and equality in democratic societies. Focus on the governmental definition of hate crimes and the historical, economic, and political roots of such crimes. Crosslisted as CRJU 3130.

SOCI 3150 SOCIOLOGY OF THE FAMILY 3-0-3
Prerequisite: SOCI 1101
Institutions having major responsibility for socializing members of society including various forms and types of families.

SOCI 3180 DEVIANCE AND SOCIAL CONTROL 3-0-3
Prerequisite: CRJU 1100 or SOCI 1101
Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological theories of deviance. Deviance and social control are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed with CRJU 3180.

SOCI 3200 RACIAL AND ETHNIC MINORITIES 3-0-3
Prerequisite: SOCI 1101
Historical and/or contemporary realities of various racial and ethnic minority groups in the U.S., including African-Americans, Latinos, Native Americans, and Asian-Americans.

SOCI 3250 SOCIOLOGY OF EDUCATION 3-0-3
Prerequisite: SOCI 1100
Examination of the organization and role of educational institutions in contemporary society, including contributions to both social mobility and the preservation of the prevailing social order.

SOCI 3300 SOCIAL STRATIFICATION 3-0-3
Prerequisite: SOCI 1101 or POLS 1150
Examines the social structure and various forms of social inequality. Examples include class, race, ethnicity, and gender in contemporary society.

SOCI 3330 EXPLORING POPULAR CULTURE 3-0-3
Prerequisite: SOCI 1101
Examination of popular culture using mass media, technology, and language to explore a given era. Comparisons of lifestyles, gender roles, attitudes towards various groups, and the national and regional mood of the times.

SOCI 3360 SOCIAL THEORY 3-0-3
Prerequisite: SOCI 1101 or POLS 2100
Introduction to sociological theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered. Cross-listed with POLS 3360.
SOCI 3400 METHODS OF SOCIAL RESEARCH 3-0-3
Prerequisite: SOCI 1101 and a grade of C or better in MATH 2200
Methods of applied social research including case studies, record research, experimental designs, surveys, observation, and systems interactions in relation to social data.

SOCI 3490 COMPARATIVE SOCIETIES, POLITICS AND INSTITUTIONS 3-0-3
Prerequisite: SOCI 1101 or POLS 1150
On-site examination of society and social institutions of other countries. Course intended for study abroad programs only.

SOCI 3500 SOCIAL PROBLEMS 3-0-3
Prerequisite: SOCI 1101
Examination of contemporary social problems such as deviance, crime, inequality, ageism, sexism, and institutional crisis in the context of sociological theory.

SOCI 3510 GENDER, VIOLENCE AND SOCIETY 3-0-3
Prerequisite: SOCI 1101 or GWST 1101
An overview of gender-based violence domestically and internationally. Students will analyze the political and cultural structures that perpetuate gendered violence, and explore how gendered violence intersects with race, class, and sexuality. Crosslisted with GWST 3510.

SOCI 3600 MEDIA AND SOCIETY 3-0-3
Prerequisite: SOCI 1101 or POLS 1150
Study of media’s impact on society and the social construction of reality.

SOCI 3700 SOCIOLOGY OF TOURISM 3-0-3
Prerequisite: ENGL 1101
Sociological examination of tourism and the tourism industry. Emphasis on the social construction of cultural significance and meaning, from historical sites and monuments to theme parks and vacation destinations, from the collective and social memory to the impact of tourism on development, and culture.

SOCI 3800 SOCIOLOGY OF SEXUALITY 3-0-3
Prerequisite: SOCI 1101 or POLS 1150 or GWST 1101
Examines the social construction of sexuality, including social influences upon sexual scripts and normative ideas regarding sexuality.

SOCI 4010, -20, -30 SPECIAL TOPICS IN SOCIOLOGY 3-0-3
Prerequisite: SOCI 1101
Upper-level courses not otherwise offered in the sociology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor.

SOCI 4220 POLITICS OF ECONOMIC INEQUALITY 3-0-3
Prerequisite: POLS 2100 or SOCI 1101 or POLS 2200
Explores the relationship between economic inequality and political voice, institutional governance, and public policy. It considers the causes of economic inequality, historical struggles in political development, and the socio-economic context of economic inequality all within a theoretical framework of equality and inequality. Cross-listed with POLS 4220.

SOCI 4300 ALCOHOL AND DRUG STUDIES 3-0-3
Prerequisite: SOCI 1101
Examination of the various forms of alcohol and drug abuse with emphasis on the stages of harmful dependence and addiction, including legal and social implications along with treatment and rehabilitation.

SOCI 4500 INDEPENDENT STUDY 3-0-3
Prerequisite: SOCI 1101
By invitation of the professor. Open to transient students only by permission of the dean of Arts and Sciences at Armstrong and the student’s home institution.
SOCI 4800 SERVICE LEARNING AND CIVIC ENGAGEMENT  3-V-3
Prerequisite: SOCI 1101
An experiential learning course that connects sociological concepts and theories to community service. Includes field experiences.

SOCI 5130U POLITICAL TERRORISM  3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counter-terrorism in a democracy. Cross-listed with CRJU 5130U and POLS 5130U.

SOCI 5450U POLITICAL SOCIOLOGY OF NATIONALISM  3-0-3
Prerequisite: POLS 2100 or SOCI 1101
Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

SOCI 5600U SOCIOLOGY OF GENDER  3-0-3
Prerequisite: SOCI 1101 or POLS 1150 or GWST 1101
Examines the social construction of gender and gender inequality in society. Cross-listed with GWST 5600U.

SONO – Sonography
SONO 3001 SONOGRAPHIC PRINCIPLES, THEORY, AND PHYSICS I  6-2-6
Prerequisite: Open only to majors in Radiologic Sciences, Sonography Track
This course is the introduction to sonography specialties, sonographic instrumentation, propagation principles and interactions, the theoretical concepts and scanning techniques of adult and pediatric abdominal, gynecological, and obstetrical content and exam procedures, and the standards and practices related to diagnostic medical sonography.

SONO 3002 SONOGRAPHIC PRINCIPLES, THEORY, AND PHYSICS II  4-3-5
Prerequisite: SONO 3001
Corequisite: RDSC 3002
This course is a continuation of Sonographic Principles, Theory, and Physics I. It includes advanced topics related to sonographic instrumentation, propagation principles and interactions. It also includes concepts and intermediate scanning techniques pertaining to invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology.

SONO 3003 SONOGRAPHIC PRINCIPLES, THEORY, AND PHYSICS III  4-6-6
Prerequisite: SONO 3002
This course is a continuation of Sonographic Principles, Theory, and Physics II to include advanced concepts related to scanning techniques, invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology and other sonography specialties.

SONO 3100 INTRODUCTION TO SONOGRAPHY CLINICAL EDUCATION  1-V-1
Prerequisite: SONO 3001
Corequisite: SONO 3002
Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

SONO 4101 SONOGRAPHY CLINICAL EDUCATION I  0-V-6
Prerequisite: SONO 3100, DDTS 3001
Supervised clinical practice in performing Sonographic procedures.

SONO 4102 SONOGRAPHY CLINICAL EDUCATION II  0-V-6
Prerequisite: SONO 4101
Supervised clinical practice in performing Sonographic procedures.
SONO 4103 SONOGRAPHY CLINICAL EDUCATION III 0-V-6
Prerequisite: SONO 4102
Supervised clinical practice in performing Sonographic procedures.

SONO 4200 SONOGRAPHY SYNTHESIS 3-5-3
Prerequisite: SONO 3003 & SONO 4102
A capstone course to include advanced concepts related to scanning techniques, invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology and other sonography specialties.

SPAN – Spanish

SPAN 1001 ELEMENTARY SPANISH I 3-0-3
Prerequisite: eligibility for ENGL 1101
Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

SPAN 1002 ELEMENTARY SPANISH II 3-0-3
Prerequisite: eligibility for ENGL 1101 and SPAN 1001 equivalency
Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

SPAN 2001 INTERMEDIATE SPANISH 3-0-3
Prerequisite: eligibility for ENGL 1101 and SPAN 1002
Emphasis on Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

SPAN 2002 INTERMEDIATE SPANISH II 3-0-3
Prerequisite: eligibility for ENGL 1101 and SPAN 2001
Continuation of SPAN 2001. Promotion of further awareness of Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

SPAN 2050 SPANISH FOR HEALTH CARE SYSTEMS 3-0-3
Prerequisite: SPAN 2001 and eligibility for ENGL 1101
Skills to communicate with Spanish-speaking patients in a wide variety of clinical situations.

SPAN 3031 SPANISH CONVERSATION AND COMPOSITION I 3-0-3
Prerequisite: SPAN 2002
Conversational Spanish to develop greater oral proficiency and awareness of Hispanic culture. Review of grammar and syntax through guided essays.

SPAN 3032 SPANISH CONVERSATION AND COMPOSITION II 3-0-3
Prerequisite: SPAN 2002
Continuation of Spanish 3031.

SPAN 3050 ADVANCED GRAMMAR AND SYNTAX 3-0-3
Prerequisite: SPAN 2002
Advanced grammar and syntax, exercises, essays, and translations.

SPAN 3060 ADVANCED GRAMMAR AND SYNTAX FOR NATIVE SPEAKERS 3-0-3
Prerequisite: eligibility for SPAN 2002 and permission of instructor or department
Grammar and syntax for native speakers.

SPAN 3111 CIVILIZATION AND CULTURE OF SPAIN 3-0-3
Prerequisite: SPAN 2002
Civilization and culture of Spain from the pre-Roman era to the present.

SPAN 3120 CIVILIZATION AND CULTURE OF LATIN AMERICA 3-0-3
Prerequisite: SPAN 2002
Civilization and culture from the pre-Columbian era to the present.
SPAN 3200 INTRODUCTION TO LITERATURE 3-0-3
Prerequisite: SPAN 2002
Analysis of Hispanic poetry, prose, and drama.

SPAN 3210 SURVEY OF SPANISH PENINSULAR LITERATURE I 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the jarchas to the Enlightenment, while including medieval and golden age literature.

SPAN 3220 SURVEY OF SPANISH PENINSULAR LITERATURE II 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the Enlightenment to the present. Focus on romanticism, the generation of 1898, the generation of 1927, and post-civil war literature.

SPAN 3230 SURVEY OF SPANISH AMERICAN LITERATURE I 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America through representative samples of indigenous works, Chronicles of the Indies, the baroque, romanticism, and modernism.

SPAN 3240 SURVEY OF SPANISH AMERICAN LITERATURE II 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America from the Mexican Revolution to the present.

SPAN 3510, -20 STUDY ABROAD 3-0-3
Prerequisite: SPAN 1002 or permission of the instructor
A term abroad of Spanish study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions.

SPAN 3750 INTERNSHIP I - PRE-STUDENT TEACHING 0-V-3
Prerequisite: Admission to the College of Education, EDUC 3100, EDUC 3200
Opportunity to observe and participate in classroom activities in a supervised P-12 public school setting.

SPAN 4000 TRANSLATION 3-0-3
Prerequisite: SPAN 3050 or 3060 or 3031 or 3032
Skills and techniques needed to work as a translator/interpreter with an introduction to the variety of careers available to translators.

SPAN 4010 SPECIAL GENRE 3-0-3
Prerequisite: SPAN 3200
Hispanic literature: subject announced when course offered. May be repeated for additional credit when topics change.

SPAN 4020 SPECIAL AUTHOR 3-0-3
Prerequisite: SPAN 3200
Hispanic literature: subject announced when course offered. May be repeated for additional credit when topics change.

SPAN 4030 SPECIAL TOPICS 3-0-3
Prerequisite: SPAN 3200
Hispanic literature: subject announced when course offered. Thematic studies such as the picaresque and the anti-hero. May be repeated for additional credit when topics change.

SPAN 4040 SPANISH PHONETICS 3-0-3
Prerequisite: eligibility for SPAN 2002
Spanish phonological system.

SPAN 4050 ADVANCED SPANISH FOR HEALTH CARE PROFESSIONALS 3-0-3
Prerequisite: SPAN 3050 or 3060 or 3031 or 3032
Skills and techniques needed to work as a translator/interpreter in the health care field, with an introduction to the variety of careers available to bilingual health care professionals.
SPAN 4060 CONTEMPORARY SPANISH AMERICAN NOVEL 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding the twentieth-century novel and its impact on world literature. Discussion of magical realism, marvelous realism, the testimonial novel, and the novel of the dictator.

SPAN 4070 CONTEMPORARY SPANISH PENINSULAR NOVEL 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding the novel and its impact on world literature. Discussion of realism, naturalism, the generation of 1898, and the effects of Franco’s dictatorship on contemporary literature.

SPAN 4080 SPANISH PENINSULAR THEATRE 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding the development of a national drama from the auto de fe, the golden age honor plays, Romanticism and don Juanismo, the esperpento, as well as works confronting Franco’s dictatorship.

SPAN 4090 SPANISH AMERICAN THEATRE 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding the development of drama ranging from imitative models that upheld authority through that of social protest and revolution to bring about change throughout Spanish America.

SPAN 4100 SPANISH PENINSULAR POETRY 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding Spanish poetry including the jarchas, the medieval epic, la cuaderna via, the golden age, the romancero, etc.

SPAN 4110 SPANISH AMERICAN POETRY 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches toward understanding Spanish American poetry including the baroque, neo-classical, romanticism, modernism, the avant-garde, and contemporary trends.

SPAN 4120 SPANISH FOR POLICE AND PROBATION OFFICERS 3-0-3
Prerequisite: SPAN 3050 or 3060 or 3031 or 3032
Language skills and techniques needed to work in law enforcement or as a probation officer, with an introduction to the variety of careers available to bilingual law enforcement professionals.

SPAN 4130 BUSINESS SPANISH 3-0-3
Prerequisite: Completion of SPAN 3050 or 3060 or 3031 or 3032
Language skills and techniques needed to work in business settings with an introduction to the variety of careers available to bilingual persons in business.

SPAN 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission to the College of Education; completion of all coursework
Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting.

SPAN 4900 INDEPENDENT STUDY 3-0-3
Prerequisite: permission of instructor or department and SPAN 2002
Open to transient students only with permission of the department head.

SPAN 4990 LANGUAGE INTERNSHIP V-V-(1-3)
Prerequisite: permission of instructor or department
Open to juniors or above. Individually designed project involving off-campus instruction at the school level (grades 1-6). Three preparation hours for each hour of classroom instruction. Supervision by sponsoring institution and Spanish faculty member and coordinated by intern, faculty member, and classroom teacher. Student must have earned a 2.75 minimum overall GPA, a 3.0 GPA in Spanish, and have departmental internship committee recommendation.
SPAN 5442U CONTENT AND METHODS SPANISH EDUCATION 3-2-3
Prerequisite: Admission to the College of Education.
Methods, contents, and materials focusing on the teaching of foreign languages for P-12. Directed field experience involved with opportunity for presentation of instructional models in the classroom.

SPED – Special Education

SPED 2001 THE FIELD OF SPECIAL EDUCATION: PAST AND FUTURE 3-0-3
The field through an historical overview of the issues, cultural and social influences, trends, state and federal legislation, as well as case law that formed and continues to shape the field of special education.

SPED 3002 ADAPTIVE PHYSICAL EDUCATION FOR STUDENTS WITH DISABILITIES 3-2-3
Instruction in methods for adapting physical education for and offering recreational therapy to students with disabilities ranging from mild to severe. Includes practicum.

SPED 3009 PHYSICAL AND HEALTH DISABILITIES 3-0-3
Prerequisite: CEUG 2100, and admission to Candidacy in the Department of Special and Adult Education.
A study of the impact of sensory impairments, physical, and health disabilities on the learning experience. Laws and policies related to the provision of specialized health care in education settings will be addressed.

SPED 3500 CHARACTERISTICS OF BEHAVIORAL DISORDERS 3-1-3
Characteristics of the types of emotional and behavior disorders encountered among children and youth are reviewed along with currently accepted theories and systems for their behavioral and educational management.

SPED 3510 METHODS FOR TEACHING STUDENTS WITH BEHAVIORAL DISORDERS 3-1-3
Prerequisite: SPED 3500
Individualized and group methods of teaching students with behavior disorders are analyzed. An ecological developmental approach to behavioral and educational needs is emphasized.

SPED 4000 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH INTELLECTUAL DISABILITIES 3-2-3
Prerequisite: admission to special education and SPED 2003 and SPED 3001
Instruction in curriculum development, technology enhanced methods of instruction, and research based teaching techniques designed for students with intellectual disabilities. Includes practicum.

SPED 4001 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH MULTIPLE/SEVERE DISABILITIES 3-2-3
Prerequisite: admission to special education and SPED 2003 and SPED 3001 and SPED 3006 and SPED 3007
In-depth instruction in research based and technology enhanced methods for teaching students with multiple and/or severe disabilities.

SPED 4004 CURRICULUM AND INSTRUCTIONAL STRATEGIES IN THE CONTENT AREAS 3-0-3
Prerequisite: Admission to candidacy in the College of Education, SPED 3001, and SPED 3006
Research based and technology enhanced strategies for teaching study skills and methods for adapting the curriculum to meet the needs of diverse students with disabilities. Explores instructional standards that support the curriculum. Ensures that students meet curriculum standards at the students’ highest achievement levels through careful planning and instruction.

SPED 4005 STRATEGIES FOR DEVELOPING SOCIAL SKILLS AND BEHAVIORAL CONTROLS 3-0-3
Prerequisite: Admission to candidacy in the College of Education, SPED 3001, and SPED 3006
Instructional methods for teaching conflict management, social interaction skills, language pragmatics, and behaviors conducive to learning. Provides guidance on classroom management strategies that reduce the behaviors and attitudes that disrupt learning.
SPED 4740 INTERNSHIP I: DIRECTED FIELD BASED RESEARCH 1-V-3
Prerequisite: Admission to candidacy in the College of Education, MATH 2200, and SPED 3006, SPED 4002, and SPED 4003.
A directed field-based research project forms the core of this field experience. Ensures candidates are placed in school settings appropriate for field-based research.

SPED 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12
Prerequisite: Admission to candidacy in the College of Education and satisfactory completion of all other coursework and program requirements.
Provides an extensive supervised field-based teaching experience. Serves as the capstone for the program of study. Must be completed satisfactorily before the candidate can be recommended for teacher certification.

SPED 5010U TECHNOLOGY FOR THE SPECIAL EDUCATOR 3-0-3
Admission to Candidacy in the Department of Childhood and Exceptional Student Education.
Course covers methods for using technology to support and extend instruction, the appropriate use of assistive and adaptive technology, techniques for selecting and utilizing computer based instructional programs, and methods for developing multimedia-based interactive instructional materials.

SPED 5130U ASSESSMENT IN SPECIAL EDUCATION 3-V-3
Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education.
Instruction in formal and informal assessment techniques and instruments appropriate for use in assessing students with disabilities. Demonstrates the use of assessment data to determine eligibility for services and to develop and evaluate individual education plans (IEP). A field experience is required.

SPED 5231U TEACHING READING AND DISABILITIES 3-V-3
Prerequisite: Admission to Candidacy in the College of Education, SPED 5010U and SPED 5130U.
Research based, multisensory, technology enhanced strategies and techniques for teaching reading, spelling, and written expression skills in an integrated process. A field experience is required.

SPED 5232U TEACHING MATHEMATICS AND DISABILITIES 3-V-3
Prerequisite: Admission to Candidacy in the College of Education, SPED 5010U, SPED 5130U.
Strategies and techniques for teaching mathematics through research based and technology enhanced approaches. A field experience is required.

SPED 5400U TRANSITION PLANNING 3-V-3
Prerequisite: Admission to Candidacy in the College of Education and SPED 4005 and SPED 5130U.
Offers strategies for working collaboratively with parents/guardians, a variety of support professionals and related personnel and agency staff to plan and provide appropriate special education services to individuals in various instructional settings, including transitions to secondary education or employment. Emphasizes skills required for team building. A field experience is required.

STAT – Statistics

STAT 3211 - PROBABILITY AND STATISTICS APPLICATIONS I 3-0-3
Prerequisite: MATH 2072 (minimum grade of C)
Data collection, organization and description; probability, random variables; discrete and continuous probability distributions; Central Limit Theorem; point and interval estimation; tests of hypotheses; simple linear regression and correlation.

STAT 3222 - PROBABILITY AND STATISTICS APPLICATIONS II 3-0-3
Prerequisite: STAT 3211 and MATH 2160
Sampling techniques, multiple linear regression, nonparametric statistics, and MANOVA.

STAT 3231 - MATHEMATICAL STATISTICS I 3-0-3
Prerequisite: MATH 2083 (minimum grade of C)
Probability, properties of discrete and random variables, joint and conditional distributions, expectation, and transformations.
<table>
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<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td>STAT 3232 - MATHEMATICAL STATISTICS II</td>
</tr>
<tr>
<td>Prerequisite: STAT 3231</td>
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<tr>
<td>Central limit theorem, point and interval estimation, sampling distributions, sufficient statistics, and hypothesis testing.</td>
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| STAT 3240 - EXPERIMENTAL DESIGN | 3-0-3 |
| Prerequisite: STAT 3211 or STAT 3231 | |
| Completely randomized and randomized block designs, incomplete block designs, fixed, random and mixed effects models, split-plot designs, nested experiments, analysis of covariance, and factorial experiments. | |

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<tr>
<th>THEA – Theatre</th>
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<tr>
<td>THEA 1100 THEATRE APPRECIATION</td>
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<td>Survey and critical appreciation of theatre.</td>
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| THEA 1200 INTRODUCTION TO THEATRE | 3-0-3 |
| Theatre from the Greeks to the present, exploring diverse historical and cultural movements manifested in, reflected in, and often shaped by the drama. | |

| THEA 1400 THEATER VOICE I | 2-0-2 |
| Fundamentals of voice training and introduction to repertoire. | |

| THEA 1500 THEATER VOICE II | 2-0-2 |
| Prerequisite: THEA 1400 or permission of instructor | |
| Continuation from THEA 1400. | |

| THEA 2270 THEATER LAB | 0-1-1 |
| Prerequisite: ENGL 1101 | |
| Practical experience in the theatre. The student will work on or back stage during an approved Masquers’ or departmental production. Only one hour of credit may be earned per term. The maximum total credit permitted is three semester hours. Offered each semester. | |

| THEA 2410 ORAL INTERPRETATION | 3-0-3 |
| Prerequisite: eligibility for ENGL 1101 | |
| Oral interpretation of poetry, prose and drama. Methods of literary analysis and vocal techniques needed to communicate an author’s mood and meaning. | |

| THEA 2690 INTRODUCTION TO DESIGN | 3-0-3 |
| Prerequisite: Eligibility for ENGL 1101 | |
| An introduction to the process of designing, communicating and pre-senting scenery, lights, and costumes for the theatre. Includes development of drawing, painting, and drafting skills according to USITT industry standards. | |

| THEA 3000 ACTING I | 3-0-3 |
| Basic acting which focuses on stage movement, fundamentals of voice and diction, improvisation, dramatic imagination, memory, and scene analysis. Performance of scenes and monologues from contemporary drama. | |

| THEA 3030 CREATIVE DRAMATICS AND CHILDREN’S THEATRE | 3-0-3 |
| Exploration of the various elements which make up a dramatic event, such as improvisational-based acting and story telling, which can be used as a teaching device. | |

| THEA 3040 STAGECRAFT | 3-0-3 |
| Systematic introduction to the fundamentals of scenic design, construction and rigging. The course relies heavily on hands-on instruction with the tools, techniques and materials used in mounting a stage production. | |

| THEA 3050 STAGE MOVEMENT | 3-0-3 |
| Prerequisite: eligibility for ENGL 1101 | |
| A workshop class focusing on the development of movement techniques including isolation, center, balance, Alexander Technique, mime, clowning, hand-to-hand combat, kinesethetics, and neutral mask. | |
THEA 3051 MUSICAL THEATRE CHOREOGRAPHY 3-0-3
Prerequisite: THEA 3000
The study and practice of musical theatre choreography—the development of staging and dances. Work will include choreographic experiences in the style of prominent musical theatre choreographers as well as choreography created by the students.

THEA 3052 STAGE COMBAT 3-0-3
Prerequisite: THEA 3000
Study of the skills necessary to present dramatic physical encounters for stage productions and learn to create the illusion of violence through safe fundamental techniques and convincing fight choreography.

THEA 3053 THEATRE DANCE TECHNIQUES 3-0-3
Prerequisite: THEA 3000 or permission of instructor
Development of physical proficiency in the performance of basic theatre dance concepts.

THEA 3100 AUDITIONS 1-0-1
Prerequisite: eligibility for ENGL 1101
Theory and techniques of auditioning. Types of auditions, material selection, and editing will be covered.

THEA 3270 VIDEO LAB 0-1-1
Prerequisite: ENGL 1102
Practical experience in video production through work on approved projects under supervision of Armstrong’s video production coordinator. Only one hour of credit may be earned per semester. Repeatable up to three hours. Crosslisted as COMM 3270.

THEA 3400 HISTORY OF FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
History and development of cinema from the silent period to the present time. Crosslisted as FILM 3400.

THEA 3420 ACTING II 3-0-3
Prerequisite: THEA 3000 or permission of instructor or department
Characterization and styles of acting; historical, critical, practical, theoretical, and experimental perspectives. Emphasis on development of performance skills.

THEA 3440 HISTORY OF THEATRE 3-0-3
Theatrical art from its beginnings through the Elizabethan period, emphasizing theatrical conventions of Greek, Roman medieval, and Elizabethan theatre.

THEA 3460 PLAY DIRECTING 3-0-3
Prerequisite: ENGL 1101
Theory and practice of play directing, including preparing and executing short scenes and plays.

THEA 3470 THEATRE MANAGEMENT 3-0-3
Prerequisite: ENGL 1101
Theory and practice in theatre management, including budget planning, box office, publicity, royalties, and other aspects of management.

THEA 3490 TELEVISION THEORY AND CRITICISM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Television theory and criticism with special emphasis on television as a media form. Crosslisted as FILM 3490.

THEA 3500 INTRODUCTION TO FILM 3-0-3
Prerequisite: ENGL 2100 or PHIL 2010 or PHIL 2030
Emphasis on the critical appreciation of film as an art form. Crosslisted as FILM 3500 and JOUR 3500.

THEA 3570 THEATRE MANAGEMENT II: MARKETING THE ARTS 3-0-3
Prerequisite: THEA 3470 and permission of instructor
Emphasis is on audience analysis and development. Publicity, promotions, and marketing tools examined.
THEA 3600 SCRIPT ANALYSIS 3-0-3
Prerequisite: ENGL 1101
Assessment of script demands from the performance perspective of the actor, designer and director.

THEA 3700 SCENE DESIGN 3-0-3
Prerequisite: THEA 3040 or THEA 3600 or permission of instructor or department
Principles of scenography. Emphasis on drafting, rendering and model construction.

THEA 3740 MAKE UP DESIGN 3-0-3
Prerequisite: THEA 1100 or THEA 1200 or THEA 2410 or permission of instructor or department
Principles of the art and techniques of make up design.

THEA 3750 INTRODUCTION TO LIGHT DESIGN 3-0-3
Prerequisite: THEA 2690 or permission of instructor or department
Study of technical and design elements of stage lighting. Survey of equipment and techniques standard in performance industry.

THEA 3751 ADVANCED LIGHTING DESIGN 3-0-3
Prerequisite: THEA 3750 or permission of instructor
Advanced study in lighting design, focusing on the development of standard industry paperwork including light plots and supporting paperwork such as magic sheets.

THEA 3760 SCENE PAINTING 3-0-3
Introduction to the principles of scene painting, emphasizing the fundamentals of professional techniques standard to professional industry. Topics include faux treatments such as wood graining and stonework.

THEA 3800 VIDEO PRODUCTION I 3-0-3
Prerequisite: permission of instructor
Overview of various forms of single camera video and film production. Topics include creation of TV commercials, instructional videos, etc. Emphasis on producing narrative.

THEA 3810 VIDEO PRODUCTION II: INTERMEDIATE TECHNIQUES 3-0-3
Prerequisite: THEA 3800 and permission of instructor
Emphasis on intermediate storytelling techniques through directing and editing short films. Topics include composition, pacing and editing.

THEA 3850 PROBLEMS IN DESIGN 3-0-3
Prerequisite: THEA 3040 or permission of instructor
Exploration of unique approaches to scenic design. Environmental spaces, drop productions, designing for the round to be covered.

THEA 3900 PLAY PRODUCTION 3-0-3
Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor

THEA 4000 SPECIAL TOPICS IN THEATRE V-V-(1-3)
Prerequisite: ENGL 1101
Subject announced when course offered. Subjects vary, such as: classical acting styles, absurdist drama, stage combat, scenic painting.

THEA 4030 CHILDREN'S THEATRE HOUR 3-0-3
Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor
Study of production elements and practical experience in producing, performing, and touring children's theatre. Elements include script selection and editing, adaptation to match audience age, etc.

THEA 4040 STAGECRAFT II 3-0-3
Prerequisite: THEA 3040 or permission of instructor
Exploration of unique material and techniques expected of trained production technician.
THEA 4420 ACTING FOR THE CAMERA 3-0-3
Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor
An introduction to the techniques of acting for the camera.

THEA 4430 ACTING FOR THE CAMERA II: ADVANCED TECHNIQUES 3-0-3
Prerequisite: THEA 4420 or permission of instructor
A continuation of techniques and methods used in camera acting.

THEA 4470 STAGE MANAGERS AND DESIGNERS LAB 0-2-2
Prerequisite: permission of instructor or department
Practical experience in stage management, set, light or costume design. Course repeatable to a maximum of 6 credit hours.

THEA 4500 DRAMA WORKSHOP 0-3-3
Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.

THEA 4510 DRAMA WORKSHOP 0-3-3
Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.

THEA 4900 INDEPENDENT STUDY V-V-(1-3)
Prerequisite: ENGL 1101
Open only to seniors. Independent study in drama, offered on demand. Open to transient students only with permission of dean of faculty at Armstrong and the student’s home institution.

THEA 4950 CAPSTONE-SENIOR THESIS/PROJECT V-V-3
Prerequisite: permission of instructor or department
Open to seniors. Proposal and execution of a major research project or performance demonstrating a mastery of methods, content or techniques in area of specialization. Proposal must be accepted by drama faculty.

THEA 4980 DIRECTING LAB 0-2-2
Prerequisite: THEA 3460 and permission of instructor
Hands on experience of directing duties for mounting full-length stage production from script selection through to public performance.

THEA 4990 INTERNSHIP V-V-(1-12)
Prerequisite: permission of instructor or department
Open to juniors. Offered by specific arrangement. Student prepares an individually designed project involving off-campus work/study research.

WBIT – Georgia WebBSIT

WBIT 1100 INTRODUCTION TO INFORMATION TECHNOLOGY 3-0-3
This course is an introductory course in information technology. Topics include foundations in hardware, software, data and an overview of the use of information technology in organizations. Additional topics include structured programming techniques, systems development, database design and networking, with an emphasis on appropriate business ethics, interpersonal skills and team building.

WBIT 1310 PROGRAMMING AND PROBLEM SOLVING I 3-0-3
Prerequisite: C or better in an Area A mathematics course and in WBIT 1100
This course helps students to develop basic problem-solving skills using the Java programming language. Students are introduced to fundamentals of Java programming language with emphasis on primitive data types, control structures, methods, arrays, classes, objects, abstraction, inheritance and polymorphism. Students learn basic techniques of good programming style, design, coding, debugging, and documentation. Students are able to create programs to solve basic practical problems.

WBIT 2000 THE ENTERPRISE AND INFORMATION
TECHNOLOGY 3-0-3
Prerequisite: Prior or concurrent enrollment with a minimum grade of “C” in WBIT 1100
This course will look at the structure and management of an information technology infrastructure. From the
management aspect the course will touch on principles and practices of managing both people and technology
to support an organization. The course will emphasize how to make an information technology infrastructure
effective, efficient, and productive. The management of hardware, software, data, networks and other supporting
IT functions will be studied.

WBIT 2300 DISCRETE MATH FOR INFORMATION TECHNOLOGY 3-0-3
Prerequisite: MATH 1113 (minimum grade of C) or MATH 1950 or CSCI 2625 or permission of the instructor
Discrete (as opposed to continuous) mathematics is of direct importance to the fields of Computer Science and
Information Technology. This branch of mathematics includes studying areas such as set theory, logic, relations,
graph theory, and analysis of algorithms. This course is intended to provide students with an understanding of
these areas and their use in the fields of Computer Science and Information Technology.

WBIT 2311 PROGRAMMING AND PROBLEM SOLVING II 3-0-3
Prerequisite: WBIT 1310 (minimum grade of C)and WBIT 2300 (minimum grade of C)
The emphasis of this course is on advanced programming techniques in Java including GUI’s, software reuse
through component libraries, recursion, event-driven programming, database processing, file processing, and
exception handling. Students are able to create event-driven, graphical programs or text-based programs solving
practical problems incorporating databases and external files.

WBIT 3010 TECHNICAL COMMUNICATION 3-0-3
Prerequisite: ENGL 1102 (minimum grade of C)
This course covers workplace communication at the intermediate level. Topics include audience analysis,
research proposal and report writing, document and visual design, editing and presentation design.

WBIT 3110 SYSTEMS ANALYSIS AND DESIGN 3-0-3
Prerequisite: WBIT 1310 (minimum grade of C) and WBIT 2000 (minimum grade of C)
This course introduces the fundamental principles of the design and analysis of IT applications. In this course,
students will learn to apply the tools and techniques commonly used by systems analysts to build and document
IT applications. Classical and structured tools for describing data flow, data structure, process flow, file design,
input and output design, and program specification will be studied, as will object-oriented techniques.

WBIT 3111 INFORMATION TECHNOLOGY PROJECT MANAGEMENT 3-0-3
Prerequisite: WBIT 3110 (minimum grade of C), WBIT 3010 (minimum grade of C), and Statistics (minimum
grade of C)
Project management techniques and tools as applied to information systems projects including resource and
personnel management and allocation, product testing, scheduling, and project management software. Students
will study examples of both successful and unsuccessful projects and apply lessons learned to a class project.

WBIT 3200 DATABASE DESIGN, DEVELOPMENT AND DEPLOYMENT 3-0-3
Prerequisite or corequisite: WBIT 2311 (minimum grade of C)
This is an advanced course in database design, development and deployment. Course emphasizes database design
drawing distinctions between data modeling and process modeling using various modeling techniques including
Entity-Relationship Modeling, Object Modeling and Data Flow Diagramming; database development using the
relational model, normalization, and SQL; database deployment including control mechanisms, forms, reports,
menus and web interfaces. Additional topics include procedures, functions, packages and triggers. Students
will design, create and process a database to demonstrate competency in the course content.

WBIT 3400 INTRODUCTION TO DIGITAL MEDIA 3-0-3
Prerequisite: WBIT 1100 (minimum grade of C)
This course covers the basic design principles and tools for creating and editing digital media elements. Examples
of these elements include graphics, animation, audio, video, virtual space and simulation.
WBIT 3410 WEB APPLICATIONS DEVELOPMENT  
Prerequisite: WBIT 1310 (minimum grade of C)  
The course provides a survey of techniques and tools for developing basic web pages for delivery of text and graphic information; focus on page markup languages, client-side scripting, page design principles, page layout techniques, markup language syntax, and page styling methods.

WBIT 3500 ARCHITECTURE AND OPERATING SYSTEMS  
Prerequisite: WBIT 1310 (minimum grade of C)  
The course introduces students to the architectures of computer systems and the operating systems that run on them. It explores and gives experience with some common computer designs and operating systems. Topics include basic computer architecture, instruction set architecture, memory, memory management, processes, and file systems.

WBIT 3510 DATA COMMUNICATIONS AND NETWORKING  
Prerequisite: WBIT 3500 (minimum grade of C)  
The course covers computer network and communications concepts, principles, components, and practices; coverage of common networking standards, topologies, architectures, and protocols; design and operational issues surrounding network planning, configuration, monitoring, troubleshooting, and management.

WBIT 3600 INTRODUCTION TO E-COMMERCE  
Prerequisite: WBIT 3110 (minimum grade of C) and WBIT 3410 (minimum grade of C)  
The emphasis of this course is on basic principles and practices of E-commerce. Topics include infrastructures and applications of Ecommerce, E-Tailing, E-Marketing, advertisement, B2B, B2C, C2C, E-Government, M-Commerce, E-Learning, electronic payment systems, security, and legal issues. Students also learn to build simple dynamic Ecommerce sites using server-side scripting.

WBIT 4020 PROFESSIONAL PRACTICES AND ETHICS  
Prerequisite: Senior standing  
This course covers historical, social, economic and legal considerations of information technology. It includes studies of professional codes of ethical conduct, philosophy of ethics, risk analysis, liability, responsibility, security, privacy, intellectual property, the internet and various laws that affect an information technology infrastructure.

WBIT 4030 SENIOR PROJECT  
Prerequisite: Senior standing  
A capstone course for WebBSIT. Major students will be expected to complete a final team or individual project. The project may be an approved industry internship or a project developed and designed by faculty of the WebBSIT. Students will apply skills and knowledge from previous WebBSIT courses in project management, system design and development, digital media development, eCommerce, database design, and system integration.

WBIT 4112 SYSTEMS ACQUISITION, INTEGRATION AND IMPLEMENTATION  
Prerequisite: WBIT 3110 (minimum grade of C), WBIT 3200 (minimum grade of C), and WBIT 4520 (minimum grade of C)  
Most IT applications used by organizations are configured from components that have been purchased from third-party vendors. This includes both hardware components and, increasingly, software components. In this course, students will study the component acquisition process, and methods and techniques for integrating these components into an existing IT infrastructure.

WBIT 4120 HUMAN-COMPUTER INTERACTION  
Prerequisite: WBIT 2311 (minimum grade of C) and WBIT 3400 (minimum grade of C)  
Fundamentals of human-machine interfaces, both cognitive and physical. Learning styles and effects of short-term memory on cognition and reaction will affect hardware and software development. Students will design a prototype interface.

WBIT 4520 INFORMATION ASSURANCE AND SECURITY  
Prerequisite or corequisite: WBIT 3510 (minimum grade of C)  
This course is an introduction to information assurance and security in computing. Topics include computer, network (distributed) system and cyber security, digital assets protection, data backup and disaster recovery, encryption, cryptography, computer virus, firewalls, terrorism and cyber crimes, legal, ethical and professional issues, risk management, information security design, implementation and maintenance.
WBIT 4601 CUSTOMER RELATIONSHIP MANAGEMENT 3-0-3
Prerequisite: WBIT 3200 (minimum grade of C), and WBIT 3600 (minimum grade of C)
The use of IT applications has allowed many organizations to collect large amounts of data on their clients
and to apply such data to improve the relationships with their customers. In this course, students will study
customer relationship management systems, including the reasons for their emergence, the functionalities
that they provide and the issues one would have to face to successfully introduce a Customer Relationship
Management System into an organization.

WBIT 4602 IT RESEARCH SEMINAR 3-0-3
Prerequisite: WBIT 3111 (minimum grade of C), WBIT 3200 (minimum grade of C), WBIT 3600 (minimum
grade of C), and WBIT 4120 (minimum grade of C)
Students will participate in research and discussion on a topic of current interest. A term paper on the topic
(or related subtopic) is required. A designated faculty member from the Consortium will select the topic in
advance based on his/her expertise and lead the seminar.

WBIT 4610 IT POLICY AND LAW 3-0-3
Prerequisite: WBIT 3600 (minimum grade of C)
This course will focus on the legal implications of conducting business in the information age. Topics will
include current understanding of Internet contracts, copyright, trademark and patent law. Further, this course
will examine cutting-edge cases relating to security, e-commerce and emerging ethical issues and trends.
Faculty and Administration

Permanent, Full-Time Members of the Teaching Corps or Administrative Staff

This list includes only individuals who have faculty voting privileges. The number in parentheses after the names represents the initial year of employment at Armstrong State University. An asterisk indicates full graduate faculty status.

**Adams, Laurie (2009)**
Associate Professor of Radiologic Sciences
Ed.D., Georgia Southern University
M.S., University of North Florida
B.S., University of Central Florida

**Anderson, Gregory (1996)**
Director, First Year Experience
Lecturer of Leadership
Ed.S., Georgia Southern University
M.Ed., University of South Carolina
B.A., Bridgewater State College

**Anderson, James N. (1985)**
Director of International Education
Professor of Music
Ph.D., University of Texas-Austin
M.M., University of Houston
B.M.E., Wichita State University

Associate Professor of English
Ph.D., Vanderbilt University
M.A., Vanderbilt University
B.A., Furman University

**Ardakani, Moid (2015)**
Assistant Professor of Economics
Ph.D., University of Wisconsin-Milwaukee
M.A., University of Tehran
B.A., Yazd University

**Baker, Christopher P. (1994)**
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M.A., University of North Carolina
B.A., St. Lawrence University

**Barber, Dennis (2014)**
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M.A., University of New Mexico
B.A., Eastern New Mexico University

**Bates, Charlotte (2008)**
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B.S., Medical College of Georgia

**Beck, Jason (2009)**
Associate Professor of Economics
Ph.D., University of Kentucky
M.S., University of Kentucky
M.A., Miami University
B.A., Bellarmine University

**Beckworth, Jill (2011)**
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M.S.N., Armstrong Atlantic State University
B.A., Georgia Southern University
A.D.N., Armstrong Atlantic State University

**Beirdneau, Jennifer (2015)**
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M.A.Ed., University of Phoenix
B.S., University of Hartford

**Belford, William (2014)**
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M.F.A., University of Alabama
B.A., University of the South

**Belzer, Allison (2009)**
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Ph.D., Emory University
M.A., Emory University
A.B., Vassar College
Benjamin, Michael (2010)
Assistant Professor of History
Ph.D., Drew University
M.Ph., Drew University
M.A., Drew University
J.D., University of Pittsburgh
A.B., Lincoln University

* Bennett, Katherine (1997)
Professor of Criminal Justice
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M.C.J., University of South Carolina
B.S., University of South Carolina-Spartanburg

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M.M., Virginia Commonwealth University
B.M.E., Virginia Commonwealth University

Assistant Professor of Respiratory Therapy
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M.S., Georgia State University
B.A., Troy State University

* Bleicken, Linda M. (2009)
President
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M.S., Georgia State University
B.A., Georgia State University

* Bolton-Gary, Cynthia (2012)
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M.Ed., University of North Carolina-Charlotte
B.S., University of North Carolina-Chapel Hill

Bradley, Regina (2015)
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B.A., Albany State University

Bradshaw, Janet (2015)
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* Brawner, James (1997)
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B.S., Armstrong Atlantic State University

Associate Provost for Academic Affairs and Graduate Studies
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M.A., Hampton Institute
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Brooksher, Kelly
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Brown, Trisha Muldoon (2009)
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M.A., Saginaw Valley State University
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Dean of Education
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Professor of Health Services Administration
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Burke-Fabrikant, Kathleen (2011)
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Burnett, N. Beth (2002)
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Bussey-Campbell, Myka (2004)
Coordinator, Diagnostic Medical Sonography Track
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* Crosby, Joseph (1995)
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* Curtis, Christopher (2013)
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* da Cruz, Becky Kohler (2005)
  Associate Professor of Criminal Justice
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* da Cruz, José de Arimateia (2003)
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  Associate Professor of English
  Ph.D. Emory University
  M.A. Friedrich Alexander University
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<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Estabrook, Virginia Hutton (2015)</td>
<td>Assistant Professor of Anthropology</td>
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<td>Faudree, Cyndi (2015)</td>
<td>Assistant Professor of Nursing</td>
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<td>Ferguson, Taylor (2015)</td>
<td>Lecturer of Psychology</td>
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<td>* Fertig, Barbara (1992)</td>
<td>Professor of History</td>
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<td>Ph.D., George Washington University</td>
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<td>Feske, Brent (2007)</td>
<td>Interim Assistant Dean of Science and Technology</td>
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<td>Associate Professor of Chemistry</td>
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<td>Foster, Ardyth (2013)</td>
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<td>Francis, Austin W. (2008)</td>
<td>Assistant Professor of Biology</td>
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<td>Ph.D., Florida Institute of Technology</td>
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<td>B.S., Roger Williams University</td>
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<td>Frazier, Douglas R. (1991)</td>
<td>University Librarian</td>
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<td>Assistant Professor of Library Science</td>
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<td>Fuller, Ann (2006)</td>
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<td>B.A., Armstrong Atlantic State University</td>
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<tr>
<td>* Gajdosik-Nivens, Delana (2000)</td>
<td>Associate Provost for Student Engagement and Success</td>
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<td>Professor of Chemistry</td>
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<td>Garrison, Judith S. (2011)</td>
<td>Head of Reference and Instruction</td>
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<td>B.G.S., Indiana University Bloomington</td>
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<td>Garrity, April W. (2007)</td>
<td>Associate Professor of Communication Sciences and Disorders</td>
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<td>Ph.D., Louisiana State University</td>
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<td>Gearhart, Grant (2015)</td>
<td>Assistant Professor of Spanish</td>
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<td></td>
<td>Ph.D. The University of North Carolina at Chapel Hill</td>
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<td>M.A., The University of North Carolina at Chapel Hill</td>
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<td>B.A., Sewanne: The University of the South</td>
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<td>Gentles, Jeremy (2015)</td>
<td>Assistant Professor of Health Science</td>
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<td>B.S., East Tennessee State University</td>
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<tr>
<td>* Gilbert, Catherine (2003)</td>
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<td>M.S.N., University of Toronto</td>
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<td>B.S.N., Ryerson Polytechnic University</td>
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<td></td>
<td>R.N., Prince Edward Island School of Nursing</td>
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<tr>
<td>Gilliard-Smith, Sharon (2002)</td>
<td>Assistant Professor of Radiologic Sciences</td>
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<td>M.H.S., Armstrong Atlantic State University</td>
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<tr>
<td>Glenn, Frank (2015)</td>
<td>Assistant Professor of Rehabilitation Sciences</td>
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<td>Ph.D., The University of Oklahoma Health Sciences Center</td>
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<td>Goeser, Priya (2003)</td>
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<td>Ph.D., University of Delaware</td>
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<td>Gray, Sarah (2013)</td>
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<td>Ph.D., University of Montana</td>
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M.A., People’s University of China
B.A., People’s University of China

Dean of Health Professions
Professor of Health Sciences
Ph.D., New York University
M.P.A., New York University
B.A., Colgate University

Warnock, Sherry (2011)
Lecturer of Nursing
M.S.N., Armstrong Atlantic State University
B.S.N., Armstrong Atlantic State University

Warsaw, Benjamin (2014)
Assistant Professor of Music in Piano
D.M.A., Boston University
M.M., Eastman School of Music
B.M., Eastman School of Music

Weiland, Mitch H. (2011)
Assistant Professor of Biochemistry
Ph.D., University of South Carolina
B.S., Viterbo University

Wells, Rebecca (2014)
Assistant Professor of Science Education
Ed.D., Georgia Southern University
M.S., Georgia Southern University
B.S., Armstrong State University

Wessell, Lara A. (2011)
Assistant Professor of Political Science
Ph.D., University of Wisconsin-Milwaukee
B.A., Cardinal Stritch University

Whatley, Maliece (2014)
Lecturer of Accounting
M.Acc., University of Georgia
B.B.A., University of Georgia
* Wheeler, David (2005)
Interim Dean of Liberal Arts
Professor of English
Ph.D., University of Virginia
M.A., University of Chicago
B.A., University of Illinois, Urbana-Champaign

* Whitford, Ellen V. (2006)
Professor of Education
Ed.D., Rutgers, The State University of New Jersey
M.Ed., Arcadia University
B.A., University of Delaware

Williams, Christopher (2015)
Lecturer of Engineering Studies and Computer Science
M.S., Armstrong Atlantic State University
B.S., Armstrong Atlantic State University

Williams, Elizabeth (2010)
Lecturer of Education
Ed.S., Georgia Southern University
M.Ed., Armstrong Atlantic State University
B.S.Ed., Armstrong Atlantic State University

Williams, Joshua (2012)
Assistant Professor of Psychology
Ph.D., University of Tennessee
M.A., University of Tennessee
B.A., Purdue University

Williams, McKenzie (2014)
Lecturer of Health and Physical Education
M.Ed., Armstrong Atlantic State University
B.S., Armstrong Atlantic State University

Williams, TimMarie (2014)
Assistant Professor of Health Sciences (Gerontology)
Ph.D., University of North Texas
M.C.G., Baylor University
B.A., St. Edward's University

* Wimer, Gregory (1994)
Professor of Health and Physical Education
Ph.D., Ohio State University
M.S., University of South Carolina
B.S., University of South Carolina

* Winterhalter, Teresa (1994)
Assistant Dean of Liberal Arts
Professor of English
Ph.D., University of Rochester
M.A., University of Rochester
M.A., State University of New York - Cortland
B.A., State University of New York - Brockport

Associate Professor of Psychology
Ph.D., Syracuse University
M.S., Syracuse University
B.A., University of North Carolina - Wilmington

* Wong, Jane (2002)
Interim Dean of Science and Technology
Professor of Psychology
Ph.D., Northern Illinois University
M.A., Northern Illinois University
B.A., Loyola University

Wynn, Gail G. (1992)
Assistant Professor of Biology
Ph.D., Louisiana State University
M.S., Louisiana State University
B.S., Oglethorpe University

Wyse, Jennifer (2014)
Assistant Professor of Sociology
M.S., Virginia Polytechnic Institute and State University
B.S., Old Dominion University

Zellinger, Elissa (2014)
Lecturer of English
Ph.D., University of North Carolina, Chapel Hill
M.A., University of North Carolina, Chapel Hill
B.A., Barnard College

Zettler, Jennifer (2002)
Professor of Biology
Ph.D., Clemson University
M.S., Clemson University
B.S., University of Florida

* Zhang, Hong (2002)
Head of Computer Science and Information Technology
Professor of Computer Science
Ph.D., University of Pittsburgh
M.A., University of Pittsburgh
M.S.E.E., University of Pittsburgh
B.S., Fudan University

Zingales, Sarah (2013)
Assistant Professor of Chemistry
Ph.D., Georgia State University
B.S., Auburn University
Officers of Administration at Armstrong State University

President's Office
Dr. Linda M. Bleicken ................................................................. President
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Mr. Lee Davis ............................................................................. University Counsel
Ms. Susan Hacker ......................................................................... Internal Auditor
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Ms. Katherine Steiner ................................................................... Assistant Dean of Student Life
Ms. Joanne Landers ..................................................................... Director, Admissions
Mr. George Lantzounis ............................................................. Director, Career Services
Ms. Jeanne McGowan ................................................................... Director, Counseling Center
Ms. Kelly Woodruff ..................................................................... Director, Disability Services
Ms. Kaye O’Neal ......................................................................... Director, Financial Aid
Ms. Megan Feasel ...................................................................... Director, Recreation and Wellness
Mr. Nicholas Shrader ................................................................... Director, University Housing and Residence Life

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Mr. Cam Reagin ......................................................................... Assistant Vice President for Business and Finance
Ms. Jessica Henderson ............................................................... Controller for Foundations
Mr. Marc Mascolo ....................................................................... Director, Budget and Financial Analysis, Auxiliary Services
Ms. Maureen Grant ......................................................................... Controller
Ms. Yolinda German ..................................................................... Bursar
Ms. Rebecca Carroll ..................................................................... Director, Human Resources
Ms. Katie Twining ......................................................................... Director, Facility Services
Ms. Lisa Sweany ......................................................................... Director, Athletics
Mr. Chad Jackson................................................................. Director, Sports Communications
Mr. Wayne Wilcox ................................................................. Chief of Police
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Emeriti Faculty

Professor of Psychology and Dean of Arts and Sciences Emeritus

Agyekum, Stephen K. (1979-2007)
Professor of Early Childhood Education Emeritus

Dean of Community Services and Registrar Emeritus

Ball, Ardella Patricia (1968-2008)
Associate Professor of Education Emerita

Barnard, Jane (1980-2009)
Associate Professor of Mathematics Emerita

Bergin, Joyce (1992-2012)
Professor of Special Education Emerita

Beumer, Ron (1975-2004)
Professor of Biology Emeritus

Brandt, Patricia (1995-2007)
Associate Professor of Early Childhood Education Emerita

Professor of Chemistry Emeritus

Brower, Moonyean (1967-1995)
Associate Professor of Biology Emeritus

Brown, George (1972-2003)
Assistant Professor of Criminal Justice Emeritus

Vice President of Student Affairs Emeritus

Buck, Marilyn (1974-2008)
Professor of Nursing Emerita

Vice President and Dean of Faculty and Professor of Physics Emeritus

Assistant Professor of Nursing Emerita

Cross, Deanna S. (1989-2006)
Professor of Nursing Emerita

Dandy, Evelyn (1974-2006)
Professor of Early Childhood Education Emerita

Daugherty, William J. (1996-2011)
Professor of Political Science Emeritus

Davenport, Leslie B., Jr. (1958-1983)
Professor of Biology Emeritus

Professor of Psychology Emeritus

Duncan, John (1965-1997)
Professor of History Emeritus

Findeis, John (1968-1995)
Assistant Professor of Mathematics Emeritus

Gross, Jimmie (1967-1997)
Professor of History Emeritus

Hansen, John (1967-2002)
Professor of Mathematics Emeritus

Harris, Henry (1966-2002)
Professor of Chemistry Emeritus

Harris, Karl (1971-1998)
Assistant Professor of English Emeritus

Hoffman, Lorrie (2004-2014)
Professor of Mathematics Emerita

Howard, Thomas F. (1993-2012)
Associate Professor of Geography Emeritus

Hudson, Anne (1971-1997)
Professor of Mathematics Emerita

Hudson, Sigmund (1985-1997)
Professor of Computer Science Emeritus

Jenkins, Marvin (1968-1997)
Assistant Professor of English Emeritus

Associate Professor of Political Science Emeritus

Kilhefner, Dale Z. (1973-2007)
Professor of Mathematics Emeritus

Professor of Philosophy & Literature Emeritus

Knorr, Virginia (1973-2008)
Assistant Professor of Health and Physical Education Emerita

Lane, Joseph (1970-2001)
Professor of Psychology Emeritus

Lanier, Osmos (1965-1997)
Professor of History Emeritus
Lariscy, Michael (1975-2009)  
Associate Professor of Health and Physical Education Emeritus

Professor of Criminal Justice Emeritus

Professor of Psychology Emerita

Professor of Criminal Justice Emeritus

Professor of Mathematics Emeritus

Newberry, S. Lloyd (1968-2000)  
Professor of Science Education and Dean of Education Emeritus

Professor of English Emeritus

Palefsky, Elliot (1971-2004)  
Professor of Psychology Emeritus

Patterson, Robert (1966-1998)  
Professor of History Emeritus

Professor of Biology Emeritus

Powell, Catharine (1991-2007)  
Associate Professor of Nursing Emerita

Pruden, George (1982-2002)  
Professor of History Emeritus

Relyea, Kenneth G. (1990-2006)  
Professor of Biology Emeritus

Repella, James F. (1976-2001)  
Professor of Nursing and Dean of Health Professions Emeritus

Robinson, Aurelia (1972-1986)  
Associate Professor of Education Emerita

Schollart, Warren (1989-2001)  
Associate Professor of Education Emeritus

Professor of Art Emeritus

Schultz, Lucinda D. (1986-2011)  
Professor Emerita of Music

Shipley, Charles (1972-2005)  
Professor of Computer Science Emeritus

Professor of Health Science and Dean of Graduate Studies Emerita

Sims, Roy Jesse (1955-1990)  
Professor of Physical Education Emeritus

Stephens, Jacquelyn (1979-1990)  
Professor of Education Emerita

Stone, Janet D. (1975-2007)  
Associate Professor of History Emerita

Stratton, Cedric (1965-1993)  
Professor of Chemistry Emeritus

Professor of English Emeritus

Suchower, John (1969-1992)  
Assistant Professor of Drama Emeritus

Tanenbaum, Barbara G. (1972-2008)  
Professor of Dental Hygiene Emerita

Welsh, John (1967-2000)  
Assistant Professor of English Emeritus

White, Nancy A. (1994-2010)  
Professor of History Emerita

White, Susan S. (1974-2008)  
Assistant Professor of Special Education Emerita

White, Virginia (1967-1991)  
Assistant Professor of English Emerita

Whiten, Morris (1970-2001)  
Professor of Physics Emeritus
University System of Georgia Organization

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Dr. Cecil Staton ............................................................ Vice Chancellor, Extended Education
Merryl S. Penson .......................................................... Executive Director, Library Services

Administrative and Fiscal Affairs
Dr. Steve Wrigley ........................................................ Executive Vice Chancellor of Administration
Ms. Shelley C. Nickel .................................................... Vice Chancellor, Planning
Mr. John E. Brown ....................................................... Vice Chancellor, Fiscal Affairs
Dr. Robert H. Laurine, Jr. ................................................ Chief Information Officer
Mr. Jim James, MPA, AIA, AUA ................................. Vice Chancellor, Facilities
Ms. Marion Fedrick ........................................................ Vice Chancellor, Human Resources

External Affairs
Dr. Charles Suttle ........................................................ Vice Chancellor
Ms. Christina Hobbs .................................................. Business Development Manager
Ms. Amanda D. Seals .................................................. Associate Vice Chancellor for Government Relations

University System of Georgia
270 Washington Street, S.W.
Atlanta, GA 30334
Institutions of the University System of Georgia

Georgia Archives
5800 Jonesboro Road
Morrow, GA 30260

Georgia Public Library Service
1800 Century Place, Suite 150
Atlanta, GA 30345-4304

Research Universities

Georgia Institute of Technology
North Avenue
Atlanta, GA 30332

Georgia Regents University
1120 Fifteenth Street
Augusta, GA 30912

Georgia State University
PO Box 3965
Atlanta, GA 30303-3083

University of Georgia
Athens, GA 30602

Comprehensive Universities

Georgia Southern University
PO Box 8033
Statesboro, GA 30460

University of West Georgia
1601 Maple Street
Carrollton, GA 30118

Kennesaw State University
1000 Chastain Road
Kennesaw, GA 30144-5591

Valdosta State University
1500 North Patterson Street
Valdosta, GA 31698

State Universities

Albany State University
504 College Drive
Albany, GA 31705-2717

Georgia College & State University
PO Box 23
Milledgeville, GA 31061

Armstrong State University
11935 Abercorn Street
Savannah, GA 31419-1997

Georgia Southwestern State University
800 Georgia Southwestern State Univ. Drive
Americus, GA 31709-4693

Clayton State University
2000 Clayton State Boulevard
Morrow, GA 30260-0285

Middle Georgia State University
100 College Station Drive
Macon, GA 31206

Columbus State University
4225 University Avenue
Columbus, GA 31907-5645

Savannah State University
3219 College Avenue
Savannah, GA 31404

Fort Valley State University
1005 State University Drive
Fort Valley, GA 31030-4313

University of North Georgia
82 College Circle
Dahlonega, GA 30597
### State Colleges

<table>
<thead>
<tr>
<th>College Name</th>
<th>Address</th>
<th>City, State, ZIP Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abraham Baldwin Agricultural College</td>
<td>2802 Moore Highway</td>
<td>Tifton, GA 31793</td>
</tr>
<tr>
<td>Atlanta Metropolitan State College</td>
<td>1630 Metropolitan Parkway, SW</td>
<td>Atlanta, GA 30310-4498</td>
</tr>
<tr>
<td>Bainbridge State College</td>
<td>2500 East Shotwell Street</td>
<td>Bainbridge, GA 39819</td>
</tr>
<tr>
<td>College of Coastal Georgia</td>
<td>One College Drive</td>
<td>Brunswick, GA 31520</td>
</tr>
<tr>
<td>Dalton State College</td>
<td>650 College Drive</td>
<td>Dalton, GA 30720</td>
</tr>
<tr>
<td>Darton State College</td>
<td>2400 Gillionville Road</td>
<td>Albany, GA 31707-3098</td>
</tr>
<tr>
<td>East Georgia State College</td>
<td>131 College Circle</td>
<td>Swainsboro, GA 30401-2699</td>
</tr>
<tr>
<td>Georgia Gwinnett College</td>
<td>1000 University Center Lane</td>
<td>Lawrenceville, GA 30043</td>
</tr>
<tr>
<td>Georgia Highlands College</td>
<td>3175 Cedartown Highway, SE</td>
<td>Rome, GA 30161</td>
</tr>
<tr>
<td>Georgia Perimeter College</td>
<td>3251 Panthersville Road</td>
<td>Decatur, GA 30034-3897</td>
</tr>
<tr>
<td>Gordon State College</td>
<td>419 College Drive</td>
<td>Barnesville, GA 30204-1762</td>
</tr>
<tr>
<td>South Georgia State College</td>
<td>100 West College Park Drive</td>
<td>Douglas, GA 31533-5098</td>
</tr>
</tbody>
</table>
Glossary of Terms

**academic advisement**: a process which assists students in clarifying their educational, career, and life goals. Faculty and staff advisors help students develop goals, plan all academic course work and other educational experiences. Students are required to meet with academic advisors at least once every semester but are encouraged to visit more often.

**academic probation**: a status that indicates a student is not maintaining the required minimum GPA. The first time a student falls below the required GPA he or she is placed on good standing with warning. Failure to raise the adjusted GPA to the required level during the next term will result in academic probation.

**academic suspension**: status given to students on academic probation who neither achieve the required adjusted GPA nor earn at least a 2.0 grade point average during the probationary period. Such students will need to appeal to continue attending the university.

**advanced placement**: (1) Eligibility to enroll in higher level courses, based on transfer credit or successful prior learning assessment of foundational knowledge and/or skills. (2) Thirty-four tests in 19 subject areas developed by the College Board to correspond with Advanced Placement high school courses

**accredited**: a designation that an institution has been evaluated and met criteria set by an independent oversight agency. For example, the Commission on Colleges of the Southern Association of Colleges and Schools rules on accreditation for Armstrong State University.

**ACT-American College Testing**: a standardized exam that tests verbal, math, and writing skills.

**add (a class)**: students may sign up for another class after their initial registration.

**adjusted GPA**: the total honor points earned divided by the total hours attempted, with hours and honors points for repeated courses not duplicated in the calculation (see GPA). Includes transfer hours credited to the student’s course of study at Armstrong.

**advance registration**: an early registration period available to currently enrolled students. Also known as pre-registration.

**American Council on Education (ACE)**: A national association of higher education institutions that focuses on advocacy, leadership development and lifelong learning. ACE serves adult learners and nontraditional students by evaluating and translating workplace learning and nontraditional education experiences into academic credits through the College Credit Recommendation Service (CREDIT), and armed services members through ACE’s Veterans Programs and ACE’s Military Programs, by evaluating and recommending equivalent college credits for military training and experience.

**area of concentration**: a part of the course of study required for the bachelor of liberal studies degree; any minor approved by the Board of Regents may be chosen.

**associate of arts (AA) or associate of science (AS) degree program**: two years (full-time) of study that completes a student’s core curriculum requirements.

**associate of applied science (AAS) degree program**: two years (full-time) of study in a specific discipline.
auditing: attending a class without receiving credit. Students must be enrolled, receive permission from the instructor, declare audit status at the time of registration, and pay the tuition and fees for the class.

baccalaureate: a program of study lasting four years (full-time) consisting of two years of core curriculum and two years of courses in an area of specialization or major (see bachelor of arts/bachelor of science degree programs).

bachelor of arts (BA) or bachelor of science (BS) degree program: four years (full-time) of study consisting of two years of core curriculum and two years of courses in an area of specialization or major, also referred to as a bachelor’s or baccalaureate degree.

Board of Regents: the governing board of the University System of Georgia.

certificate programs: a course of study, shorter than a degree, leading to certification in a specific field. May be on a pre-or post-baccalaureate level, depending on field.

challenge exams: available only for specific courses, usually for students who have experience in a specific field. Students passing this type of exam would be exempt from certain classes.

classification: a term based on the number of credit hours earned to classify a student at the freshman, sophomore, junior or senior level.

College Level Examination Program (CLEP): A national standardized testing program that offers 33 tests in the subject areas of Business, Composition and Literature, History and Social Sciences, Science and Mathematics, and World Languages. CLEP is managed by the College Board and allows students to earn college credit by demonstrating mastery of college-level material by earning qualifying scores.

College Preparatory Curriculum (CPC): a high school course of study required of all students graduating from high school within the past five years. Course requirements include English, math, science, social sciences, and foreign languages. CPC requirements apply to students with a GED who would have graduated within the same time frame.

core curriculum: a broad course of study required of all students pursuing a bachelor’s degree. Courses come from the areas of the humanities, social sciences, math, and natural sciences for a total of 60 semester hours.

corequisite: a course required to be taken at the same time as another course. Corequisites are listed in the catalog under course descriptions.

Credit by Examination (CBE): The most commonly recognized form of prior learning assessment. CBE includes national standardized tests (e.g., AP, CLEP, DSST, Excelsior, and IB), as well as departmental challenge exams.

DANTES: The Defense Activity for Non-Traditional Education Support (DANTES) program is an agency of the Department of Defense (DoD). DANTES provides the DoD with worldwide education support by coordinating off-duty voluntary education programs, development activities and special projects, and sponsoring a wide range of standardized testing programs.

Dean’s List: an announcement at the end of each semester listing those students who have earned at least 9 semester hours with at least a 3.6 honor point average. Only course work taken at Armstrong will be used in the computation of Dean’s List honors.
delayed admission: admission status of students who have not attended high school or college within the last five years and have earned fewer than 20 transferable credits. These applicants are not required to take the SAT or ACT, but will take the Compass Exam.

drop (a class): A student who drops a course before the drop/add period is over does not receive a grade in the course and the course does not appear on the academic transcript.

DSST: An acronym used for the DANTES Subject Standardized Tests Program, DSST a standardized testing program that offers 38 exams in the areas in the areas of Math, Social Sciences, Humanities, Business, Physical Science, and Technology.

early admission: a program for high school students who have not completed the eleventh grade, but who have demonstrated outstanding academic potential.

elective: a course which is related to the courses in a major or which counts as general credit toward a degree.

exit exams: exams given by a department to graduating seniors to determine minimum levels of competency in the major subject area.

freshman: student who has earned fewer than 30 semester hours.

freshman index: computed using SAT scores and the high school grade point average only on CPC units required for admission.

full-time: students taking 12 or more semester hours of classes.

GED - General Education Development: an equivalent to the high school diploma; students must submit official GED scores for admission.

good standing: a status that indicates students are maintaining the required minimum GPA. good standing with warning: status given to students whose GPA falls below the required GPA for the first time.

GPA - grade point average: a point system used to determine the average of all grades a student has received for one term or for an entire college career. To determine GPA, honor points awarded based on each grade received are totaled then divided by the number of hours attempted.

graduate work: refers to any studies done toward a master’s or doctoral degree.

GRE - Graduate Record Exam: standardized exams that test verbal, quantitative, and analytical skills, usually used as part of the admissions process for graduate school. GRE subject exams are also available, and sometimes used for graduate admissions.

honor points: the points earned based on the letter grade and semester hours credited for a course. Used to determine GPA.

independent study: classes that permit students to pursue individual research and reading in their major field. Permission from the department head or the professor is required.

in-state tuition: rate of tuition paid by Georgia residents.

internship: work in a firm or agency related to a student’s major program and/or career plans.
intramurals: organized competitive sports activities coordinated though the Department of Health and Physical Education. Open to all interested students.

junior: student who has earned between 60 and 89 semester hours.

major: an area of concentrated study in a degree program approved by the Board of Regents. For a major program, a department will require 60 semester hours of specific courses or approved elective courses in related fields.

master’s (MA, MS, MEd, MPH, etc.) degree program: two years (full-time) of study in a specific area of specialization. This degree is attempted after a bachelor’s degree and may require an in-depth research paper or thesis for completion of the degree.

minor: an optional course of study chosen in addition to a major consisting of 15-18 specified semester hours in an area of study different from the student’s major.

Navigate Armstrong: an orientation program held for new students. Navigate leaders are students who have been trained to present these orientation sessions.

out-of-state tuition: rate of tuition paid by students who are not legal residents of Georgia.

part-time: students taking fewer than 12 semester hours of classes.

portfolio: A collection of work (e.g., paintings, writings, artifacts, examples) and related narrative developed by a student which may be used to demonstrate competency in an academic area.

pre-professional programs: courses appropriate for the first two years of baccalaureate programs not offered among degree programs here at the university, such as business, engineering, and pharmacy. Also includes study appropriate for dentistry, medicine, veterinary medicine and other professional fields.

pre-registration: an early registration period available to currently enrolled students. Also known as advance registration.

prerequisite: a course required before a more advanced course may be taken. Prerequisites are listed in the catalog under course descriptions.

Prior Learning Assessment (PLA): A general term referring to various ways of evaluating and assessing college level learning that has been acquired outside the traditional classroom and is used for the purpose of awarding college credit or advanced placement.

programs of study: refers to specific majors or areas of study, usually leading to a degree.

readmission: students who have attended Armstrong in the past, but have not taken classes at the university for three or more terms, not including the summer term.

registration: a time to enroll for specific classes for the upcoming term.

regular admission: admission status for students who, upon entrance to the university, have the required standardized test scores (SAT verbal 460/SAT math 430 or ACT English 19/ACT math 18), required Freshman Index of 1940, have completed the required college prep curriculum (see CPC), and have not been out of high school more than four years. This status will be awarded to other students upon completing 18 hours of credit with a 2.0 grade point average.
residency: students are considered residents of Georgia if they have lived in Georgia at least one year and meet the Board of Regent’s requirements for determining residency. Students who have not lived in Georgia for one year or who are just coming to Georgia for their education and plan to move back to another state after graduation are not considered residents.

RETP - Regents Engineering Transfer Program: students may transfer to Georgia Tech in Atlanta after successfully completing a two-year pre-engineering curriculum at Armstrong.

ROTC - Reserve Officer Training Corps: a curriculum available at Armstrong and Savannah State that qualifies students for commissions as officers in the US Army, Army Reserves, US Navy, Naval Reserves or US National Guard after graduation.

SAT 1: a standardized exam that tests verbal, math, and writing skills. Scores are used to determine admission status for freshmen.

semester hours: the approximate number of hours spent each week in a particular class. Semester hours are the units of academic credit.

semester system: a school term based on approximately 15 weeks, including two regular sessions each year plus a shorter summer session.

senior: student who has earned 90 or more semester hours.

senior privilege: An undergraduate student with a GPA of 3.0 or higher and within 24 semester hours of graduation may apply for Senior Privilege and enroll in a maximum of 12 hours of graduate coursework at the 5000G and 6000-levels. The maximum of graduate coursework permitted in any one semester is eight hours; the maximum total of all coursework permitted in any semester in which a student is taking graduate coursework is 12 hours. Permission to enroll must be approved by the chairperson of the student’s undergraduate major and by the appropriate graduate program director. The graduate program director holds final authority.

sophomore: student who has earned between 30 and 59 semester hours.

transcript: an official record of all courses taken at a particular institution. An official transcript is a transcript sent directly from one institution to another; a student copy is a transcript issued to students.

transfer: students seeking admission who have previously been enrolled at another institution of higher education.

transfer credit: credit for courses taken at another institution. Granting credit will be considered only for course work from an accredited institution.

transient: admission status of students currently enrolled at another institution applying for temporary admission to Armstrong for one term. Students must be in good standing at their home institution, and have written permission from their dean or registrar to take specific courses at Armstrong which may be transferred to their home institution.

University System of Georgia: the overall system of public higher education in Georgia.

withdrawal from a class: A student who wishes to withdraw from a course after the drop/add period is over must obtain a withdrawal notice from Enrollment Services. The notice must be signed by the instructor of the course and returned by the student to Enrollment Services. A student who withdraws from a course taken the first time, after the drop/add period is over and before the mid-
term semester dates will receive a W or WF at the instructor's discretion. A student who withdraws from a course taken in the Fall 2012 semester or afterwards and after the drop/add period is over will receive a WF in the course at any point in the semester if the student is withdrawing from the same class a second time. A student who withdraws from a course after the mid-term semester dates will receive a WF in the course.

**withdrawal from the university**: the act of dropping out of the university completely; the date of the withdrawal determines any fee refund or grade penalty.
Appendix I

Honor Code and Code of Conduct

Note: Any revisions to the Honor Code and Code of Conduct will be reflected in the online version under the Office of Student Integrity. Please refer to the online version for the most up-to-date policies and procedures.

Armstrong State University exists to provide an environment in which intellectual achievement, scholarship, and character development can flourish. The Armstrong community — students, faculty, administration, and staff — willingly shares the responsibility for sustaining a creative and productive atmosphere through adherence to the highest standards of personal and professional conduct. All who are privileged to be a part of Armstrong campus life must remain cognizant that they are representatives of Armstrong State University, whether they are on campus or elsewhere, and are therefore expected to avoid behavior which brings discredit or dishonor upon themselves or to the University as an institution. Recognizing that trust is the cornerstone of all human relations, students will work to build and sustain the trust of their peers, the faculty, and the administration by obeying both the letter and the spirit of the Honor Code and the Code of Conduct.

Student Responsibilities

At each registration, students must agree to abide by the rules of the Honor Code and the Code of Conduct. The Honor Code and Code of Conduct shall be printed in the Armstrong Catalog and on the University website.

It will be the responsibility of the Student Court or its designated representative to conduct an orientation program at the beginning of each semester for all new students to explain the Codes and allow discussion of the requirements for each Code. Any student desiring assistance with any matter related to these Codes is invited to seek assistance in the Division of Student Affairs.

Students are expected to:
1. Exercise honesty in all matters, both academic and personal in nature.
2. Be fair and courteous with others, treat them fairly and with respect, showing sensitivity to cultural, ethnic, and religious diversity, and personal dignity.
3. Accept personal responsibility for appropriate behavior as defined by the Codes.
4. Know the offenses under each Code and the penalties for violating them.
5. Understand that they are responsible for knowing and following any additional written or verbal requirements given by the professor which relate to honor or conduct and which are inherent to the classroom or University functions.
6. Know what plagiarism is, as defined under the Honor Code; recognize that it undermines individual and academic integrity; and ensure that it is avoided in both spirit and deed.
7. Understand that the Codes apply at all University activities whether on the main campus or at other locations.
8. Remember that they are representatives of Armstrong State University and that they must always conduct themselves in a manner which brings credit upon themselves and the University.

Faculty Commitments

In accordance with the University Mission Statement, the faculty is responsible for providing an atmosphere that fosters excellence in learning and student achievement. Faculty responsibilities to the University are detailed in the Armstrong Faculty Handbook in Article VII of the Regulations. Other relevant provisions of the Faculty Handbook are as follows:

1. The primary responsibility of a faculty member is the advancement of knowledge through teaching and scholarship. The faculty member is therefore committed to the development and improvement of scholarly competence both in self and in students. (Regulations, Art. III: Principles of Conduct, Sect. A, Para 1.)
2. As a teacher, the faculty member encourages the free pursuit of learning in each student. The teacher exemplifies to students the highest standards of scholarship and integrity and encourages student adherence to such standards. Recognizing the individual worth of each student, the teacher respects the confidential nature of the student-teacher relationship and makes every effort to ensure that any evaluation reflects the true merit of the student. Although the teacher may have subsidiary interests, these interests should never hamper or compromise his or her responsibility to students. (Regulations, Art. III: Principles of Conduct; Sect. A, Para 2.)

3. Academic dishonesty of any kind (giving or receiving unauthorized help on any assignment, test, or paper) is considered a violation of the Honor Code. At the beginning of each term it shall be the responsibility of each teacher to make clear what shall be considered unauthorized help in each course. (Regulations, Art. VI: Faculty-Student Relations; Sect. A.) Additionally, the Faculty is committed to:

1. Reinforcing a sense of honesty and integrity in students; setting an example by treating all students with fairness and courtesy; and respecting diversity in all its forms.
2. Providing clear instructions in written format (e.g., in the syllabus) for each course as to what constitutes violations of the Codes. Additional or supplemental verbal instructions that clarify assignments may be provided at the prerogative of the professor.
3. Designing examinations and assignments that fairly and reasonably measure the student’s level of knowledge; and using examinations as teaching tools as well as evaluation mechanisms.
4. Using examination formats that provide clear instructions and supervision as appropriate for examinations and assessments.
5. Communicating to all students they are expected to know, understand, and adhere to the Honor Code and Code of Conduct.

I. General Policies

A. The University is dedicated not only to learning and the advancement of knowledge, but also to the development of ethically sensitive and responsible persons. It seeks to achieve these goals through sound educational programs and policies governing student conduct that encourage independence and maturity.

B. The University may apply sanctions or take other appropriate action when student conduct interferes with the University’s (a) primary responsibility of ensuring the opportunity for attainment of educational objectives, or (b) subsidiary responsibility of protecting property, keeping records, providing services and sponsoring non-classroom activities such as lectures, concerts, athletic events and social functions.

C. Student representatives shall have an opportunity to participate in the formation and evaluation of all policies, rules, and sanctions pertaining to student conduct.

D. Honor offenses discussed in this Code are not considered to be all-inclusive; each Department or College may also promulgate course- or discipline-specific Honor Code violations supplementing the University Code. Such offenses shall be adjudicated according to the University Code.

E. These rules and procedures apply to all students enrolled in Armstrong courses, regardless of the location or training site at which the course or learning experience is conducted.

F. Some Departments may have additional rules or standards beyond this Code that apply to all students within the Department. It is each student’s responsibility to learn and abide by their respective Department’s separate Code, in addition to the Armstrong Code.

II. Honor Offenses

A. Honor offenses may be of two kinds: (a) general violations and (b) specific course- or discipline-related problems as identified by individual instructors. General Violations
fall under four categories: Plagiarism, Cheating, Fabrication, and Facilitating Academic Dishonesty.

B. **Plagiarism** is the intentional offering of the words, ideas, or computer data, programs and/or graphics of others for one's own in any academic exercise. Examples of plagiarism include (but are not limited to):
1. The offering of another's work, whether verbatim or paraphrased, as original material in an academic paper;
2. The offering of another's original ideas or concepts as one's own, in an academic paper or assessed exercise;
3. The inclusion of another's material in one's own work without appropriate or accurate citation or credit;
4. Offering as one's own materials or data from the Internet or similar computer databases.

C. **Cheating** is (a) the intentional use or attempted use of unauthorized materials, information, or study aids in any academic exercise; and/or (b) intentional actions taken to gain unfair or undue advantage over others. Examples of cheating include (but are not limited to):
1. Receiving or providing unauthorized assistance on any work required to be submitted for any course.
2. Using unauthorized materials or assistance during an examination, including looking at another's paper.
3. Alteration or insertion of any academic grade or evaluation so as to obtain unearned academic credit.
4. Taking, or attempting to take, an examination for another student. This act constitutes a violation for both the student enrolled in the course and for the proxy or substitute.
5. Tampering with another student's work or impairing the professor's ability to assess the academic performance of another student.
6. Using false excuses to obtain extensions of time or other considerations which would or may yield an unfair advantage over other students.
7. Impeding the ability of students to have fair access to materials assigned or suggested by the professor (e.g., removal or destruction of library or other source materials).

D. **Fabrication** is the intentional and unauthorized falsification or invention of any information or citation in an academic exercise. Examples of fabrication include (but are not limited to):
1. The offering of contrived or fraudulently created information as the result of systematic research that was never conducted.
2. The deliberate alteration of legitimate research data to obtain a desired result.
3. The alteration or distortion of laboratory experiments to reach a desired result.
4. The deliberate distortion of another's work or results in order to rebut or undermine the original author's work or concept.

E. **Facilitating Academic Dishonesty** is the intentional help, or attempt to help, another student to violate any provision of this Code. Examples of facilitating academic dishonesty include (but are not limited to):
1. Instigating, encouraging, or abetting plagiarism, cheating, or fabrication in others.
2. Giving perjured testimony before the Student Court.
3. Intimidating or attempting to intimidate witnesses appearing before the Student Court.
5. Deliberately misleading or deceiving University administrators conducting an investigation of a violation.

**III. Reporting Procedures for Honor Offenses**

Academic dishonesty is contrary to the purposes of the University, unfair to other students, and demeaning to those who engage in it. It will not be tolerated at Armstrong State University. A suspected honor violation may be reported in one of two ways:

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1. These definitions are drawn from the publication Code of Academic Conduct, prepared by Gary Pavela (1988)
A. Self-reporting. Students who have committed an honor violation should report themselves to a University official in the Division of Student Affairs or to a faculty member.

B. Reporting by others.
   1. Anyone (faculty member or student) who is aware of an honor violation may tell persons believed to have committed the offense to report themselves to a University official in the Division of Student Affairs or to a faculty member no later than the end of the next class day. After this period, the person who is aware of the violation must inform either a University official in the Division of Student Affairs or a faculty member.
   2. Anyone (faculty member or student) who is aware of an honor violation may report the offense directly to a University official in the Division of Student Affairs without informing the accused.
   3. When the Division of Student Affairs receives a report of a possible honor offense in some manner other than in person (e.g., in writing or voice mail), the Division of Student Affairs shall expeditiously advise the person reporting the alleged violation that the Division of Student Affairs has received the report.
   4. Anyone wishing to report a suspected violation may come to the Division of Student Affairs or to the Office of the Vice-President for Academic Affairs for assistance.

IV. Adjudication Procedures for Honor Offenses

If the severity of the offense, in the studied opinion of the faculty member, is of a magnitude to warrant suspension or expulsion from the University, formal adjudication procedures involving a hearing before the Student Court are required. Lesser offenses may be handled through an informal process in which the faculty member and the student jointly agree to resolve the issue. Student grades for an individual assignment and/or for the overall course will be held in abeyance until any appeals are concluded and the final decision on the case is rendered by the appropriate University official.

Where sufficient evidence exists that a violation of a municipal, state, or federal law has occurred, the Vice-President for Student Affairs shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with the violation of the Code of Conduct if the interest of the University has been compromised by a student’s conduct.

A. Informal adjudication procedures.
   1. When a student becomes aware of another student’s possible academic misconduct and chooses to report it to the professor, or when the professor suspects academic misconduct, the professor should inform the student(s) involved and undertake an investigation of the matter. If the professor is then convinced that a minor violation did occur, the professor and the accused have the option of attempting to resolve the issue informally and in a non-adversarial manner. If both agree, the following procedures may be utilized.
   2. For an informal and non-adversarial adjudication the following criteria pertain:
      a. The offense must not rise to the level of a major violation in which expulsion or suspension is a potential penalty.
      b. The faculty member will provide the student with written notice of a scheduled meeting at least three calendar days (excluding weekends) prior to the meeting. The purpose of the meeting will be to review and discuss the charges before a final decision is reached.
      c. A neutral observer may be present at the request of the faculty member to facilitate the process so that relevant information from each party may be heard and evaluated.
      d. Documentary evidence and written statements may be relied upon by the faculty member, as long as the student is allowed to respond to them at the meeting. Students may also be allowed to bring relevant witnesses.
      e. If the accused admits to the violation, the professor and the student may then resolve the problem in a manner acceptable to both. If the accused denies the violation, or does not accept the sanction(s) determined by the professor, then the case must be referred to the Division of Student Affairs within twenty-four hours.
      f. Should the faculty member conclude that there was no violation of the Honor Code, the case is closed.
g. Upon conclusion of the process, the faculty member and student must both sign and date the appropriate University form, detailing the specific offense(s) and the penalty assessed. Each party will retain a copy and the original shall be deposited with the Vice-President for Student Affairs to assure that repeat offenders are penalized accordingly.

h. The student and the professor shall both be permitted a grace period of seventy-two hours in which to consider the process and penalty. Within that period, either may revoke the decision to accept the informal process and/or the penalty.

i. Should either party exercise the right of revocation, the case will then automatically be transferred to the Vice-President for Student Affairs for formal proceedings.

j. If the alleged violation occurs during final examinations, a grade of Incomplete shall be issued until the matter is resolved.

3. It is strongly recommended that the faculty member advise and consult with the department head (or College dean, if appropriate) throughout the process.

B. Formal adjudication procedures for honor offenses.

1. If the accused opts for a hearing before the Student Court, or if the involved faculty member deems that the alleged offense is of sufficient severity to merit a major sanction, the following procedures pertain:
   a. The Vice-President for Student Affairs shall conduct an investigation into the alleged offense solely to determine whether there exists a sufficiency of cause or evidence to merit a continuation of the proceedings. In this investigative stage, the Vice-President for Student Affairs shall follow the standing policies established within the Division of Student Affairs for this purpose.
   b. If the Vice-President for Student Affairs determines that the evidence available is insufficient, or is likely to be insufficient, to enable the Student Court to reach a reasonable conclusion as to guilt or innocence, the Vice-President for Student Affairs may, in accordance with established policies, recommend against further proceedings.
   c. The above notwithstanding, the faculty member in whose class the alleged offense occurred shall have the right to have the case referred to the Student Court regardless of the investigatory conclusions of the Vice-President for Student Affairs.
   d. If the alleged violation occurs sufficiently late in the term to preclude resolution of the issue prior to the end of the term, a grade of Incomplete shall be issued until the matter is resolved.

2. If the investigation by the Vice-President for Student Affairs determines there is sufficient cause or evidence to enable the Student Court to reach a reasonable conclusion as to the guilt or innocence of the accused, the case shall be forwarded to the Student Court.
   a. The accused will be notified in writing by the Student Court or its designated representative of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against them. This notification shall occur no fewer than five calendar days prior to the date of the Student Court hearing.
   b. The Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
   c. A written copy of the Court’s decision shall be given to the student concerned and to the Vice-President for Academic Affairs as a recommendation for administrative action.
   d. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.

C. Procedural Rights of Students Before the Student Court.

1. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Vice-President for Student Affairs at least five calendar class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.
2. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings except to advise the client. It is customary, but not required, that the advisor will be drawn from the University community.

3. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.

4. The accused may not be made to bear witness against themselves. The Court may not take the refusal of the accused to testify as evidence of guilt, but this proviso does not give the accused immunity from a hearing or from recommendations reached in a hearing simply because the accused does not testify.

5. The accused shall have access to a tape of the hearing upon request of the student.

6. The substantive facts of a case may be re-opened for consideration by the Student Court upon initiation of the accused. The accused shall not be put in double jeopardy.

7. All witnesses will be sequestered from the hearing room during the course of a hearing.

8. Witnesses may not discuss a pending case.

9. The Student Court may, at its discretion, exclude members of the media from proceedings occurring in the academic arena, as permitted by the laws of the State of Georgia.

D. Major Sanctions.

1. Expulsion: The permanent severance of the student’s relationship with the University.

2. Suspension: The temporary abrogation of a student’s relationship with the University.

3. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the University, students may be summarily suspended by the Vice-President for Student Affairs, the Vice-President for Academic Affairs, or the President of the University.

E. Minor Sanctions:

1. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.

2. Written reprimand: a written statement of disapproval to the student which will be retained in the student’s file as long as he remains at Armstrong State University.

3. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include restrictions, reprimands, or other appropriate sanctions.

4. Assignment of a grade of “0” for either the course assignment at issue or for the overall course grade (i.e., complete loss of credit for the course).

V. Conduct Offenses

Personal misconduct which brings discredit upon the student or the University are violations of the Code of Conduct and will not be tolerated.

A. Personal misconduct includes (but is not limited to) the following:

1. Disorderly or obscene conduct or breach of the peace on University property or at any functions sponsored or supervised by the University or any recognized University organization.

2. Physically assaulting, or threatening physical assault against, any member of the faculty, administration, staff, or student body, or any visitor to the campus.

3. Sexual assault (i.e., intentionally making physical contact with the intimate parts of the body of another for sexual gratification without the consent of that person).

4. Sexual harassment (i.e., unwelcome sexual advances or conduct, creation of a hostile environment as perceived by the complainant, or the demand for sexual favors in return for some benefit).
5. Any disruption of a positive learning environment in the classroom or actions which impede the ability of other students in the classroom to learn or the ability of the professor to teach (e.g., blatantly inappropriate personal behavior, cellular phones, pagers).

6. Personal conduct on University property, or at functions sponsored or supervised by the University or any recognized University organization, which materially interferes with the normal operation of the University or the requirements of appropriate discipline.

7. Any act of intimidation or harassment, physical force or violence, or threat of physical force or violence that is directed against any person or group of persons including, but not limited to, acts motivated by ethnicity, race, national origin, religion, gender, sexual orientation, disability, or political beliefs.

8. Theft or abuse of computer facilities or computer time, including but not limited to:
   a. unauthorized entry into, or manipulation or transfer of, a file;
   b. unauthorized use of another individual's identification or password;
   c. use of computing facilities to interfere with the work of another student, faculty member or University official;
   d. use of computing facilities to interfere with a University computing system.

9. No student shall use the University computing facilities to violate Federal, State or local laws or University policy. For purposes of this provision, “computing facilities” includes computers and data and/or voice communications networks.

10. Interfering with, or giving false name to, or failing to cooperate with any properly identified University employees while these persons are in the performance of their duties.

11. Lewd, indecent, obscene conduct or expression.

12. Conduct that is a crime under the criminal laws of Georgia, or of the United States, which takes place on University property or at a University activity.

13. Entering, or attempting to enter, any event which is sponsored or supervised by the University or any recognized University organization, whether on- or off-campus, without credentials for admission (e.g. ticket, identification card, invitation, etc.) or other reasonable criteria established for attendance. At these University functions a student must present proper credentials to properly identified University faculty or staff upon request.

14. The malicious or unauthorized intentional damage or destruction of property belonging to a member of the University community, or to a visitor of the campus.

B. Campus Disruption. Students and faculty have the right to a campus atmosphere which is free of violence, disruption, or distraction. The instigation or incitement of, or the participation in, any act which endangers, disrupts, or otherwise disturbs the rights of students or faculty, is a violation of the Code of Conduct.

1. No student shall assemble on campus for the purpose of creating a riot, destruction, or disorderly diversion which interferes with the normal operation of the University. This shall not be construed so as to deny any student the right of peaceful, non-disruptive assembly.

2. No student or group of students shall obstruct the free movement of other persons about the campus or interfere with the normal operation of the University, including teaching, research, administration, disciplinary procedures, or other University activities.

3. The abuse or unauthorized use of sound amplification equipment indoors or outdoors during classroom hours is prohibited. (Use of sound amplification equipment must have prior approval by the Division of Student Affairs.)

C. Miscellaneous Violations of the Code of Conduct: The following rules and regulations are intended to provide a safe, secure, and productive environment for the enjoyment and appreciation of the University community.

1. Falsification of Records and Contracts:
   a. No student shall alter, falsify, counterfeit, forge, or cause to be altered, falsified, counterfeited, or forged any records, forms or documents used by the University.
b. Violation of contractual agreements between a student and the University, including but not limited to, written financial aid agreements will be subject to discipline under this Code.

2. Explosives:
   a. No student shall possess, furnish, sell, or use explosives of any kind on University property or at functions sponsored by the University or any recognized University organization.
   b. No student shall make, or cause another individual to make, false bomb threats.

3. Fire Safety:
   a. No student shall tamper with fire safety equipment.
   b. The unauthorized possession, sale, furnishing, or use of an incendiary device is prohibited.
   c. No student shall set, or cause to be set, any unauthorized fire in or on University property.
   d. No student shall make, or cause to be made, a false fire alarm.
   e. The possession or use of fireworks on University property or at events sponsored by the University or any recognized University organization is prohibited. Fireworks are defined as any substance prepared for the purpose of producing a visible or audible effect of combustion, explosion, or detonation.

4. Weapons: Students are prohibited from possession of firearms on University property or at events sponsored or supervised by the University or any recognized University organization. The possession or use of any other offensive weapon is prohibited.
   (Exceptions may be made for official use authorized by the University or as authorized by special procedures approved by the Criminal Justice Training Center for its students who are sworn peace officers.)

5. Hazing: All rites and ceremonies of induction, initiation, continued membership, or orientation into University life or into the life of any University group that tend to promote or inflict physical or mental suffering, or include the destruction of public or private property, are prohibited.

6. Joint Responsibility for Infractions: Students who knowingly act in concert to violate University regulations have individual and joint responsibility for such violations.

7. Student Identification Cards:
   a. Lending, selling, or otherwise transferring a student identification card is prohibited.
   b. The use of a student identification card by anyone other than its original holder is prohibited.

8. Theft: No student shall take, attempt to take, or keep in his possession items belonging to students, faculty, staff, student groups, or visitors to the campus without proper authorization.

9. Drugs: The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of substances controlled by Federal or Georgia law is prohibited.

10. Neither alcoholic beverages nor their consumption are permitted in any University facilities, buildings, or property except as provided for in the standing University policy on alcohol. This exemption notwithstanding, under no circumstances is anyone under the age of 21 permitted to consume alcoholic beverages in any University facilities, buildings, or property.

11. Gambling: The playing of cards or any other game of chance or skill for money or other items of value is prohibited.

12. Tobacco: Use of all tobacco products is prohibited on campus.

13. Unauthorized Entry or Use of University Facilities:
   a. No student shall make unauthorized entry into any University building, office or other facilities, nor shall any person remain without authorization in any building after normal closing hours.
   b. No student shall make unauthorized use of any University facility.
D. Repeated Violations: Repeated violations of published rules or regulations of the University, which cumulatively indicate an unwillingness or inability to conform to the Code of Conduct, will result in sanctions of escalating severity.

E. Violation of Outside Law: Violation of local, state or federal law, on or off the campus, constitutes a violation of the Code of Conduct and may result in administrative University sanctions in addition to those of the appropriate law enforcement department.

F. Additional Violations: Under this Code of Conduct, sanctions may be imposed for the violation of any University rule subsequently promulgated by the University.

G. Group Offenses:
1. Offenses by recognized groups fall under the jurisdiction of the Student Activities Committee and shall be referred to that committee for action.
2. Actions of individual members of a group which constitute a conduct offense shall be dealt with under the provision of the Student Code of Conduct.

VI. Reporting Procedures for Conduct Offenses

It is imperative that all conduct violations be adjudicated promptly and fairly. Therefore, all conduct violations will be immediately reported to a University official in the Division of Student Affairs by any person who has knowledge of the commission of any such violation.

VII. Adjudication Procedures for Conduct Offenses

Where sufficient evidence exists that a violation of a municipal, state, or federal law may have occurred, the Vice President for Student Affairs or his or her designee shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with violation of the Code of Conduct if the interest of the university has been abused by a student's conduct.

A. Formal adjudication procedures for conduct offenses. (NB: there are no informal adjudication procedures for conduct offenses; all such violations must utilize the following steps.)

1. The Assistant Dean of Student Integrity shall ensure that the best interests of any accused student are served, regardless of whether disciplinary action is taken, by making sure that the student is advised of his or her rights pursuant to this Article.
2. Where the evidence establishes that a conduct offense may have occurred, the Assistant Dean of Student Integrity or his or her designee shall advise the accused of the charges being considered. The student then has the right to have the offense handled administratively by the Assistant Dean of Student Integrity or other hearing officer designated by the university or to have the case referred to the Student Court.
   a. If the student prefers that the case not be referred to the Student Court, the student shall be required to sign a document waiving the right to such a hearing.
   b. The case will then be adjudicated by a university hearing officer.
3. If the student chooses a hearing before the Student Court, the accused will be notified in writing by the Student Court, or its designated representative, of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against him/her. This notification shall occur no fewer than five calendar days prior to the date of the hearing.
4. If the student chooses to have the case heard by the Student Court, the Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
5. A written copy of the Court's decision shall be given to the student concerned and to the Associate Vice President for Student Affairs or designee as a recommendation for administrative action.
6. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.

7. If a student accused of an infraction refuses to cooperate with the Assistant Dean of Student Integrity or his or her designee or the student refuses to attend the hearing, a hearing may be held in absentia and, if the student is found in violation, sanctions may be imposed as a result of a hearing in absentia.

B. Procedural Rights of Students Accused of a Conduct Violation

1. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Office of Student Integrity at least three class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.

2. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings, except to advise the accused. It is customary, but not required, that the advisor will be drawn from the university community.

3. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to cross-examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.

4. The accused may not be made to bear witness against him or herself. The Court may not take the refusal of the accused to testify as evidence of guilt, but this proviso does not give the accused immunity from a hearing or from recommendations reached in a hearing simply because the accused does not testify.

5. The accused shall have access to a recording of the hearing, upon request of the student.

6. The substantive facts of a case may be reopened for consideration by the Student Court upon initiation of the accused.

7. All witnesses will be sequestered from the hearing room during the course of a hearing.

8. Witnesses may not discuss a pending case.

9. By prior agreement, the accused will be allowed such observers of the hearing as may be commensurate with the space available. Otherwise, to protect the privacy rights of the accused, hearings will be closed, except that the university may also have observers in addition to the advisors to the Student Court.

C. Procedural Rights of Students Filing Complaints of Sexual Harassment or Violence Offenses

For conduct offenses involving sexual harassment or sexual violence, the student filing the complaint has the following rights:

1. The right to present his or her case. This includes the right to adequate, reliable, and impartial investigation of complaints, the right to have an equal opportunity to present witnesses and other evidence, and the right to the same appeal processes as the accused student.

2. The right to be notified of the time frame within which: (a) the Office of Student Integrity will conduct a full investigation of the complaint; (b) the parties will be notified of the outcome of the complaint; and (c) the parties may file an appeal, if applicable.

3. The right for the complaint to be decided using a preponderance of the evidence standard (i.e., it is more likely than not that sexual harassment or violence occurred).

4. The right to be notified, in writing, of the outcome of the complaint. Even though federal privacy laws limit disclosure of certain information in disciplinary proceedings, in cases involving sexual harassment or sexual violence, students filing the complaint:
   a. Must receive information about the sanction imposed if the student is found responsible when the sanction directly relates to the harassed student. This includes no contact orders, transfers to other classes or removal or move in the residence hall.
   b. Cannot be required to abide by a non-disclosure agreement, in writing or otherwise.

D. Major Sanctions

1. Expulsion: The permanent severance of the student's relationship with the university.
2. Suspension: The temporary abrogation of a student's relationship with the university.
3. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the university, students may be summarily suspended pending adjudication by the Associate Vice President for Student Affairs, the Vice President of Student Affairs, or the President of the University.

E. Minor Sanctions
1. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.
2. Written reprimand: a written statement of disapproval to the student which will be retained in the student's file as long as he remains at Armstrong Atlantic State University.
3. Restitution: Reimbursement for damage to or misappropriation of property. This may be in the form of appropriate service or other compensations and may be imposed in addition to other sanctions.
4. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include one or more of the following: restrictions, reprimand, and/or restitution.

VIII. The Student Conduct Committee, the Student Court, and Advisors to the Student Court

A. Student Conduct Committee:
1. The Student Conduct Committee shall be responsible to the faculty for recommending policies relating to the Academic Honor Code and the Code of Conduct, for formulating or approving rules, enforcement procedures, and sanctions within the framework of existing policies, and for recommending changes in the administration of any aspects of the Honor Code and the Student Code of Conduct. The Conduct Committee will also interview and select members for the Student Court.
2. The Committee shall consist of six faculty members, the Vice-President for Student Affairs or his or her designee and four students. The four students will be the President and Vice-President of the Student Court, the President of the Student Government Association, and one student-at-large. The faculty members will be appointed by the senate in accordance with the senate statutes. The Vice-President for Student Affairs shall have voting rights on this subcommittee.
3. The Vice-President for Student Affairs shall assist the Conduct Committee in the development of policy and in the discharge of its responsibilities. He or she shall coordinate the activities of all officials, committees, student groups, and tribunals for student conduct.
4. All regulations or rules relating to student conduct that are proposed by any University official, committee or student group, and for which sanctions may be imposed in the name of the University, must be submitted to the Committee for consideration and review prior to submission to the faculty and the student body. The Committee shall have ten days in which to review the same.

B. Student Court:
1. The Student Court will be selected by the Student Court Selection Committee and will be composed of no less than twelve students. Due consideration will be given to equitable apportionment of such members on the basis of academic class, race, and sex. Students on academic probation may not serve. All appointments will be issued and accepted in writing. Appointments will be made as needed to keep the Student Court staffed to do business in a prompt manner. These appointments may constitute permanent or temporary replacements as the Student Conduct Committee deems necessary.
2. The Student Court will elect a President, Vice-President, and a Secretary from its membership. The President will preside at all meetings. The Vice-President will assume the duties of the President if the President is absent. A quorum of the Court shall consist
of seven members. A two-thirds majority secret ballot vote is required to reach a finding of guilty. Sanctions and other issues may be decided by simple majority vote.

3. Student Court Members shall examine their consciences carefully to determine whether they can, in good conscience, serve on a panel hearing a particular case. In the event that there is any doubt whatsoever, such members shall excuse themselves from duty on the panel in question.

C. Advisors to the Court:
   1. An advisor and an associate advisor to the Student Court shall be appointed by the President of the University.
   2. Ordinarily the advisor will serve in that office for one year only and usually will be succeeded in the position by the associate advisor. Therefore, after the initial appointments, the associate advisor will be appointed each year. The succession of an associate to the advisor position should occur on the last day of Spring Semester. If, for any reason, the advisor is unable to complete his/her term, the associate advisor shall succeed to the office of advisor and another associate advisor shall be appointed by the above procedures. If neither advisor is on campus, a temporary advisor will be appointed.
   3. It shall be the duty of the advisor to consult with the Court and to offer advice to the President and the members of the Court on substantive and procedural questions. The advisor, or the associate advisor in the event the advisor is unable to attend, shall be present at all meetings and hearings of the Court. The advisor may not vote or participate directly in the conduct of hearings before the Court except through the chair, or acting chair of the Court. The advisor should be governed at all times by the principle that a hearing before the Student Court is primarily the responsibility of the students.

IX. Appeals Procedures

A student found in violation shall have five business days from the receipt of notice of the final administrative action by the Office of Student Integrity to appeal to the Associate Vice President for Student Affairs, provided that the basis for the appeal is limited to material procedural irregularities or flaws. The final level of appeal at the institution shall be to the Vice President of Student Affairs. An appeal shall be limited to a review of the record of the initial hearing, supporting documents, and the student’s written appeal. The student must explicitly state why he or she believes an appeal is warranted. Appeals will only be considered for one or more of the following reasons:
   A. To determine whether the original hearing was conducted fairly and in conformity with prescribed procedures;
   B. To determine whether the sanctions or supplementary requirements imposed were appropriate for the violation for which the student was found responsible;
   C. To determine whether new information, not available to the student at the time of the hearing, is relevant to the final decision.

Students filing complaints of sexual offenses such as harassment or violence also have the right to appeal on the same grounds as the accused student; therefore, the same appeals procedures apply.

X. Supervision of the Student Court

A. As an institutional means of responding to reported infractions of the Honor Code and the Code of Conduct, the Student Court is ultimately responsible to the President of the University.

B. The Vice-President for Student Affairs and the Advisors will, in accordance with Article V, Section B.5 of the Statutes in the University Faculty Handbook, provide general supervision of the Student Court and will provide other guidance or services as directed by the President of the University.

C. Taped records of all testimony, and exhibits of evidence which by their nature may reasonably be maintained, shall be held in the Division of Student Affairs.
XI. Revision of the Codes

A. Revision or amendment of misconduct offenses by the Student Conduct Committee will require confirmation by majority vote of those faculty and student members voting and will require that two-thirds of the Committee be present.

B. All amendments establishing additional rules of conduct and/or imposing sanctions shall be placed in writing and issued at least once in an official publication. The University’s failure to comply with these requirements shall be a complete defense to any charge of violation of a rule of which the student has no actual knowledge. A student’s failure to familiarize himself with these additional rules shall not be adequate defense. Any such additional rules shall be posted on the bulletin board in the Memorial College Center for a period of ten days before the effective date thereof.
Appendix II

Armstrong State University Equal Opportunity Discrimination and Harassment Policy

Equal Opportunity

It is the policy of Armstrong State University to provide equal opportunity for all students, employees, and applicants for employment, regardless of race, religion, national origin, age, sex, sexual orientation, war veteran status, or disability. Therefore, it is the policy of this university that all faculty, staff and students have the opportunity to study, work and participate in any program or activity sponsored by Armstrong State University, in an atmosphere and environment free from any form of harassment/discrimination or retaliation.

Discrimination

Federal law provides that it shall be an unlawful discriminatory practice for any employer, because of the age, disability, gender, national origin, race, religion or status as a war veteran, to discharge without cause, to refuse to hire, or otherwise discriminate against any person with respect to any matter directly or indirectly related to employment or academic standing.

Definition of Discrimination and Harassment

Discrimination and harassment is defined as verbal or physical conduct that denigrates or shows hostility or aversion toward an individual because of race, color, religion, gender, sexual orientation, national origin, age, status as a war veteran, or disability, or that of their relatives, friends or associates, and that:

• Has the purpose or effect of creating an intimidating, hostile or offensive work or study environment; or
• Has the purpose or effect of unreasonably interfering with an individual's work or study performance; or
• Otherwise adversely affects an individual's employment or study opportunities.

Examples of harassing conduct include, but are not limited to the following:

• Epithets, slurs, negative stereotyping, or threatening, intimidating or hostile acts that relate to race, color, religion, gender, sexual orientation, national origin, age or disability;
• Written or graphic material that does not serve an academic purpose that denigrates or shows hostility or aversion toward an individual or group because of race, color, religion, gender, sexual orientation, national origin, age or disability and that is placed on walls, bulletin boards or elsewhere on university premises or circulated in the workplace or the classroom.

Definition of Sexual Harassment

Pursuant to Title VII of the Civil Rights Act of 1964 and Title IX of the Educational Amendments of 1972, “sexual harassment” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature when:

• Submission to such conduct is made either implicitly or explicitly a term or condition of an individual's employment or status in a course, program or activity; submission or rejection of such conduct by an individual is used as the basis for employment or educational decisions affecting such individual;
• Such conduct has the purpose or effect of interfering with the individual's work or educational performance; of creating an intimidating, hostile, or offensive working and/or learning environment; or of interfering with one's ability to participate in or benefit from an educational program or activity.

Examples of sexual harassment may include, but are not limited to the following:

• Physical assault which may carry criminal penalties as well.
• Direct or implied threats that submission to sexual advances will be a condition of employment, work status, compensation, promotion, grades, or letters of recommendation.
• Sexual advances, physical or implied, or direct propositions of a sexual nature. This activity may include inappropriate/unnecessary touching or rubbing against another, sexually suggestive or degrading jokes or comments, remarks of a sexual nature about one's clothing and/or body, preferential treatment in exchange for sexual activity, and the inappropriate display of sexually explicit pictures, text, printed materials, or objects that do not serve an academic purpose.
• A pattern of conduct, which can be subtle in nature, that has sexual overtones and is intended to create or has the effect of creating discomfort and/or humiliating another.
• Remarks speculating about a person's sexual activities or sexual history, or remarks about one's own sexual activities or sexual history that do not serve a medical, employment or academic purpose.

Armstrong State University (“the University”) is committed to maintaining a fair and respectful environment for living, work and study. To that end, and in accordance with federal and state law and Board of Regents’ policy, the University prohibits any member of the faculty, staff, student body, or visitors to campus, whether they be guests, patrons, independent contractors, or clients, from harassing any other member of the University community. Any form of harassment will be met with appropriate disciplinary action, up to and including dismissal from the University.

**Definition of Retaliation**

Retaliation is any adverse action taken against an individual(s) for filing an action of discrimination, participating in an investigation, or opposing discriminatory practices. Retaliation is prohibited. Retaliatory action is illegal. Actions taken in retaliation for the filing, in good faith, of complaints of harassment/discrimination are prohibited regardless of whether the claim is determined to be valid or unfounded. Reprisal in any form should be reported to a supervisor or university administrator. Retaliatory behavior will not be tolerated and is subject to disciplinary action by the university that can result in sanctions up to and including termination of employment.

**Examples of retaliatory actions include, but are not limited to:**

• assigning inappropriately low grades.
• giving deflated performance evaluations.
• employment termination.
• punitive scheduling.
• withholding of deserved support for promotion and tenure.
• assigning inadequate and undesirable space.
• undeserved demotion.
• punitive work assignments.

**Amorous or Sexual Relationships**

Armstrong State University's educational mission is promoted by professionalism which is fostered by an atmosphere of mutual trust and respect. Trust and respect are diminished when those in positions of authority abuse that authority or place themselves in a situation of perceived or actual conflict of interest. A conflict of interest is created when an individual evaluates or supervises another individual with whom he or she has an amorous or sexual relationship. Such relationships, even when consensual, may be exploitative, and they imperil the integrity of the work or educational environment. They also may lead to charges of sexual harassment. Thus, complying the University System of Georgia policy 8.2.23, the University prohibits a faculty or staff member, including a graduate teaching assistant from having an amorous or sexual relationships with any student who the faculty or staff member supervises, teaches or evaluates in any way. All employees are prohibited from having an amorous relationship with any other employee if either employee supervises, evaluates, or in any other way directly affects the terms or conditions of the other’s
employment. Any individual who violates this policy is subject to disciplinary action commensurate with the offense, up to and including termination.

There are situations sufficiently complex that judgments may differ as to whether there is or may be a conflict of interest, and individuals may inadvertently place themselves in situations where conflict exists. Accordingly, should a situation arise in which parties who are or have been involved in any amorous relationship come into a position in which they would normally be called upon to evaluate one another, the individual in authority must promptly report this fact to his or her supervisor. The supervisor is responsible for taking steps to ensure unbiased supervision or evaluation results. Should the individual in authority fail to promptly report an amorous relationship with a person the individual in authority evaluates, the individual in authority has violated University policy and is subject to disciplinary action commensurate with the offense, up to and including termination.

Student-to-Student Harassment

Any form of harassment between students, neither of whom is employed by the University, should be treated as a disciplinary matter and should be reported to the Office of Student Affairs.

Responsibility of Students and Employees

All students and employees should report any form of harassment that they experience, observe, hear about, or believe may be occurring. No student or employee should assume that an official of Armstrong State University knows about a specific situation.

Academic Freedom

Academic freedom shall be considered in investigating and reviewing complaints and reports of harassment. However, raising issues of academic freedom will not excuse behavior that constitutes a violation of the law or the University's harassment/discrimination policy.

Processing of Reports and Complaint Definitions

• Equity, Diversity, and Inclusion Officer
  The Chief Diversity Officer is the individual or individuals designated by the President to be primarily responsible for investigating reports and complaints of harassment/discrimination in accordance with the procedure. The Equity, Diversity, and Inclusion Officer must be designated by name, telephone number, and location. The Equity, Diversity, and Inclusion Officer is authorized to designate other individuals to assist with investigating harassment/discrimination complaints and reports as deemed appropriate.

• Decision-making Authority
  The Decision-making Authority is the individual designated to review investigative reports, to make findings whether the harassment/discrimination policy has been violated based upon the investigation, and to determine the appropriate action for the University to take based upon the findings. The Decision-making Authority will be the Vice President and Dean of the Faculty or his /her designee. If the respondent in a harassment/discrimination complaint or report is the Vice President and Dean of the Faculty, the Decision-making Authority will be the President. If the Respondent in a harassment/discrimination complaint or report is the President, the Decision-making Authority will be the Chancellor.

Reports and Complaints

• All reports and complaints of any form of harassment/discrimination will be promptly investigated and appropriate action will be taken as expeditiously as reasonably possible. Complaints and reports of harassment/discrimination should be reported as soon as possible after the incident(s) in order to be most effectively investigated. The University will make reasonable efforts to protect the rights of both the complainant and the respondent. The University will respect the privacy of the complainant, the individual(s) against whom the complaint is filed, and the witnesses in a manner consistent with the University's legal obligations to investigate, to take appropriate action, and to comply with any discovery or disclosure obligations required by law.
The University encourages any person who feels he or she has been harassed to report the incident to the Equity, Diversity, and Inclusion Officer. Any student, faculty member, or employee who knows of, receives information about or receives a complaint of harassment/discrimination should report the information or complaint to the Equity, Diversity, and Inclusion Officer. Administrators and supervisors must report incidents of harassment/discrimination which are reported to them to the Equity, Diversity, and Inclusion Officer in a timely manner.

Investigation and Resolution

- The University's complaint process, outlined herein, is the procedure to be used to end inappropriate behavior, investigate for the purpose of fact finding, and facilitate resolution of complaints involving allegations of harassment/discrimination. However, as part of the complaint process, the Equity, Diversity, and Inclusion Officer may recommend that the complainant and respondent attempt to resolve their differences through mediation. Mediation is not an option for complaints of sexual harassment. The University reserves the right to investigate and resolve a complaint or report of harassment/discrimination and/or discrimination regardless of whether the complainant pursues the complaint. In such cases, the respondent shall be informed of the status of the investigation at reasonable times up until the University's final disposition of the complaint, ensuring that the respondent is able to respond to the substance of the complaint during meetings convened by the Decision-making Authority to consider discipline based upon the substance of the investigative report.
- These procedures do not replace the right of complainants or respondents to pursue other options or remedies available under the law.

Informal Process

The following procedures for informal resolution are optional. The Equity, Diversity, and Inclusion Officer shall determine whether and/or how to proceed. The goal of informal resolution is to stop inappropriate behavior, investigate, and facilitate resolutions, if possible. If a complainant is able and feels safe, he or she should clearly explain to the alleged offender that the behavior is objectionable and request that it cease. The complainant should do so as soon as possible after the incident occurs.

The complainant may utilize the assistance of the Equity, Diversity, and Inclusion Officer. Communication with the alleged offender may be in person, on the telephone, or in writing. If the behavior does not stop, or if the complainant believes some adverse employment or educational consequences may result from the discussion, he or she should go to the next higher level of supervision to document the complaint. The supervisor should report the complaint to the Equity, Diversity, and Inclusion Officer. The Equity, Diversity, and Inclusion Officer will work with the supervisor to facilitate a resolution of harassment/discrimination complaints at the local level when deemed appropriate.

If an allegation of harassment/discrimination is pursued through the University's informal procedure, the Equity, Diversity, and Inclusion Officer must be contacted in order to initiate a complaint. The complaint should be brought as soon as possible after the most recent incident. The Equity, Diversity, and Inclusion Officer will:
- determine whether the complaint is one which should be processed through another university dispute resolution procedure, such as mediation, available to the complainant; if appropriate, the Equity, Diversity, and Inclusion Officer shall refer the complainant to that procedure(s) as soon as possible;
- inform the individual of the provisions of both the informal and formal discrimination/harassment complaint procedures and provide a copy of the complaint procedure;
- inform the person against whom the complaint is being brought of its existence;
- maintain appropriate documentation;
- disclose appropriate information to others only on a need-to-know basis consistent with state and federal law. An informal complaint may be investigated without identifying the complainant, if in the judgment of the Equity, Diversity, and Inclusion Officer, this would
increase the likelihood of satisfactory resolution of the complaint. While confidentiality cannot be guaranteed, care will be taken to keep investigation discussions sufficiently broad to protect the complainant's identity when requested.

If the Equity, Diversity, and Inclusion Officer finds there is evidence that the complained behavior occurred, he/she may use one or more of the following methods (which may also be part of the formal process) to stop the behavior:

- discussing the matter with the alleged offender, informing him or her of the policy and indicating that any inappropriate behavior must stop;
- suggesting counseling and/or sensitivity training;
- conducting training for the unit, division, or department, calling attention to the consequences of engaging in such behavior;
- requesting a letter of apology to the complainant;
- facilitating meetings between the parties; and separating the parties, etc.
- composing a written letter of agreement confirming that respondent has been informed of the policy, identifying and accepting the Equity, Diversity, and Inclusion Officer's resolution of the complaint, and stating that retaliation is prohibited. During the informal process, the Equity, Diversity, and Inclusion Officer may keep the supervisor/administrator informed of the status of the complaint and may seek input from the appropriate supervisor/administrator when implementing corrective action.

If the informal procedures do not resolve the complaint within a reasonable period of time to the satisfaction of the Equity, Diversity, and Inclusion Officer or the Equity, Diversity, and Inclusion Officer feels that additional steps should be taken, he/she should commence the formal procedures unless reasonable delays are deemed appropriate.

**Formal Process**

If a complaint is not resolved through the informal complaint procedures or if the Equity, Diversity, and Inclusion Officer determines that the complaint should be pursued through formal complaint procedures, the formal procedures must be used. The Equity, Diversity, and Inclusion Officer or his/her designee will:

- secure a formal complaint in writing. The complaint must include a detailed description of the allegations upon which the charge is based, a list of possible witnesses as deemed appropriate by the Equity, Diversity, and Inclusion Officer, and the resolution sought.
- notify the respondent in writing within seven (7) working days of the nature of the allegations and include a copy of the harassment policy and process. The respondent may provide a written response to the allegations.
- conduct an investigation of the complaint, including appropriate interviews and meetings. The Equity, Diversity, and Inclusion Officer may convene a committee to assist in conducting the investigation, as needed. Although attorneys are prohibited from participating in interviews and meetings between the Equity, Diversity, and Inclusion Officer and the complainant or other witnesses, they may accompany and provide confidential advice to their client.
- prepare a report to the Decision-making Authority.
- the report will be provided to the complainant and respondent as deemed appropriate in keeping with state and federal law. After receiving the report of the Equity, Diversity, and Inclusion Officer, the Decision-making Authority may, at his/her discretion, meet with either party; request additional information which may include written arguments from the complainant/respondent relating to the allegations of the complaint; or take other measures deemed necessary to reach a decision. The Decision-making Authority will report in writing, within twenty-one (21) working days, to the parties and the Equity, Diversity, and Inclusion Officer, his or her findings as to whether or not the harassment/discrimination policy has been violated. The Decision-making Authority will take into account the surrounding circumstances; the nature of the behavior; the relationship(s) between the parties; the context...
in which the alleged incident(s) occurred; and other relevant facts upon which he/she relied in reaching a decision. If the Decision-making Authority makes the judgment that a violation of policy has occurred he or she will determine the nature and scope of sanctions and when/how to implement sanctions. A written copy of judgment will be given to the Equity, Diversity and Inclusion Officer as custodian of files.

Investigative Data
During the investigation, the Equity, Diversity, and Inclusion Officer will keep confidential to the extent permitted by state and federal law the information gathered during the investigation. The Equity, Diversity, and Inclusion Officer shall exercise due care in sharing identifiable information about students, staff or faculty at all times.

Summary Action
The President or designee may impose a summary suspension prior to the resolution of informal or formal proceedings. However, a summary suspension may be imposed only when, in the judgment of the President, the accused individual's presence on campus would constitute a threat to the safety and well-being of members of the campus community. Before implementing the summary suspension, the accused individual shall be given written notice of the intention to impose the summary suspension and shall be given an opportunity to present oral and written arguments against the imposition of the suspension. If the accused individual is summarily suspended, the formal process should be completed within the shortest reasonable time possible, not to exceed ten (10) working days. During the summary suspension, the accused individual may not enter the campus without obtaining prior permission from the Equity, Diversity, and Inclusion Officer.

University Action
The University will take the appropriate remedial action based on results of the investigation and will follow up as appropriate to ensure that the remedial action is effective. Complainants are encouraged to report any reoccurrences of conduct which were found to violate the harassment/discrimination policy.

The Decision-making Authority will notify the complainant and respondent, in writing, of the results of the formal investigation. Written notice to parties relating to discipline, resolutions, and/or final dispositions is deemed to be official correspondence from the University.

Right to Appeal
Pursuant to this policy, the complainant and the respondent shall have the right to appeal the decision of the Decision-making Authority to the President or his or her designee. In exercising the right of appeal to the President as provided by this procedure, a written appeal must be made within ten (10) working days after written notification of the decision which is being appealed. The President or his or her designee may receive additional information if he or she believes such information would aid in the decision. A decision will be made within a reasonable time and the Equity, Diversity, and Inclusion Officer, the complainant, and the respondent will be notified of the decision. During the time of the appeal and review, disciplinary action taken as a result of the original complaint, may be implemented and enforced.

Education and Training
The University will provide a full range of education and training programs to promote awareness and prevention of harassment/discrimination. Education and training programs also should include education about the University's harassment/discrimination policy as well as training for responsible personnel in conducting investigations, management and implementation of the complaint procedure.

Dissemination of Policy and Procedure
Information regarding this policy will be provided during student orientation, during employee orientation, and to all individuals who volunteer in various positions on campus. Copies of the
policy will be readily available in all departments and units of the University. In addition, the policy will be posted on the University's website.

Record Retention
During an investigation of a complaint, and, upon the completion of an investigation, the custodian of the file shall be the Equity, Diversity, and Inclusion Officer. Future access to any file shall be provided in keeping with the Georgia Open Records Act and the Family Educational Rights and Privacy Act.

U.S. Equal Opportunity Commission
All employees are encouraged to use Armstrong’s internal processes and policies to resolve their complaints of discrimination and/or harassment. If the internal process as described above is not an option the local EEOC office may take the complaint. The contact information for the local office is below:

U.S. Equal Employment Opportunity Commission
7391 Hodgson Memorial Drive, Suite 200
Savannah, GA 31406
Phone: 1-800-669-4000
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<td>* All dates subject to change</td>
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Where to Write or Call

Specific information may be obtained by calling the numbers below, or by writing to the offices listed below and adding: Armstrong State University, 11935 Abercorn Street, Savannah, GA 31419-1997. Also see our website at www.armstrong.edu.

**ACADEMIC ADVISEMENT**  
Office of Academic Orientation and Advisement  
912-344-2570

**ADMISSIONS**  
912-344-2503  
1-800-633-2349

**ALUMNI**  
Office of Alumni Affairs & Annual Fund  
912-344-2541

**ATHLETICS**  
Athletics Department  
912-344-2813

**BUSINESS MATTERS**  
Office of Business Services  
912-344-2506

**CAREER SERVICES**  
Office of Career Services  
912-344-2563

**COUNSELING**  
University Counseling Center  
912-344-2529

**DISABILITY SERVICES**  
Office of Disability Services  
912-344-2744

**FINANCIAL AID, GRANTS, LOANS, WORK-STUDY ELIGIBILITY**  
Office of Student Financial Aid  
912-344-3266

**GENERAL ACADEMIC AND FACULTY MATTERS**  
Provost & Vice President for Academic Affairs  
912-344-2589

**GIFTS, GRANTS & BEQUESTS**  
Office of Alumni Affairs & Annual Fund  
912-344-2541

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1-800-633-2349

**HISPANIC OUTREACH & LEADERSHIP**  
912-344-2652

**INTERNATIONAL EDUCATION**  
Office of International Education  
912-344-3128

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912-344-2570

**MULTICULTURAL AFFAIRS**  
Office of Multicultural Affairs  
912-344-2582

**PUBLIC RELATIONS**  
Office of Marketing and Communications  
912-344-2569

**SAFETY**  
University Police  
912-344-3333

**STUDENT HOUSING**  
Office of Housing and Residence Life  
912-344-2940

**TESTING**  
Testing Services  
912-344-2582

**TRANSCRIPTS**  
Office of the Registrar  
912-344-2576

**TUITION, PAYMENT OF BILLS, REFUNDS**  
Bursar’s Office  
912-344-3243

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While the provisions of the catalog will generally be applied as stated, Armstrong State University reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available in the Offices of the Registrar, the Vice President for Student Affairs, and the academic deans. It is especially important that students note that it is their responsibility to keep themselves apprised of current graduation requirements for their particular degree programs.

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