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## Armstrong Atlantic State University 1999-2000 Catalog

Armstrong Atlantic State University

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Francis Thorne  
Biology



AASU

ARMSTRONG ATLANTIC  
STATE UNIVERSITY

**1999-2000 CATALOG**





**AASU**

ARMSTRONG ATLANTIC  
STATE UNIVERSITY

**1999-2000 CATALOG**

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA  
SAVANNAH, GEORGIA



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## President's Message

With pride and enthusiasm, let me welcome you to Armstrong Atlantic State University. Indeed, please think of this catalog as a letter of introduction to the challenges and rewards of a higher education at AASU.

Long ago, Socrates celebrated “the pleasures that accompany the pursuit of learning” — not only the learning that prepares us for a fulfilling career but the studies that in themselves help to enrich our lives. At Armstrong Atlantic, we take pride in the high standards that we have set for you out of deep respect for the high expectations you have set for yourself.

We are here to help you steer your life, to navigate the future. And in our classrooms, laboratories, rehearsal rooms, technology centers, and playing fields, we share your enthusiasm for the journey.

Frank A. Butler  
Interim President

## Degree Programs

Bachelor's and master's degrees, as well as minors, certificates, and associate degrees available at Armstrong Atlantic State University are listed by subject in the chart below. For program listings by college and department, see elsewhere in the catalog Academic Policies and Programs and sections for each college, department, and the graduate school.

SUBJECTS	Minor	Associate	Bachelor's	Bachelor's Leading to Teaching	Master's	Certificate	Courses Only
Anthropology	X						
Archaeology, Historical	X						
Art	X		X	X			
Astronomy							X
Biology	X		X	X			
Business Education (with Savannah State University)				X	X		
Chemistry	X		X	X			
Communications (degree in English)			X				
Computer Science	X		X				
Crime, Transnational	X						
Criminal Justice	X	X	X		X		
Criminal Justice - Corrections		X					
Criminal Justice - Law Enforcement		X					
Dental Hygiene		X					
Dental Hygiene Education			X				
Drama/Speech - see also Theater	X		X				
Economics	X		X				
Education - Early Childhood				X			
Education - Elementary					X		
Education - Exceptional						X	
Education - Middle Grades				X	X		
Education - Secondary - see content areas							
Engineering							X
Engineering Studies	X						
English	X		X	X			
English - Communications			X				
English Education					X		
Film	X						
French	X						
General Studies		X	X				
Geography							X
Geology							X
German	X						
Gerontology						X	
Health & Physical Education				X			
Health Science			X				
Health Services Administration					X		
History	X		X	X	X		
International Studies	X						
Journalism							X
Latin	X						
Law Enforcement - Basic						X	
Legal Studies	X						
Liberal Arts - see General Studies							
Library Media	X						

SUBJECTS

	Minor	Associate	Bachelor's	Bachelor's Leading to Teaching	Master's	Certificate	Courses Only
Linguistics	X						
Mathematical Sciences	X		X				
Mathematics Education				X			
Medical Technology		X				X	
Mental Health	X						
Meteorology							X
Military Science	X						
Music		X	X				
Naval Science	X						
Nursing		X		X			
Oceanography							X
Organizational Psychology	X						
Philosophy	X						
Physical Education - see Health and Physical Education							
Physical Science	X						
Physical Therapy		X*		X			
Physics, Applied	X	X					
Political Science	X	X	X				
Political Science - Public Administration	X	X					
Psychology	X	X					
Public Health				X			
Public History	X						
Radiation Therapy						X	
Radiologic Sciences		X					
Respiratory Therapy		X					
Russian Studies	X						
Science Education - Broadfield				X			
Social Science Education - Broadfield				X			
Social Science Education - History			X				
Social Science Education - Political Science			X				
Sociology							X
Spanish	X	X	X				
Special Education - Behavior Disorders				X			
Special Education - Behavior Disorders (degree in Psychology)			X				
Special Education - Learning Disabilities				X			
Special Education - Speech-Language Pathology				X			
Speech-Language Pathology		X					
Teacher Education	X						
Theater - see also Drama/Speech	X						

\*Bachelor's degree awarded at completion of master's.

## 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.

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 Atlantic State University Catalog is no exception — may have other uses as well.

The many hours you spend earning a degree at Armstrong Atlantic 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 offer flexible scheduling.
- Pre-professional programs in business, dentistry, forestry, medicine, pharmacy, and veterinary medicine are available.
- Information about the university and its programs — and even class registration — is available on line.
- The graduate school offers advanced degrees in many fields, and has its own catalog.
- Off-campus classes are available in Hinesville and Brunswick, and some degrees may be earned while attending classes on those campuses.
- Students may study abroad while earning academic credit at Armstrong Atlantic.
- Non-credit, continuing education classes in a host of subjects are offered to the general public every term.
- Armstrong Atlantic engineering students can complete degrees from Georgia Tech in civil and computer engineering without leaving Savannah.
- Services for students range from academic advisement and placement testing to computing and writing assistance.
- Library holdings number over 800,000 items.
- More than thirty 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 and departments; 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 Atlantic State University. Keep it handy and use it often.

# The University and the Community

## Mission Statement

Armstrong Atlantic State University was founded in 1935 as a city college and continues to fulfill an urban mission, teaching a diverse population of traditional and non-traditional students. Throughout its history, Armstrong Atlantic has shared its creative, scholarly, technical, and leadership expertise with individuals and organizations throughout southeast Georgia, and has been designated as a regional health professions education center. Offering a broad range of programs in arts and sciences, teacher education, health professions, and graduate studies, Armstrong Atlantic provides all students with a firm foundation in the liberal arts and anchors its academic excellence in its baccalaureate and graduate programs.

Armstrong Atlantic State University shares with other institutions in the University System of Georgia the following common mission:

The mission of the University System of Georgia is to contribute to the educational, cultural, economic, and social advancement of Georgia by providing excellent undergraduate general education and first-rate programs leading to associate, baccalaureate, masters, professional, and doctoral degrees; by pursuing leading-edge basic and applied research, scholarly inquiry, and creative endeavors; and by bringing these resources to bear on the economic development of the state and the continuing education of citizens through public service.

While the core teaching, research and scholarship, and service functions differ by institutional type, the campus life of every institution in the University System of Georgia will be characterized by:

- a supportive campus climate, necessary services, and leadership and development opportunities, all to educate the whole person and meet the needs of students, faculty, and staff;
- cultural, ethnic, racial, and gender diversity in the faculty, staff, and student body, supported by practices and programs that embody the ideals of an open, democratic, and global society;
- technology to advance educational purposes, including instructional technology, student support services, and distance education;
- collaborative relationships with other University System of Georgia institutions, state agencies, local schools and technical institutes, and business and industry, sharing physical, human, information, and other resources to expand and enhance programs and services available to the citizens of Georgia.

Armstrong Atlantic State University shares with the other state universities of the University System of Georgia the following core characteristics or purposes:

- a commitment to excellence and responsiveness within a scope of influence defined by the needs of an area of the state, and by particularly outstanding programs or distinctive characteristics that have a magnet effect throughout the region or state;
- a commitment to a teaching/learning environment, both inside and outside the classroom, that sustains instructional excellence, serves a diverse and university-prepared student body, promotes high levels of student achievement, offers academic assistance, and provides developmental studies programs for a limited student cohort;
- a high quality general education program supporting a variety of disciplinary, interdisciplinary, and professional academic programming at the baccalaureate level, with selected master's and educational specialist degrees, and selected associate degree programs based on area need and/or inter-institutional collaborations;
- a commitment to public service, continuing education, technical assistance, and economic development activities that address the needs, improve the quality of life, and raise the educational level within the university's scope of influence;
- a commitment to scholarly and creative work to enhance instructional effectiveness and to encourage faculty scholarly pursuits, and a commitment to applied research in selected areas of institutional strength and area need.

The primary mission of Armstrong Atlantic State University is to foster in its students abilities essential to being knowledgeable, thoughtful, responsible, and creative members of society. For its population of traditional and nontraditional students, Armstrong Atlantic strives to promote academic excellence and provide appropriate access to its programs, including magnet offerings in health professions, teacher education, public history, criminal justice, and transfer programs in engineering studies. Moreover, Armstrong Atlantic shall:

- augment traditional classroom instruction and provide student-centered learning through the integration of new technologies and innovative methods of course delivery;
- improve and expand access through distance learning, flexible course scheduling, and development of off-campus sites;
- respond to student needs through accessible faculty and administrators, an effective student-teacher ratio, and appropriate learning support;
- foster a deepened understanding of diverse world views and experiences through the examination of multicultural and international perspectives across the curriculum and activities that encourage respect for human worth;
- offer activities to students that help to prepare them for the work place or for further study through a wide array of leadership programs, experiential training, and entrepreneurial opportunities;
- optimize resources and expand educational opportunities for citizens throughout Georgia through the interchange of faculty and programs and in partnerships with other educational institutions, especially other units of the University System.

In shaping its vision for the twenty-first century, Armstrong Atlantic has assumed a leadership role in the application and integration of new educational technologies. The institution aspires to build upon its already excellent curricular and urban oriented research programs and expand its magnet offerings, especially in the sciences. A planned student body profile based on admissions, progressions, and graduation expectations shall enhance institutional effectiveness. Finally, Armstrong Atlantic assumes responsibility for initiating collaborative efforts and for attracting and cultivating credit and non-credit programs designed to meet societal needs in such areas as economic development, health, cultural life, and technological advancement.

*Approved by the Board of Regents of the University System of Georgia – June, 1996*

## Accreditation

Armstrong Atlantic State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award associate, baccalaureate and master's degrees.

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

**Computer Science** - by the Computer Science Accreditation Commission.

**Dental Hygiene** - by the Commission on Dental Accreditation of the American Dental Association for the period 1995-2001.

**Medical Technology** - by the National Accrediting Agency for Clinical Laboratory Sciences for the period 1985-2004.

**Music** - by the National Association of Schools of Music for the period 1995-2005.

**Nursing (Baccalaureate Degree)** - by the National League for Nursing Accrediting Commission for the period 1983-1999.

**Radiologic Sciences** - by the Joint Review Committee on Education in Radiologic Technology for the period 1984-1999.

**Respiratory Therapy** - by the Committee on Accreditation of Allied Health Educational Programs for the period 1997-2002.

**Teacher Education Programs** - by the National Council for the Accreditation of Teacher Education.

## Degree Programs

Degree programs are listed by subject at the front of this catalog; by college and department at the end of the section on Academic Policies and Programs; and at the beginning of the section for each college and department. Minor concentrations and certificate programs are noted at the front, and requirements for all degrees described in detail in the departmental listings.

## Evening Programs and Weekend College

To accommodate students who are employed during the day, all core curriculum courses and many upper-division courses are offered in the late afternoon and evening. At present, the following degree programs are available to students who attend classes exclusively in the evening: associate of arts; associate of applied science in criminal justice; baccalaureate in English (communications), computer science, criminal justice, economics, English, general studies, history, mathematics, political science, public administration, and psychology.

Although evening offerings are expanded annually, 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.

Weekend College complements the evening programs of the university. Saturday classes include core curriculum courses in art, composition, economics, history, philosophy, physical education, physical science, political science, psychology, sociology, and speech communications. Weekend College serves the growing number of students who need a non-traditional schedule to allow them to make progress toward graduation. The office of weekend and off-campus programs oversees the development and promotion of the evening and weekend programs.

## Armstrong Atlantic State-Savannah State Cross Enrollment Program

Students enrolled in *at least 6 semester hours* at Savannah State University or at Armstrong Atlantic State University have the privilege of taking courses at the other university without paying an additional fee. However, more than one half of the semester hours must be taken at the home university. Students enrolled at Armstrong Atlantic who are majoring in business education may take more than half of their courses at Savannah State — see the College of Education section of this catalog.

## Pre-Professional Programs

Armstrong Atlantic State University offers courses appropriate for the first two years of baccalaureate programs — such as business, engineering, forestry, industrial management, and pharmacy — not offered among its degree programs, and offers the pre-professional study appropriate for dentistry, law, medicine, veterinary medicine, and other professional fields.

## Regents Engineering Transfer Program

The Regents Engineering Transfer Program (RETP) is a cooperative program between Armstrong Atlantic and Georgia Institute of Technology, allowing qualified students to attend Armstrong Atlantic for the first two years of engineering studies, then transfer to Georgia Tech to complete their bachelor of engineering degree. RETP students transferring to Georgia Tech compete on an equal basis with Georgia Tech students at the junior academic level. To be admitted as RETP students, applicants must meet academic requirements set for the program, and be U.S. citizens with Georgia residency. Specific information on requirements for admission is available in the admissions section of this catalog or from the engineering studies program coordinator in the Department of Chemistry and Physics.

## Georgia Tech Regional Engineering Program

The Georgia Tech Regional Engineering Program (GTREP) is a new, partially “virtual” university that builds on the strengths of the RETP. Through GTREP, students are allowed to



complete Georgia Tech degrees in civil and computer engineering without leaving the Savannah area. Freshman and sophomore classes will be taught by Armstrong Atlantic State University faculty with the final two years to be taught by resident Georgia Tech faculty and innovative distance learning methods. Academic requirements for admission into GTREP are the same as those for RETP. Unlike RETP, GTREP is open to out of state students with U.S. citizenship or permanent resident status.

## **Dual-Degree Programs**

Armstrong Atlantic 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 Atlantic, 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 Atlantic and a baccalaureate degree in the chosen field of engineering from the second school. Contact the associate dean of the College of Arts and Sciences, who is the Armstrong Atlantic coordinator of these dual-degree programs, for additional information.

A dual-degree program in forestry and environmental management with Duke University is available. Students complete three years of academic work at Armstrong Atlantic, then enroll for two subsequent years at Duke. Students who successfully complete the program receive a bachelor of science degree in biology from Armstrong Atlantic State University and a master of science degree in either forestry or environmental management from Duke University. The head of the Department of Biology should be contacted for additional information.

## **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 volunteer and service learning, who is the director of this program.

## **Off-Campus and Distance Learning**

The university offers selected courses at various off-campus sites, including Brunswick Center, Liberty Center (Ft. Stewart and Hunter Army Air Field), and the Coastal Georgia Center. Although most of these courses are taught by university faculty at the off-campus sites, some may be delivered by means of interactive teleconferencing originating from the main campus.

Armstrong Atlantic is an active member of the Georgia Statewide Academic and Medical System (GSAMS). The university oversees the operations of seven interactive distance-learning classrooms, three of them on campus (Gamble 113, Health Professions 136, and University Hall 114) and others at the Brunswick Center, White Bluff Elementary School, the Coastal Georgia Center, and Savannah State University. In addition, the university is developing internet resources to provide a new medium for learning as well as to supplement more traditional forms of research and instruction.

## **Brunswick Center**

Approved by the Board of Regents in 1986 as a cooperative effort among Armstrong Atlantic State University, Coastal Georgia Community College, and Georgia Southern University, the Brunswick Center serves as a consortium dedicated to expanded higher education offerings in and around the Brunswick, Georgia area. The center is located on the campus of the Coastal Georgia Community College. Armstrong Atlantic offers degree programs for a bachelor of general studies,

bachelor of science in education in early childhood education and middle grades education, bachelor of science in nursing, and associate of science in dental hygiene through this off-campus site.

All three participating institutions teach courses which apply toward the degrees, and credit earned from any of these colleges through the Brunswick Center is accepted as resident credit by Armstrong Atlantic State University.

## **Liberty Center**

As a result of a cooperative effort by Armstrong Atlantic State University, Savannah State University, Georgia Southern University, Coastal Georgia Community College, East Georgia College, Fort Stewart, and business, civic, and educational leaders in Hinesville and Liberty County, the Liberty Center was established to offer courses to students in the Liberty County area who would like to pursue higher education locally. The Liberty Center is located at the Fort Stewart Army Education Center. Courses are offered at the center and at other area sites. Core curriculum, learning support, and other courses leading to a wide array of associate, bachelor's and master's degrees are offered by the consortium.

## **Regional Criminal Justice Training Center**

The Armstrong Atlantic State University Regional Criminal Justice Training Center is a regional training site for criminal justice employees, especially those in law enforcement. The region consists of eighteen counties; however, training is made available to all criminal justice employees throughout Georgia. The basic mission of the center is to provide certification classes for law enforcement and jail officers. In addition, there are numerous advanced and specialized courses for higher certification credits. The training center has seven full-time staff members and a large part-time instructor cadre.

## **Public Service Center**

The Armstrong Atlantic 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 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 surveying;
- analysis and consultation on policy, procedure, 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.

## **Continuing Education**

Armstrong Atlantic's Department of Continuing Education provides opportunities for life-long learning for Savannah and the coastal region by offering non-credit (non-degree) courses, seminars, and activities. A variety of programs has been designed to improve professional skills, enhance leisure activities, and foster personal enrichment. The department also coordinates conferences, workshops, and customized training (on a contract basis) for business and industry. Instructors are university faculty or other qualified experts from our region.

Participants in designated continuing education courses may earn continuing education units (CEUs), which are a nationally recognized measure of participation in professional education, training, and development programs. Permanent CEU records are maintained by the registrar's office.

For more information about course offerings and schedules, contact the department.

## Elderhostel

Elderhostel 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 Atlantic State University has been providing Elderhostel since 1986 and now offers more than 85 weeks of programming per year at four sites: the Armstrong Atlantic campus, west Chatham County, historic Savannah, and Tybee Island. Armstrong Atlantic's program is open to applicants from the community, nation, and abroad. Individuals 55 years of age and older are eligible. The program brings in more than 2600 participants annually, contributing to Georgia's status as the second most popular state in the program.

## Location

Armstrong Atlantic students, faculty, and staff find much to enjoy about living in the cosmopolitan city of Savannah, the major urban area in coastal Georgia (population 280,000). The university's 250-acre campus is located in a residential area of the city which promotes a feeling of freedom and security. Leisure activities such as NCAA intercollegiate athletics, intramurals, concerts, plays, and special entertainment provide much to do without leaving campus. But those wishing to venture into the community will find many activities awaiting them.

Savannah, Georgia's founding city, has all the cultural variety of a metropolitan city with the added advantage of the ocean at its back door. The historic past lives in harmony with a vibrant present in Savannah. As a living laboratory for history, Savannah is unsurpassed, yet the Savannah port is one of the busiest on the Atlantic coast. A temperate climate encourages year-round outdoor recreation. Beach and river activities include sailing, boating, water skiing, sunning, and beachcombing. Golf, tennis, fishing, and hunting are also popular, and world-class aquatic and weight-lifting facilities are a short drive from the campus. A resident symphony orchestra, dance and theater groups, and popular entertainers regularly perform at the Chatham County Civic Center. Special celebrations and festivals are scheduled in and around the city throughout the year.

## Office of University Relations

The office of university relations promotes Armstrong Atlantic, its students, faculty, and activities, through interaction with media representatives. The office is responsible for external publications and promotions related to the university, including *Armstrong Magazine* and the alumni newsletter. The office of university relations serves as the liaison between the university and media representatives, and reports media activities to University System of Georgia public relations representatives.

## Office of University Advancement

The office of university advancement houses both alumni affairs and development (which includes the AASU Foundation, Inc.). The office works with graduates, friends, area businesses, corporations, foundations, and other supporters of Armstrong Atlantic by providing a vehicle of communication and fundraising support.

**Alumni Affairs.** The office of alumni affairs serves as a liaison to the alumni association, Armstrong Atlantic graduates, former students, and friends. The office maintains current alumni records, processes alumni membership dues, and circulates university and alumni information. Membership in the association is open to all graduates and former students.

Organized in 1937, the AASU Alumni Association is comprised of graduates and former students of Armstrong Junior College, Armstrong State College, and Armstrong Atlantic 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. Every year the alumni association recognizes individuals who have made outstanding contributions to the university and the association by presenting the Distinguished Alumni Award, the Outstanding Alumni Service Award, the Distinguished Citizen's Award, and the Outstanding Faculty Award.

**Development.** In support of Armstrong Atlantic, alumni and friends can make donations of cash, securities, or other qualifying assets through the AASU Foundation, Inc. Donations are used to respond to challenges and opportunities for growth. The funds provide the university with support unavailable through state appropriations. Gifts are also used to assist students through scholarships and other financial assistance; support outstanding teachers through faculty development awards 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 Atlantic's tradition of academic excellence.

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

# Admissions

Armstrong Atlantic State University welcomes students who wish to pursue a college-level program of study. The office of admissions works hard to make the admissions process an easy one. 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 927-5277 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
- a \$20 nonrefundable application fee
- certificate of immunization (All applicants must submit a University System of Georgia Certificate of Immunization form verifying immunity against measles, mumps, and rubella.)

**Freshman Applicants.** Applicants applying for freshman admission must submit the following additional documentation:

- official high school transcript
- official SAT I or ACT score report
- official GED score report, if applicable

The word "official" indicates that documents must be received directly from the forwarding institutions.

**Transfer Applicants.** Transfer applicants must also submit official transcripts from each institution attended. In addition, applicants must meet one of the following requirements to be considered for transfer admission: (1) Students who have fewer than 30 transferable semester hours must have a transfer grade point average of 1.9 and must also meet freshman admission requirements; (2) Students who have 30 or more transferable semester hours must have a transfer grade point average of 2.0. See additional information under Transfer Admission.

**Transients.** Students enrolled in other colleges or universities may apply to Armstrong Atlantic for temporary admission as transient students. Application for transient admission must be accompanied by a letter of good standing from the dean or registrar of the home institution. The letter of good standing must indicate permission to take specific courses at Armstrong Atlantic State University. Transient students are admitted for one semester. If they wish to remain at Armstrong Atlantic longer than one semester they must submit a new letter of good standing, or must meet all admission requirements for transfer students. Transient students can enroll for no more than three consecutive terms.

Information on delayed (nontraditional), early, international, joint enrollment, outstanding student program, and non-degree student admissions, as well as readmission, is listed under Special Admission Categories.

SAT I applications and testing information may be obtained from the College Entrance Examination Board (Box 592, Princeton, NJ 08540; 609/771-7975; [www.collegeboard.org](http://www.collegeboard.org)). ACT testing materials may be obtained from the American College Testing Program (3355 Lenox Road, NE, Suite 320, Atlanta, GA 33026-1332; 404/231-1952; [www.act.org](http://www.act.org)). An institutional scholastic aptitude test (ISAT) is offered by the office of counseling services at Armstrong Atlantic State University each term. ISAT scores can be used only for admission to Armstrong Atlantic State University. AASU uses recentered SAT scores. All original SAT scores will be recentered for admission to the university.

The CEEB code assigned to Armstrong Atlantic State University is 5012. Exceptions to the SAT and ACT requirements are discussed in the Special Admission Categories section.

## Regular Admission

Applicants must meet all of the following minimum admission criteria to be eligible for regular admission to the university.

- SAT verbal score of 460 or ACT English score of 20
- SAT math score of 430 or ACT math score of 18
- Freshman Index \* of 1920

In addition to meeting the above admissions criteria, applicants graduating, or who would have graduated, from high school within the past five years must meet the requirements of the college preparatory curriculum (CPC) of the Board of Regents.

\* *Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500). The high school grade point average is calculated only on CPC course work required for admission.*

**College Preparatory Curriculum (CPC) Requirements.** CPC requirements are as follows:

### CPC Area (Units)

English (4)

Mathematics (3)

Science (3)

Social Science (3)

Foreign Language (2)

### Instructional Emphasis/Courses

- grammar and usage
- literature (American and world)
- advanced composition skills
- two courses in algebra and one in geometry
- physical science
- two laboratory courses from biology, chemistry, or physics
- acceptable social science courses
- two courses in one language emphasizing speaking, listening, reading, and writing

**Satisfying CPC Deficiencies.** Students must satisfy all CPC deficiencies prior to earning 30 semester hours. In the areas of social science, science, and foreign language, students are required to complete the appropriate courses with a C grade or better. Students receive credit for courses used to satisfy CPC deficiencies, but such credit may not be used to satisfy core curriculum or degree requirements.

Students who are CPC deficient must satisfy the required course work according to established guidelines listed below.

- **English:** Students who complete fewer than the four required units of English will be required to take the college placement examination (CPE) in English and the CPE in reading. Based on a student's score, the student would either be placed in learning support English and/or reading, or be exempted from learning support English and/or reading.
- **Mathematics:** Students who complete fewer than the three required units of mathematics will be required to take the CPE in mathematics. Based on a student's score, the student would either be placed in learning support mathematics, or be exempted from learning support mathematics.
- **Science:** Students who complete fewer than the three required units of science will be required to take an additional three semester hour course in a laboratory science. The course must be in the specific content area(s) in which the student is deficient.
- **Social Science:** Students who complete fewer than the three acceptable units of social science will be required to complete one additional three semester hour course chosen from approved social science courses. The course must be in the specific content area(s) in which the student is deficient.
- **Foreign Language:** Students who complete fewer than two units of the same foreign language will be required to complete one additional three semester hour introductory foreign language course.

Applicants who graduate from non-accredited or unapproved high schools, including home schooled students and GED recipients, will be required to satisfy CPC requirements by passing

the SAT II subject tests. For fall semester 1999, applicants who pass the basic group plus two additional SAT II subject tests will be eligible for admission to the university if all other freshman admission requirements are met. The SAT II subject tests are administered through the College Board.

Basic Group	Passing Minimum Score
English Writing	520
Math IC	500
Math IIC	570
American History and Social Studies	560
Biology	520
<b>Additional SAT II Subject Tests</b>	
Chemistry	540
Physics	590
English Literature	530
World History	540

**Exceptions to the CPC Requirement.** Non-traditional students (see Delayed Admission under Special admission Categories) and students pursuing associate of applied science degrees or the basic law enforcement certificate are exempt from CPC requirements.

## Limited Admission

An applicant must meet two of the following minimum admission criteria to be eligible for limited admission. Limited admission applicants who are eligible will be placed in an applicant pool and considered for admission to the university.

- SAT verbal score of 370 or ACT English score of 15
- SAT math score of 350 or ACT math score of 15
- Freshman Index \* of 1680

\**Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500). The high school grade point average is calculated only on CPC course work required for admission.*

In addition to meeting two of the above admissions criteria, applicants who graduated, or who would have graduated, from high school within the past five years must meet the requirements of the college preparatory curriculum (CPC) of the Board of Regents. Applicants applying for fall semester 1999 may have no more than two CPC deficiencies to be eligible for admission to the university. (See College Preparatory Curriculum Requirements under Regular Admission.)

An applicant who does not qualify for regular admission will be given the Collegiate Placement Examination (CPE) in order to qualify for admission to the university. (A student will be given the CPE if the verbal SAT score is less than 460 - ACT English 20 - or the math SAT score is less than 430 - ACT math 18.) This examination must be taken before a student can register for classes at Armstrong Atlantic.

Students are required to enroll in learning support courses if their CPE scores fall below either the University System of Georgia minimum or the institutional minimum. Students may exit the learning support program by earning passing scores on all required parts of the CPE. If any required part of the CPE is not passed, students will be required to enroll in the appropriate learning support course. Upon successful completion of all required learning support courses and passing the CPE, students will exit the learning support areas (English, reading, and math).

If a required learning support student fails the same learning support course twice, then the student is subject to a one year suspension. If a student fails to complete requirements for a learning support area within three attempts, the student will be suspended and may not be considered for readmission within three years of the suspension. Prior to suspension, the student may be allowed to appeal to the departmental review committee for one additional course. Students are limited to a total of three attempts in each learning support area, including both required and voluntary participation. An "attempt" occurs when a student receives any grade or symbol except W in a learning support course, including both required and voluntary participation.

Students who are required to enroll in learning support classes must have a schedule of classes approved by the learning support counselor or an advisor in that department each term the student registers. For additional information see Learning Support under Special Programs.

## Special Admission Categories

**Delayed (Non-Traditional) Admission.** Delayed (non-traditional) applicants are defined as students who:

- have been out of high school at least five years or whose high school class graduated at least five years ago;
- hold a high school diploma from an accredited or approved high school as specified or have satisfactorily completed the GED;
- have earned fewer than 30 transferable semester hours (45 quarter hours);
- have not attended college within the past five years (or are in good standing at the last college attended, if admitted to that college as non-traditional students). Students who are applying for readmission to Armstrong Atlantic are not eligible.

Applicants admitted as non-traditional students are not required to take the SAT or ACT test, or to fulfill the CPC requirements. However, these applicants will be required to take the CPE and complete any learning support requirements.

**Early Admission.** Armstrong Atlantic State University offers an early admission program for students who have completed their junior year in high school and demonstrated outstanding academic potential. The criteria for admission to this program are the same as those listed for the joint enrollment program. For further information on this program, prospective applicants should consult their high school counselors.

Units of the University System of Georgia are prohibited from accepting transfer credit awarded by any college or university to students enrolled in joint high school and college enrollment programs unless those students have a minimum SAT score of 970 and a high school grade point average of 3.00 (B) on a 4.00 scale.

**International Student Admissions.** Admission of international students is based on academic admissibility, English proficiency, and proof of financial means to study in the United States. International applicants must document their ability to meet the financial requirements for attendance as required by U.S. Immigration regulations. It is recommended that international students begin their attendance at the university in the fall semester. The university also recommends that international students attend an ESL language center prior to enrollment. Please contact the admissions office by writing to Armstrong Atlantic State University, International Support Services, 11935 Abercorn St., Savannah, GA 31419-1997, or call 912/921-5489 to receive an admissions packet or ask questions.

**International students must meet the following requirements before application is made:**

- International students must have completed the equivalent of graduation from a U.S. high school. However, college preparatory curriculum (CPC) requirements do not apply to these students.
- Each applicant must have official secondary (high school) or post secondary (college or university) credentials, certificates, or diplomas mailed to the international support services office at the address above. Official documents must bear authoritative signatures, seals and/or stamps, and should be sent by the institution responsible for issuing such documents. In cases where it is impossible for these credentials to be sent from the institution, or only one set of originals is available to students, they should forward an "attested" copy of the original. The attestation must be done by a proper institution official or by the ministry of education in the home country. A certified original translation must accompany all documents not printed in English. Transfer applicants with credentials from institutions outside of the U.S. are required to have a course by course evaluation from a professional evaluation agency before they are eligible for admission to the university. Please contact the admissions office for an evaluation application.
- All applicants must provide official scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT).



- A student whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and score a minimum of 500 on the written test (or a minimum of 173 on the computer-based TOEFL) for consideration for admission to the university. The TOEFL is not a substitution for the SAT or ACT.
- In addition to meeting the regular admission requirements, international applicants needing student visas must show ability to meet financial obligations of tuition, fees, and living expenses before Certificates of Eligibility (I-20 AB) and acceptance letters will be issued. Current (less than one year old) letters of financial support must accompany the official statements of financial resources. Having sufficient funds for the cost of living and educational expenses is required by U.S. Immigration regulations. There is no financial aid available for international students at Armstrong Atlantic, 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 in the U.S.
- Health insurance is mandatory for all international students on non-immigrant visas enrolled at Armstrong Atlantic State University.

After submission of all completed application forms and all required records, the university will make an admission decision. If an application is approved, the university will send an I-20 form which the international student will use to obtain a student visa.

**Joint Enrollment Admission.** Through this program for superior high school juniors and seniors, students may complete more than two-thirds of the freshman year of college before beginning a regular college career. Students in this program may enroll for college credit in a maximum of two courses each term while completing their junior or senior year of high school.

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. The university will consider students for this program only upon written recommendation of their high school principals or counselors.

Applicants must meet freshman admission requirements and the following criteria to be eligible for joint enrollment admission:

- minimum SAT score of 970 (combined verbal and mathematics sections) or the ACT composite no less than 21;
- minimum cumulative high school grade point average of 3.0 or a numerical average of 80 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);
- completion of the University System of Georgia CPC requirements with the following exceptions:
  - Students with SAT verbal scores of at least 530 (or ACT English of at least 23) who have not completed the final unit of high school English and/or social studies may be permitted to fulfill these high school requirements with the appropriate college courses taken through the joint enrollment program.
  - Students who have not completed the CPC requirements may be admitted through the joint enrollment program if they are enrolled in the necessary high school courses and scheduled to complete the requirements by the end of their senior year.

With the exception of English and social studies courses taken by students with SAT verbal scores of at least 530 (or ACT English of at least 23), college courses may not be used to fulfill both high school CPC requirements and college degree requirements.

**Non-Degree Student Admission.** Applicants who have never attended college and who wish to pursue courses for personal enrichment or advancement may be admitted as non-degree students by permission of the director of admissions. To be considered, an applicant must possess a high school diploma (or have completed the GED satisfactorily) and have been out of high school for a period of seven or more years.

SAT or ACT tests are not required; however, students must take the CPE. Applicants admitted as non-degree students may earn a maximum of ten semester credit hours (including institutional credit) before being required to fulfill any learning support requirements. To enter a degree

program, fulfillment of all beginning freshman requirements is necessary. Non-degree students must satisfy all prerequisites before enrolling in courses.

**Outstanding Students Admission.** Applicants who demonstrate very high academic ability by achieving a composite SAT I (verbal + math) score in the upper five percent of national college-bound seniors according to the most recent report from the College Board and who show other evidence of college readiness will be admitted as outstanding students. (An ACT score which is equivalent to this SAT I score can also be used.) Students admitted under this admissions category are not required to meet the Freshman Index admissions requirement. Outstanding students must satisfy any CPC deficiencies in areas other than English or mathematics through college level course work.

**Post Secondary Options Program.** Students who meet the requirements for early admissions or joint enrollment admissions and who are enrolled in an accredited public high school may apply for the post secondary options program. This program is designed to allow high school students the opportunity to enroll in college level courses to satisfy high school requirements while also earning college level credit. Students enrolled in this program will have matriculation fees waived but must pay all other student fees. Applicants must also submit a post secondary options application form before they are accepted into this program.

**Readmission.** Students who have not been enrolled at Armstrong Atlantic for three consecutive semesters must apply for readmission on a form provided by the registrar's office. Former students who have not attended another college since leaving Armstrong Atlantic 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 Atlantic must meet transfer admission requirements as listed in the catalog in effect at the time of return. All readmitted students must follow semester requirements.

**Readmission of Learning Support Students.** After being placed on learning support suspension, students who do not take any college work for three years may appeal for readmission to the dean of academic and enrollment services. Such students may be retested with the CPE in any unsatisfied area and readmitted if they meet the institutional criteria for exemption from all areas of learning support. Otherwise, students may appeal for readmission. Students are subject to individual evaluation in order to determine whether they have a reasonable chance of success. Students who have not been placed on learning support suspension and who have not taken any college work for three years are readmitted and then retested with the CPE in any unsatisfied area. They may be exempted from all areas of learning support but otherwise are placed according to their CPE retest scores. All retested students (if readmitted) have up to three additional attempts per learning support area, and are restricted to the twenty hour credit limit including credit hours earned during previous enrollments. That is, students who are still required to take a learning support course after completing twenty semester hours may register only for required learning support courses.

## Transfer Admission

Applicants who have previously attended regionally accredited institutions of higher education are considered transfer students and must meet transfer admission requirements.

A transfer applicant who has completed fewer than 30 transferable semester hours (45 quarter hours) of core curriculum or whose only attendance has been at a regionally accredited technical college in a "Non-College Transfer Program" will be required to meet freshman admission requirements (including the submission of official transcripts from each institution attended). Applicants who graduated from high school within the past five years are also required to meet CPC requirements. Transfer students who transfer from another University System of Georgia institution will retain their CPC requirements as determined by the sending institution.

Transfer applicants will not be considered for admission unless transcripts of the colleges or universities last attended indicate academic eligibility to return to those institutions. Any transfer applicant who is not academically eligible to return to the last institution attended will be denied admission to the university. Transfer applicants may appeal this decision by completing an appeal

form and submitting this form to the dean of academic and enrollment services. The admissions and academic standing committee meets each term to review admission appeals.

**Transfer Admission and Learning Support.** Students transferring from institutions outside of the University System of Georgia may be required to take the CPE if they have not completed 30 semester hours of transferable core curriculum courses and have not completed CPC requirements. Transfer applicants from within the university system who have learning support requirements, but have not yet exited the required areas of learning support, will not be considered for admission. Students who have been suspended from Armstrong Atlantic without completing learning support requirements are not exempt from these requirements through transfer of course credit unless they are eligible for transfer admission under Armstrong Atlantic's regular transfer admission policies.

**Academic Standing and Grade Calculations.** Armstrong Atlantic's academic standing policy will be used to determine an applicant's entering academic standing. Transfer applicants who are academically eligible to return to the college or university last attended, yet fall below the required overall grade point average as indicated by Armstrong Atlantic's academic standing policy, will be admitted on good standing with warning. Transfer students admitted to the university by permission of the admissions and academic standing committee will enter on academic probation.

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 Atlantic's academic standing policy. For details, see Academic Standing in the section on Academic Policies and Programs.

All previous college credit is included in the calculation of a student's overall grade point average at Armstrong Atlantic State University (including D and F grades). Letter grades transfer at face value. Armstrong Atlantic 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, until courses are repeated, or until previous institutions indicate that their policies include no penalties for incompletes. I grades will revert to Fs in accordance with university policy if not resolved by midterm of the second term of attendance at Armstrong Atlantic. 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. Transfer quarter hours will be converted to semester hours at a ratio of 1:1.5 (i.e., 5 quarter hours will convert to 3.3 semester hours).

**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. Official evaluations of acceptable college credit awarded will be mailed to transfer students when official transcripts have been received from all institutions previously attended. Student transfer evaluation will be completed prior to or during the student's first term of attendance. Transfer credit may be accepted from degree granting institutions that are accredited at the collegiate level by their appropriate regional accrediting agency. No transfer credit will be awarded from institutions not regionally accredited. Students may appeal individual course decisions.

An applicant transferring from an institution which is not a member of a regional accrediting agency must achieve a C average on his or her first fifteen semester hours of work at Armstrong Atlantic in order to be eligible to continue. At that point, the student may request a review of prior credit earned at a non-accredited institution as it would apply to a chosen degree program. This review process begins in the registrar's office. In certain areas, students may be required to validate credits by examination. In computing cumulative grade point averages, only the work attempted at Armstrong Atlantic will be considered.

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

Armstrong Atlantic State University reserves the right to refuse to accept any or all of the credits from any high school or other institution, notwithstanding its accredited status, when the

university determines through investigation or otherwise that the quality of instruction at such high school or institution is, for any reason, deficient or unsatisfactory. The judgment of the university on this question will be final.

**Meeting Degree Requirements.** Transfer students must meet all applicable requirements under the section on General Degree Requirements to graduate from Armstrong Atlantic State University.

If core curriculum requirements in areas A,B,C,D, or E have been completed at another University System of Georgia institution, each completed area will be accepted as having met the respective area requirement at Armstrong Atlantic. A department may require a student to enroll in a core course that is required for a specific major if that course was not taken to satisfy the core area requirement.

Transfer students who have not yet completed the required English composition courses in area A of the core curriculum should make an appointment to meet with the composition coordinator for an English placement interview prior to first registration. The coordinator will assist the student in determining placement in the appropriate composition course(s), evaluating other English course credits, and reviewing the Regents' Test requirement.

Transfer students from outside the University System of Georgia must exhibit satisfactory knowledge of Georgia government through a test on Georgia's constitution and government or by satisfactorily completing an equivalent course. This test is given on campus every term. Completion of a course in American government does not satisfy this requirement.

## Credit by Examination

Armstrong Atlantic State University may grant up to one-fourth of the credit required in a college degree for the examinations and scores below:

### Advanced Placement (AP)

- Biology – 4
- Calculus AB – 3
- Calculus BC – 3
- Chemistry – 3
- Computer Science AB – 3
- English: Language and Composition or  
Literature and Composition – 3
- French Language or French Literature – 3
- German Language – 3
- History-United States – 3
- Latin – 3
- Spanish Language or Spanish Literature – 3

### SAT II: Subject Tests

- American History – national average

### Regents College Examinations

- Statistics – 45

### College-Level Examination Program (CLEP)

- History of the United States I – 47
- History of the United States II – 46
- Analyzing and Interpreting Literature  
with Essay – 50
- Calculus with Elementary Functions – 45
- College Algebra – 50
- College Algebra-Trigonometry – 54
- College-Level French Language – 42C
- College-Level German Language – 36C
- College-Level Spanish Language – 45C
- Freshman College Composition  
with Essay – 49
- Humanities – 450
- Introductory Sociology – 47
- Natural Sciences – 450

### DANTES Subject Tests

- Criminal Justice – 49
- General Anthropology – 47

These guidelines are subject to change without notice. Academic departments select examinations and determine passing scores which follow the test titles. The letter C following a score denotes conditional credit and means that an additional requirement must be satisfied before credit hours will be awarded. For example, the award of credit for the college-level Spanish language is contingent upon passing the next course in sequence with a C or better. 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. A brochure published by the Division of Student Affairs lists equivalent courses, any conditions for award of credit, and test dates.

For additional information, please make inquiry to the admissions office or the Division of Student Affairs.

## College Credit for Military Experience and Training

Transfer applicants who wish to have their military experience and training evaluated for college credit should consult with advisors in their major departments to determine if credit for military experience is appropriate and applicable to specific degree program requirements. Students should present official documentation of experience and training (Army/American Council on Education Registry — AARTS — transcript for US Army personnel, and Community College of the Air Force transcript for Air Force personnel) to the admissions office and their academic advisors for evaluation of degree-related experience and/or training.

Based on a minimum of one year of continuous active duty, veterans may receive three semester hours of credit for physical education activities. Veterans should submit a DD Form 214 and active duty personnel should submit a DD Form 295 to the admissions office for verification.

## Certificate Programs

Armstrong Atlantic State University offers several certificate programs that have specific admission requirements in addition to those of the university. Please refer to the appropriate area in this catalog for details.

- Basic law enforcement certificate—see Special Programs.
- Gerontology certificate—see Department of Health Science.
- Post baccalaureate medical technology certificate—see Department of Medical Technology.
- Post baccalaureate radiation therapy certificate—see Department of Radiologic Sciences.

## External Degree Programs

Applicants who wish to earn a degree from Armstrong Atlantic State University through the external degree programs must meet all admission requirements. External degree sites include the Brunswick Center on the campus of the Coastal Georgia Community College in Brunswick and the Liberty Center on the Fort Stewart U.S. Army Post in Hinesville.

## Brunswick Center

**Criteria for Admission.** Anyone who has completed an associate degree or its equivalent is eligible for admission to Brunswick Center programs and courses. Moreover, Coastal Georgia Community College students who have sophomore standing and meet certain requirements, including completion of all core curriculum English requirements and Regents' Test passage, may be admitted to Brunswick Center classes taught by the senior colleges and universities. Anyone who already has a baccalaureate degree also may be admitted as a non-degree student to take courses, particularly for teacher certification.

**Admission Procedures.** Prospective students must apply for admission to Armstrong Atlantic State University and meet all admission requirements for that institution. The admission application process is handled through the Brunswick Center Office; the completed application and all transcripts of previous college work must be sent for preliminary processing to the Brunswick Center, which will then send the documents to the Armstrong Atlantic admissions office.

**After Admission.** Once admitted to Armstrong Atlantic State University or either of the other consortium institutions, students are allowed to take courses offered through the Brunswick Center by all three institutions. The senior institutions accept all course work done through the Brunswick Center as resident credit. Upper level courses taken by Coastal Georgia Community College students will be applied toward their baccalaureate degrees. The director of the Brunswick Center serves as the initial advisor, meeting with each student to outline an overall program as well as to plan a schedule every semester. Registration for the Brunswick Center is done through the center's office at the time of Coastal Georgia Community College registration. Students are encouraged to participate in preregistration for the next semester. Graduation requirements for each degree are set by Armstrong Atlantic State University. Armstrong Atlantic's registrar and appropriate department heads certify each candidate for graduation. Brunswick Center students have full use of the Coastal Georgia Community College's library and other support services.

**Fees.** A \$20 processing fee must accompany each application for admission to Armstrong Atlantic State University. Tuition fees for both senior college courses and junior college courses are collected at the current rates set by the University System Board of Regents. Senior college students taking four or more semester hours at Coastal Georgia Community College also must pay student activity and athletic fees at this institution. Tuition fees are paid to Coastal Georgia Community College.

**Financial Aid.** Students seeking financial aid should make application through the financial aid office of their home institution. Financial aid application forms for Armstrong Atlantic State University may be obtained from the Brunswick Center office.

## Honors Program

Entering students may apply to the honors program if they score 1100 on the SAT and graduate with a 3.2 grade point average on a 4.0 scale. Students scoring 3 or better on each of three advanced placement examinations of the College Board are also eligible to apply.

Continuing 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. Honors courses in the core are open to all students who meet the published prerequisites.

## Regents Engineering Transfer Program (RETP)

The Regents Engineering Transfer Program at Armstrong Atlantic State University provides two access points for admission. First, at the time of admission to Armstrong Atlantic, the student must have achieved a minimum composite SAT score of 1090, with a math SAT of at least 560, and a 3.0 high school grade point average. However, any student who has been admitted to an engineering program at Georgia Tech on the basis of his or her academic record can enter Armstrong Atlantic as a RETP student even if the above requirements are not met.

Students at Armstrong Atlantic who do not qualify for admission to the RETP under the terms of the previous paragraph, but want to join the program at the end of the freshman year, must fulfill the following criteria: completion of MATH 1161 and 2072 with grades of B or better, completion of CHEM 1211 and 1212 with grades of B or better, and a college grade point average of 3.0.

Regents Engineering Transfer Program students must be U.S. citizens with Georgia residency. RETP students who satisfactorily complete the pre-engineering curriculum and apply for transfer will be accepted to Georgia Tech.

## **Georgia Tech Regional Engineering Program (GTREP)**

Beginning with the freshman class of fall 1999, Armstrong Atlantic engineering students may complete the bachelor of science degrees in civil engineering and computer engineering from the Georgia Institute of Technology without leaving Savannah. Students will complete their first two years in Armstrong Atlantic's engineering studies program. The balance of the program will be delivered by Georgia Tech via distance learning and Georgia Tech faculty reassigned to Savannah. Admission requirements are the same as those for the RETP listed above. Out of state students are eligible for GTREP. Additional current information may be found at <http://www.engineering.armstrong.edu>.

## **Sixty-Two Plus Program**

Sixty-two Plus is an Armstrong Atlantic program of life-long learning for senior citizens. Those who are at least 62 years of age may enroll in credit courses on a space-available basis without payment of fees, except for books, supplies, laboratory or special course fees. They must be residents of Georgia and must present a birth certificate (or comparable written documentation of age) to enable the admissions office to determine eligibility. In addition, individuals in the 62 Plus program must meet all admission and degree requirements. Information about this program may be obtained from the adult academic services office. Once 62 Plus students have earned ten semester hours (including institutional credit), they will be required to fulfill any learning support requirements.

## **SOCAD Program**

Active duty military personnel and their dependents may elect to attend Armstrong Atlantic State University under the provisions of the SOCAD Agreement. Applicants who have an active student agreement with another SOCAD institution should meet Armstrong Atlantic's admission requirements for transient students. The student agreement will serve as the transient letter. Applicants who wish to earn a degree from Armstrong Atlantic State University under the SOCAD provisions must meet either freshmen or transfer admission requirements.

## **Veterans Affairs Program**

After having been accepted at Armstrong Atlantic State University and upon receipt of certification of eligibility and entitlement from the Veterans Administration, veterans may attend under Public Law 358 (Veterans Readjustment Benefit Act of 1966), Public Law 815 (Disabled), Public Law 894 (Disabled), Public Law 634 (War Orphans), or Public Law 631 (Children of Permanently Disabled Veterans). Students under Public Laws 358, 631, and 634 should be prepared to pay tuition and fees at the time of registration. Veterans must have received notification of acceptance to the university prior to contacting the veteran affairs office to begin certification of eligibility process.

## **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.

## **Graduate Admissions**

Graduate program specific admission requirements are listed in the Armstrong Atlantic State University Graduate Catalog.

## Acceptance to the University

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

The university reserves the right to reject an applicant who is not a resident of Georgia. All students enrolled at Armstrong Atlantic State University are required to abide by the provisions of the honor code.

*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.*



# Expenses and Fees

## Expenses

Principal expenses and regulations concerning the payment of fees are described herewith. 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, nonresident tuition, student services fees and other special fees. Fees of all students are due and payable at time of registration; registration is not complete until all fees have been paid.

## Tuition and Required Fees (Per Semester Hours)

At press time for this catalog, the University System Board of Regents had not yet set fees (undergraduate and graduate, resident and non-resident) for the 1999-2000 academic year. Information sheets listing tuition and required fees will be available in the registrar's office on June 1, 1999. Fees are charged at either the undergraduate or graduate rate based upon the student classification in the computerized student information system. Non-resident tuition is charged to students who are not classified as Georgia residents.

- Students in specified courses, for example, applied music or scuba diving, may be subject to additional fees.
- Non-resident tuition is waived for active duty military personnel and their dependents stationed in Georgia (except military personnel assigned to this institution for educational purposes). Documentation must be presented to the registrar's office.
- On-campus students pay an activity fee and an athletic fee each semester, regardless of the number of hours enrolled.
- Students registered only for off-campus courses do not pay student activity or athletic fees. Students registered for a combination of on- and off-campus courses do pay student activity and athletic fees.
- Tuition and fees are waived for Georgia residents who present to the registrar's office written documentation that they are 62 years of age or older.
- Contact the registrar's office for detailed fee information.

## Regents' Policies Governing Residency Requirements

To be considered a legal resident of Georgia, the applicant must establish the following facts to the satisfaction of the registrar.

- If a person is 18 years of age or older, he or she may register as an in-state student only upon a showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
- No emancipated minor or other person 18 years of age or older shall be deemed to have gained or acquired in-state status for tuition purposes while attending any educational institution in this state, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
- If a person is under 18 years of age, he or she may register as an in-state student only upon a showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
- If a parent or legal guardian of a minor changes his or her legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of in-state tuition. After the expiration of the twelve month period, the student may continue his or her registration only upon the payment of fees at the non-resident rate.
- In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year

from the date of court appointment, and then only upon a proper showing that such appointment was not made to avoid payment of the non-resident fees.

- Aliens shall be classified as non-resident students provided, however, that an alien who is living in this country under an immigration document permitting indefinite or permanent residence shall have the same privilege of qualifying for resident tuition as a citizen of the United States.

**Waivers**

An institution may waive non-resident tuition for:

- non-resident students who are financially dependent upon parents or spouses who have been legal residents of Georgia for at least twelve consecutive months immediately preceding the date of registration; provided, however, that such financial dependence shall have existed for at least twelve consecutive months immediately preceding the date of registration.
- international students, selected by the institutional president or his or her authorized representative, provided that the number of such waivers in effect does not exceed one percent of the equivalent full-time students enrolled at the institution in the fall semester immediately preceding the semester for which the out-of-state tuition is to be waived.
- full-time employees of the university system, their spouses, and their dependent children.
- full-time teachers in the public schools of Georgia or in the programs of the state board of technical and adult education and their dependent children. Teachers employed full-time on military bases in Georgia shall also qualify for this waiver.
- career consular officers and their dependents who are citizens of the foreign nation which their consular office represents, and who are stationed and living in Georgia under orders of their respective governments. This waiver shall apply only to those consular officers whose nations operate on the principle of educational reciprocity with the United States.
- military personnel and their dependents stationed in Georgia and on active duty unless such military personnel are assigned as students to system institutions for educational purposes.
- students who are legal residents of non-resident counties bordering on Georgia counties in which an institution of the university system is located and who are enrolled in said institution.

**Residency Reclassification**

Students are responsible for registering under the proper residency classification. A student classified as a non-resident who believes that he or she is entitled to be reclassified as a legal resident may petition the registrar for a change in status. The petition must be filed no later than sixty (60) days after the term begins in order for the student to be considered for reclassification for the term. If the petition is granted, reclassification will not be retroactive to prior semesters. Petition forms are available in the registrar's office.

**Student Housing and Food Service**

Students wishing to live in the dormitory must submit the Armstrong Atlantic housing application and a \$100 deposit to the student affairs office. Contact student affairs for general housing information and the financial services office for additional financial information. Refer to the housing contract for specific terms and conditions.

**Resident Hall Fees Per Semester.** Fees shown include food service of \$900.00 per semester.

<b>Single (no roommate):</b> .....	\$2,534.00
<b>Double (with roommate):</b> .....	\$2,200.00
<b>Per Night Rate (without meals):</b> .....	\$20.00

**Other Special Costs**

**Application Fee (Non-Refundable):** ..... \$20.00  
 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):** ..... \$41.00

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 \$5.00 is due. The full \$41.00 is charged for a second degree awarded at a subsequent graduation ceremony. A fee of \$20.00 is charged for each replacement diploma.

**Medical Technology Deposit (Non-Refundable):** ..... \$50.00

**Radiologic Sciences Deposit (Non-Refundable):** ..... \$50.00

**Dental Hygiene Deposit (Non-Refundable):** ..... \$100.00

**Physical Therapy Deposit (Non-Refundable):** ..... \$250.00

For accepted applicants to retain their position in the program (may be applied to first semester matriculation fees).

**Late Registration Fee (Non-Refundable):** ..... \$42.00

Charged to students who register after the registration period.

**Music Fees**

Applied music courses consist of one twenty-five minute private lesson per week (MUSC 1300) or one fifty minute private lesson per week (MUSC 1400, 2400, 3400, 4400). A special fee of \$90.00 is charged for students enrolled in MUSC 1300. A special fee of \$180.00 is assessed for MUSC 1400-4400 to music majors enrolled for less than 12 hours and to students who are not music majors. Music majors may enroll, at no charge, for one applied music course from MUSC 1400-4400. Additional applied music courses will be assessed a special fee at the non-music major rate.

The applied music fee is refundable only if the student does not meet the first scheduled lesson.

**Teacher Education Practicum Fee**

Students admitted to teacher education programs in the College of Education after August 20, 1998 are required to pay a \$250.00 student teaching/internship fee (to be submitted with student teaching or internship application).

**Continuing Education Courses (Non-Credit)**

Fees are announced every semester for courses scheduled (fees vary with courses). Students who formally withdraw from a continuing education course, short course, workshop, or conference up to twenty-four hours prior to the first class meeting will receive a full refund of fees paid. No refunds will be made for withdrawals after the first class meeting. Fees paid for courses or conferences canceled by the office of continuing education will be refunded 100%. Refund checks will be mailed approximately four weeks after the approved withdrawal form is received by financial services.

**Refund Policy**

Refund of tuition and fees may be requested only upon written application for withdrawal from school. The withdrawal form should be completed in the office of student affairs. **No Refunds Will Be Made to Students Dropping Courses.** Refunds for withdrawals, academic suspension, and canceled classes will be available at the cashier's office starting the ninth week of the semester. They will be mailed if not picked up by the eleventh week of the semester.

**Refund schedule:**

<i>Withdrawal Date</i>	<i>Refund Percentage</i>
Prior to and on the first day of class	100%
Second day of class and before end of first 10% of enrollment	90%
After first 10% of enrollment through the end of first 25% of enrollment	50%
After first 25% of enrollment through the end of first 50% of enrollment	25%
After 50% of enrollment	None

Enrollment is defined as the scheduled number of official class days for that semester. Refunds are based on the withdrawal date of the semester's class days, not how many times individual classes have met.

Students attending the university for the first time who receive assistance under Title IV of the Higher Education Act of 1965 as amended are entitled to a pro-rata refund of that portion of the tuition, fees, room, board, and other charges, based on that portion of the enrollment period which remains on the last day of attendance by the student, up to the 60% point (in time) in the enrollment period.

Refund of all semester non-resident tuition, tuition, and other mandatory fees shall be made in the event of the death of a student at any time during an academic semester.

**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.

**Dormitory Deposit Refunds.** Refunds of the dorm deposit (less damages) will be available four weeks after financial services is notified by student affairs.

## Returned Check Policy

Students whose checks are returned to the university unpaid by their banks will be notified by the financial services office to pay the amount due. Students whose checks were used for bookstore and other purchases will be assessed a service charge of \$25.00 or 5% of the check, whichever is greater. Students whose checks were used for tuition and fees will be assessed the service charge plus the late registration fee. Checks returned because of bank errors will be redeposited after written notification is received from the bank and a \$25.00 service charge is paid by the student. No late registration fee is assessed for checks returned because of a bank error. Students should request reimbursement of service charges from their banks. Placement of a stop payment on a check does not constitute formal withdrawal from the university and is considered a returned check. Legal means will be used to collect returned checks. Writing a non-sufficient funds check or stopping payment on a check does not cancel registration. Students whose checks are returned for non-sufficient funds or who stop payment on a check must honor the check and pay the service charges before withdrawing from school. After honoring a returned or stop-payment check and formally withdrawing in the Division of Student Affairs, students will receive any refund due as a result of official withdrawal.

## Payments

Students who participate in advanced registration, registration, or late registration may use credit cards (VISA and MasterCard) to pay tuition. Make payments at the front desk in the lobby of the Administration Building. Partial payments, i.e., part credit card and part cash or check, are not accepted. The person whose credit card is being used to pay tuition must be present to sign the charge slip.

Cash and check payments are accepted at the cashier's window in the Administration Building. Drop boxes are also available for check payments. Checks sent by mail should be made payable to Armstrong Atlantic State University and addressed to Financial Services - Tuition Payments, Armstrong Atlantic State University, 11935 Abercorn Street, Savannah, GA 31419. **Students' social security numbers should be listed on checks.** Only checks drawn on U.S. banks will be accepted.

Your registration schedule/bill must be presented when paying in person, or attached when mailing payment or using the drop boxes. Dormitory students can use the drop box procedure for dorm payments by check and should specify as such on their checks.

**The total amount due on the schedule/bill (including encumbrances) must be paid in order for the university to accept payment.** (Encumbrances are other debts owed to the university by students.) **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 cashier's window or table with both check and

cash. Students who have financial aid and pay the balance with cash or check must pay their fees at the cashier's table during regular registration. Students who mail their schedule/bill and check to financial services cannot be guaranteed enrollment unless their payment is sent by registered mail and is received by financial services by the appropriate deadline.

**Checks submitted with old schedule/bills, without schedule/bills, in amounts less than total fees due, incompletely filled out checks, counter checks, two-party checks, or post-dated checks will be mailed back to students.** 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.

## Financial Obligations

Any student delinquent in the payment of any financial obligation to the university will have grade reports and transcripts of records withheld. Grade reports 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.

## Financial Aid Student Payment

Students who have financial aid will have their aid applied directly to the student account. This will be done periodically throughout the semester as a student's aid is approved. "Difference" checks (results of financial aid less tuition and other fees) will be available weekly throughout the semester as financial aid is processed.

Students who do not pre-register or do not complete financial aid paperwork on time will have their "difference" checks delayed. **In order to receive "difference" checks as soon as possible, students must participate in advance registration and have all financial aid paperwork completed on time.**

To pick up difference checks, students must have a valid photo ID with their social security number. A driver's license or student ID is acceptable. Students whose driver's license number does not match that of their social security number must have a social security card. Difference checks will be mailed if not picked up after two weeks.

Financial aid students who register in advance, but whose aid does not exceed fees, should submit the remaining payment on registration day. Financial aid students who register and do not attend classes will have their aid applied and receive a grade. If their charges exceed aid, they will be billed for the unpaid amount. Financial aid students who register and decide not to attend classes should formally withdraw from school in the Division of Student Affairs.

Students whose financial aid is not completed prior to registration should be prepared to pay fees themselves and be reimbursed later in the semester.

## Brunswick/Liberty Center Financial Policies

Cash payments are not accepted. Mail personal checks, cashier's checks, or money orders to Armstrong Atlantic in official envelope along with your schedule/bill. Payments must be received by Armstrong Atlantic within three working days after registration. Make checks payable to AASU, or Armstrong Atlantic State University.

Students who participate in advance registration, registration, or late registration may use credit cards (VISA or MasterCard) to pay tuition. Partial payments, i.e., part credit card/part cash or check, are not accepted. Call 912/927-5275 or 912/927-5211 for further information.

**Financial Aid Students.** If the amount due on your schedule/bill is a negative number, a difference check will be mailed to you. If you still owe an amount, follow check/credit card procedures. If your payment is not received by Armstrong Atlantic within three working days, your enrollment will not be completed.

**Refund Policy.** Refund of tuition and fees may be requested only upon written application for withdrawal. The withdrawal form should be completed by the student affairs office at 912/927-5271. **No refunds will be made to students dropping a course.** Refunds for withdrawals, academic suspension, and canceled courses will be mailed starting the ninth week of the semester.

Refunds are not made for late registration fees or graduation fees. Refund checks are payable to the student regardless of who paid the fees.

## General Guidelines

- Students enrolled at Armstrong Atlantic or Savannah State who pay the maximum tuition and fees amount may be eligible to take one course at the other institution at no charge. Consult with the registrar's office regarding program details and the required documentation before registration.
- After payment of fees, application of financial aid to fees, or application of support by outside agencies, there are no adjustments for dropping a course.
- No fee deferments or payment plans are available. All tuition and fees are due at registration per the guidelines of the Board of Regents of the University System of Georgia.
- Students whose fees are paid by financial aid and who withdraw from school will have refunds returned to the payment source based upon federal regulations and university policy.
- Students who add a class, do not pay the additional fees, and do not officially drop the course, will be billed for the course and will receive a grade.
- The university reserves the right to apply all payments or financial aid to any unpaid student balances.
- Brunswick and Liberty Center students should consult with center staffs for specific guidelines and procedures.
- Financial aid students who enroll for hours different from their aid-based hours will not receive any difference check until late in the semester.

# Financial Aid

## General Information

The financial aid office is especially concerned with students who need financial assistance to attend Armstrong Atlantic State University. 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 the HOPE Scholarship, Pell Grants, Federal Supplemental Educational Opportunity Grant (SEOG), and student loans. 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 Atlantic State University 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 Atlantic State University, private donors). The federal government determines need based on information in the completed FAFSA through analysis of the data provided by the student's family or, if independent, by the student. This analysis is transmitted to the financial aid office where it is compared with the cost of education. The formula applied is: cost of education minus expected family contribution equals need ( $COE - EFC = \text{Need}$ ). If the family contribution is less than the cost of education, financial need has been established.

In general, students who apply by the priority deadline (March 15) are more likely to receive some type of financial assistance than those who apply after the deadline. Due to the fact that certain funds are limited, the financial aid office will award its yearly allocation of those funds to students who meet the priority deadline and demonstrate the greatest need. Therefore, students are encouraged to apply as early in the year as possible.

The financial aid office is interested in helping students find ways to finance their education. However, the application and awards process is heavily regulated by federal and state law, and as a result the process takes time. As many as thirty percent of Armstrong Atlantic State University students may be selected for a process called verification. Armstrong Atlantic's financial aid office 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 1998 federal income tax returns and a completed verification worksheet to the financial aid office. Students who are not considered independent by the federal government would also need to submit signed copies of their parents' 1998 federal income tax returns. The financial aid office 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 financial aid office.

Only by meeting the March 15 priority deadline can students expect to have funds available at the beginning of fall semester. Students who do not meet this deadline will be required to pay their own fees for fall semester 1999. 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.

## Application Information

An applicant for student financial aid must:

- be enrolled or accepted for enrollment at Armstrong Atlantic State University;
- complete and submit a signed FAFSA or Renewal FAFSA to the central processor;
- complete and submit other forms as requested by the financial aid office.

Students are eligible to apply for financial assistance provided they are making satisfactory academic progress and meeting the requirements of the program(s) from which assistance is sought. Transient students, exchange students, and those enrolled in continuing education classes

are not eligible for financial aid. Students are required to adhere to all regulations and requirements of the program from which they receive assistance and to notify the financial aid office of any changes in status which may affect their aid eligibility.

The minimum number of semester hours for which a financial aid recipient may enroll per semester varies from program to 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 (6 hours of graduate level classes, for graduate students).

- You must complete a renewal application or FAFSA to apply for grants, loans, and the HOPE Scholarship **every year**.
- Students should apply either by mail **or** on the world wide web – **not both**.

For detailed information about Armstrong Atlantic financial aid, visit our web site at <http://www.finaid.armstrong.edu>. For federal student aid information call **1-800-433-3243** and request *The Student Guide* from the U.S. Department of Education.

**Paper Renewal Applications.** Beginning in November of every year, the Department of Education mails renewal applications to students who applied for aid for that academic year. Renewal applications are sent directly to student addresses on file with the federal processor. If you have moved since applying for aid for the previous year, the post office **will not** forward your application to you. Selected students do not receive renewal applications because of the manner in which they last applied for aid. If you have not received your renewal application by January 15, you should complete and submit a regular FAFSA for the coming year. The federal processor **will not** respond to requests for renewal application forms from either schools or students.

**Electronic Renewal Applications.** Students who apply via the world wide web will be sent an electronic access code (EAC) to be used at the FAFSA web site (<http://www.fafsa.ed.gov>) to access and complete a renewal application for the coming year.

## Deadlines

- |                    |   |
|--------------------|---|
| <b>March 15</b>    | <b>Fall semester priority deadline</b> for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor.   |
| <b>April 15</b>    | <b>Fall semester deadline</b> for submitting all supporting documentation requested by the financial aid office.                  |
| <b>August 1</b>    | <b>Spring semester priority deadline</b> for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor. |
| <b>September 1</b> | <b>Spring semester deadline</b> for submitting all supporting documentation requested by the financial aid office.                |
| <b>March 1</b>     | <b>Summer semester priority deadline</b> for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor. |
| <b>April 1</b>     | <b>Summer semester deadline</b> for submitting all supporting documentation requested by the financial aid office.                |

**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 for preregistered students will begin on registration day every semester. Students who do not preregister will have to wait approximately ten days before difference checks are available. Aid offered on the award letter is based on full-time status unless otherwise indicated, and may be adjusted depending on hours enrolled. **Financial aid will only be disbursed to students who have received, signed, and returned their award letter and ALL enclosed documentation to the financial aid office.**

Work study funds are earned on an hourly basis and are only paid for work performed. Funds from this program are not available for registration.



## Grants

Students are not required to repay these awards.

**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 in fewer than the number of hours considered full-time, funds will be reduced accordingly.

**Federal Supplemental Educational Opportunity Grant (SEOG).** Open to eligible undergraduate students. Awards based on need and available to students who meet the March 15 deadline. Funds are awarded on the basis of funds availability, on a first-come, first-served basis.

## Employment

Students in either program may not exceed nineteen hours of work per week, and regulations allow only one position per student.

**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 quarter.

**Institutional Work Study Program.** Students are selected for this program by the heads of the various departments and approved by Armstrong Atlantic's human resources office. Students must be qualified for the available positions.

## Scholarships

Many scholarships awarded on the basis of merit or need (or both) are available to entering freshmen. Award decisions are made by a scholarship committee during the spring of every year for the next academic year. Academic scholarship application forms are available in the financial aid office. The freshmen applicant deadline for submitting scholarship applications is February 1. The deadline for returning, transfer, and graduate students is May 1.

Some scholarships awarded are:

- Alumni Scholarships
- Anthony Porter Scholarship
- Class of '37 Scholarship
- Dixie Crystals Scholarship
- Eleanor Webster Boyd Scholarship
- Pauline Gooch Scholarship
- Nationsbank Scholarship
- Porter Pierpont Rotary Scholarship
- Sarah Mills Hodge Scholarship
- Savannah Jaycees Scholarship
- Savannah Volunteer Guards Scholarship

Scholarships are also awarded by various departments on campus including art, music, and theatre; athletics; biology; chemistry and physics; computer science; dental hygiene; 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 bulletin board outside the financial aid office as they become available during the year. Students should come by periodically to check on any new 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 B (3.0 cumulative grade point average on a 4.0 scale, or numerical grade average of 80) in the college preparatory track. If you are in any other curriculum track, you must have a 3.2 cumulative grade point average on a 4.0 scale, or numeric grade average of 85 (meeting that curriculum's requirements).

Students may receive first-year HOPE assistance for the first 30 semester credit hours attempted at any Georgia public college or university. This includes tuition, HOPE-approved mandatory fees, and a book allowance of up to \$150 per quarter. Full-time enrollment is NOT required.

HOPE funds may be applied only to tuition and mandatory fees NOT covered by Pell or other federal grant monies received. 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 HOPE Alternate Application;
- Make satisfactory academic progress.

College hours and grades attempted prior to high school graduation are not used in calculating the cumulative grade point average to renew the HOPE scholarship.

**Second-Chance Opportunity for Students to Regain HOPE.** HOPE is a reward for scholastic achievement and an incentive to continue working hard in school. If, after attempting 30 semester hours in a state college or university, students falls below a 3.0 cumulative grade point average, they may continue their sophomore year at their own expense. If they then earn a 3.0 cumulative grade point average at the completion of their sophomore year (60 attempted semester hours), students will be given a second chance to receive a HOPE Scholarship for their junior year with the opportunity to renew the scholarship for their senior year (90 attempted semester hours).

**HOPE for Students Already in Public College or Returning to Public College.** If a student graduated from high school before the HOPE program began in 1993, or is not academically eligible for the HOPE scholarship immediately after high school graduation, he or she may be eligible for the HOPE scholarship after attempting 30 or 60 semester hours of study, if he or she has a 3.0 cumulative grade point average and is a legal resident of Georgia.

The PROMISE Teacher Scholarship Program provides forgivable loans to high-achieving students who aspire to be teachers in Georgia public schools. To be eligible, students must have the following:

- legal residency in Georgia;
- minimum cumulative grade point average of 3.6 based on a 4.0 scale;
- academic classification as a junior;
- acceptance in a teacher education program leading to initial certification.

The HOPE Teacher Scholarship Program provides forgivable loans to individuals seeking advanced education degrees in critical shortage fields of study. To be eligible, students must have the following:

- Legal residency in Georgia;
- Regular admission to graduate school in an advanced degree teacher education program leading to initial certification in a critical field. (More information on the eligible fields is available in the financial aid office.)

## Loans

**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.

Stafford loan annual maximums based on student classifications are as follows.

Freshmen (students who have not yet completed the first year of a program): ..... \$2,625  
 Sophomores (students who have earned 45 quarter or 30 semester hours): ..... \$3,500

Juniors and seniors (students who have successfully completed the first 90 quarter or first 60 semester hours of a four-year program): ..... \$5,500

**Note: Juniors and seniors must have declared majors and been accepted into a baccalaureate degree program.**

Graduate students (students enrolled in 6 credit hours or more of graduate level classes): ..... \$8,500

**Additional Unsubsidized Stafford Loans.** In addition to the limits listed above, independent students may apply for the following (not to exceed students' cost of attendance less financial aid).

Freshmen and sophomores: ..... \$4,000

Juniors and seniors: ..... \$5,000

Graduate students: ..... \$10,000

**Hour Requirements:** Undergraduate and graduate students must be enrolled in 6 or more hours to be eligible to receive a student loan.

**First Time Borrowers Who Are First Time College Students.** In accordance with federal guidelines, the first installment of a federal Stafford Loan for a student who is entering his or her first year of college cannot be released until 30 days after the first day of the semester. These funds will not be available to buy books on registration day. Students **must** also complete an entrance counseling form.

**Electronic Funds Transfer Processing Time.** Once electronic funds transfers have been sent to the university from the state of Georgia, there will be a processing time of five to ten business days, after which funds will be available at the cashier's window.

**Federal PLUS Loans.** PLUS loans are available to parents of dependent, undergraduate students for amounts not to exceed the students' costs of education less financial aid. Applications are available at local lending institutions and at the financial aid office.

**Health Career and Critical Field Loans (\$2,000 Maximum).** Legal residents of the state of Georgia who are formally admitted to and enrolled in the following programs of study may be eligible for loans able to be canceled through service:

- Baccalaureate Degree Nursing
- Radiological Technology
- Dental Hygiene
- Medical Technology
- Special Education
- Respiratory Therapy
- Physical Therapy
- Math and Science Education

All loans able to be canceled through service are repaid by practicing in the specified fields in the state of Georgia. One calendar year of service repays each academic year of the loan. Applications are available in the financial aid office every spring to students in eligible fields.

## Veterans Benefits

Veteran's educational benefits may be used for study at Armstrong Atlantic. Contact the veterans affairs representative in the registrar's/admissions office for specific instructions on application procedures.

## Standards of Academic Progress

The Higher Education Act mandates that institutions of higher education establish minimum standards of "satisfactory academic progress" for students receiving financial aid. To receive financial aid at Armstrong Atlantic State University, students must maintain satisfactory grade point averages **and** make satisfactory progress as outlined below. These requirements apply to any grants, loans, or scholarships containing any federal or state funds.

Students are responsible for reading and adhering to Armstrong Atlantic's policy regarding standards of academic progress. Failure to meet the minimum requirements defined by this policy

will result in student ineligibility for assistance. Before students can receive aid from any of these programs for a particular year, they must meet the following requirements:

- **Academic Standing.** Students who have earned 60 semester hours and do not have a 2.0 grade point average are not eligible for financial aid.
- **Progress Toward Degree Completion.** Students must make significant progress toward completion of degree requirements in order to receive aid. Armstrong Atlantic State University requires students to successfully complete at least 67% of attempted course work for the prior academic year (fall-spring). For instance, if a student enrolled in 12 semester hours in both fall and spring terms he or she will be required to complete 16 hours (67% of 24=16). Grades of WI, WF, V, F, U, and I are not considered successful course completion.
- **Credit Hour Limit.** Students at Armstrong Atlantic are given a maximum number of credit hours in which to complete their degrees. Students who exceed this limit are not eligible for aid. The credit hour limit allowed for financial aid purposes is 150% of the total number of hours necessary to be awarded a degree. Credit hours attempted both at Armstrong Atlantic and elsewhere are counted toward this limit. If a student has attempted 186 semester hours (150% of average degree requirement) without earning a degree, he or she will no longer be eligible to receive aid. This policy has the greatest effect on students who change their majors; therefore, students planning such a change should give careful consideration to the potential impact on their financial aid. Learning support classes will be counted toward the credit hour limit.

### **Appeal of Aid Suspension and Reinstatement of Aid**

Students whose aid is terminated because they failed to meet the above requirements may appeal or reapply for aid the following academic year, if they have met the standards for classes taken since the termination of their aid.

Students who feel they can demonstrate mitigating circumstances which affected their academic progress may make a written appeal to the standards of progress appeal committee. Forms for this type of appeal are available in the financial aid office. Students will be notified of the committee's decision approximately two weeks from the date appeals are submitted.

If you have any questions, please call our office at 912/927-5272. Appeals may be mailed to: AASU Financial Aid Office, SOP Appeal Committee, 11935 Abercorn Street, Savannah, GA 31419-1997.

# Student Services and Organizations

As part of its educational mission, Armstrong Atlantic 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 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.

The university encourages learning through involvement in the residence center, student government, campus organizations, intramurals, and more.

## Residence Life and Food Service

The residence center, completed in September 1985, consists of three buildings which house 64 students each. The apartment-style design encourages student interaction without a loss of privacy. Each two-bedroom suite, accommodating four students, has a bath and living room. All units are fully furnished, carpeted, and have unit-controlled heat and air conditioning. Phone jacks and an on-site coin laundry are added conveniences. Several units are equipped to accommodate students with disabilities. The residence complex is staffed by a head resident and resident assistants. These students are chosen on the basis of leadership and willingness to serve their fellow students.

Students who live in university housing are required to participate in the meal plan provided in the Memorial College Center cafeteria. The meal plan is also available for students who do not choose to live in university housing.

Housing applications and specific information may be obtained from the admissions office or the Division of Student Affairs.

## Student Services

**Academic Computing Center.** The computing center, located in the Memorial College Center Annex, houses separate minicomputer and microcomputer facilities for student use. All machines in the academic computing center are connected to the campus-wide network and allow access to file servers and other network services. A separate engineering microcomputer lab has high performance color workstations and a high-speed plotter.

**Academic Orientation and Advisement.** Faculty advisors in the academic orientation and advisement office represent a variety of disciplines and 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, via the World Wide Web, and by using a computer-based library of educational and occupational topics. The office of academic orientation and advisement also administers the post-secondary options program for accelerated high school students, and the AASU 1101 Strategies for Success course. Open most evenings until 7:30, the office is located on the first floor of Victor Hall.

**Adult Academic Services.** This office provides information and guidance to mature students who are beginning university studies for the first time or who are returning after years away. Adults Back to College information sessions are offered every semester, and information packets are available by mail. Students seeking academic renewal information and advice are also served. The office, located in Gamble Hall, is open most evenings until 7:00.

**Alcohol and Drug Education.** The office of alcohol and drug education provides campus alcohol and drug prevention programs, 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. The Division of Student Affairs coordinates support group meetings on campus and collaborates with local prevention and treatment facilities. Training is provided for residence hall advisors and CHAOS leaders. Classroom instruction is provided upon request of instructors. Resource materials are available.

**Bookstore.** Armstrong Atlantic's bookstore, located between the Memorial College Center (MCC) and the MCC Annex, provides students with textbooks, school supplies, university apparel, gifts, and laboratory and studio supplies. Extended hours are posted during the first week of every semester.

**Cafeteria.** The campus cafeteria is located in MCC and offers cash service as well as meal plans. A daily hot line, salad bar, deli line, pizza, and Chick-Fil-A are open during the academic year.

**Career Services.** This office 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 counseling and computerized career guidance techniques. Part-time and full-time employment opportunities, along with cooperative education opportunities, are listed in the office of career service's career library. 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, referrals, and on-campus interviewing services are available to students and alumni registered with career services. Two job fairs are held annually. The job fair for liberal arts and health professions graduates is held every fall and education career day is held during spring term for education students and graduates. All juniors and seniors are urged to register with the career services office three terms before graduating to establish a placement file and become eligible for services.

**Counseling Services.** Services are offered to currently enrolled and former students at no cost. 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 Division of Student Affairs on the second floor of the Memorial College Center.

**Disability Services.** Students with disabilities are provided accommodations appropriate to their documented needs. These services are determined on an individual basis. Accommodations may include extended time on exams, alternate test formats, reader services, sign language interpreters, assistive listening devices, note-takers, assistance with registration, or other services as needed. If a student has a disability which may require accommodation, he or she should contact the office of disability services in the Division of Student Affairs as soon as possible. Copies of disability services policies and procedures and the ADA grievance procedure are also available in the student affairs office.

**ID Cards.** New Armstrong Atlantic ID cards are made in room 214 on the second floor of Memorial College Center. Old IDs must be validated every semester.

**International Student Services.** Students from other countries are encouraged to contact the international student services 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.

**Lane Library.** Built in 1966 and substantially enlarged in 1975, Lane Library supports the academic programs of Armstrong Atlantic State University. To that end, library faculty provide assistance in identifying, locating, obtaining, and using information resources. A valid Armstrong Atlantic ID card is required to check out materials.

The library collections consist of 800,000 items: 185,000 book volumes; 600,000 microforms; and 9,000 individual audiovisual titles including compact discs, records, laser discs, slides, and video recordings. In addition, the library subscribes to approximately 1,043 journals and newspapers. A special collection, the Florence Powell Minis Collection, contains publications of the university, published works by Savannah authors, and published material about Savannah and the surrounding area. The collection also includes first editions by Conrad Aiken, Flannery O'Connor, and other Savannah authors. Through participation in state, regional, and national resource-sharing agreements with other libraries, Lane Library is able to borrow and obtain for its clientele materials not available at Armstrong Atlantic. Interlibrary loan (ILL) materials arrive by UPS, fax and electronic delivery services.

Off-campus library services for Armstrong Atlantic programs are supported by local libraries. Library directors coordinate the purchase of books, journal subscriptions and electronic media. Off-campus students may access library resources at home by accessing the online catalog, ORCA. Interlibrary loans may also be requested through ORCA. In addition, over 100 databases are available on GALILEO, a system of databases shared among the 34 University System of Georgia libraries. GALILEO may be accessed by registered Armstrong Atlantic students from home via password.

**Math 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 volunteers from the Department of Learning Support. The lab is administered jointly by the Department of Learning Support and the Department of Mathematics, and is located on the second floor of Lane Library.

**Minority Advisement.** The minority advisement program helps minority students develop interest in all facets of campus life. Peer advisors offers one-on-one assistance to students in adjusting to personal and academic life on campus. Social, cultural, and educational activities designed to broaden all students' knowledge of African-American people and their contributions to society are presented.

**Parking.** All vehicles driven on campus must display a university parking decal on the rear window. Free decals are available at the public safety office on Science Drive. All students, faculty, and staff are encouraged to become aware of Armstrong Atlantic's parking regulations. A copy of the regulations may be picked up in the public safety or students affairs offices, and regulations are published in *Students Illustrated*.

**Reading Lab.** This resource is available to students who feel the need for assistance in college level reading. Staffed by student tutors and by faculty volunteers from the Department of Learning Support, the lab is open 6-8 hours a day and, in addition to one-on-one assistance, offers audiotapes and computer programs that foster the development of reading skills. The lab is administered by the Department of Learning Support and is located on the second floor of Lane Library.

**Testing.** Tests for career interests, study habits, learning styles, personal preferences, and abilities are provided free of charge with counseling services. In addition, the following state- and nation-wide testing programs are administered by the director of counseling services: Academic Profile, ACT PEP Regents College Degrees, College-Level Examination Program, DANTES Subject Standardized Tests, Graduate Record Examinations, Major Field Achievement Tests, Medical College Admission Test, Miller Analogies Test, Pharmacy College Admission Test, the Praxis Series, and the Regents' Testing Program. For information about these and other testing programs, please contact the Division of Student Affairs.

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

**Volunteer and Service Learning.** This office, located on the second floor of Memorial College Center, provides opportunities for experiential education through internships, cooperative education, and volunteer community service. Students may receive academic credit or financial incentives in addition to major or career-related experience.

**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.

## Student Activities and Organizations

**Academic Honor Societies.** Honor societies recognize and encourage superior scholarship in many fields of study. Campus chapters include: Alpha Sigma Chi (Physical Education); Beta Beta Beta (Biology); Kappa Delta Pi; Pi Gamma Mu (Social Science); Sigma Delta Tau (English); Sigma Theta Tau; Honors Student Organization.

**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, such as the faculty lecture series, broaden knowledge and interest in a non-classroom setting. The thousand-seat Fine Arts Auditorium often hosts performances by the Savannah Symphony, area arts groups, and out-of-town troupes such as the National Shakespeare Company.

**Intercollegiate Athletics.** Armstrong Atlantic 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, tennis, and cross country. Women's teams include tennis, cross country, volleyball, basketball, and softball. Cheerleaders are also sponsored. Armstrong Atlantic State University is affiliated with the Peach Belt Athletic Conference (Armstrong Atlantic State University, Augusta State University, Columbus State University, Francis Marion University, Georgia College and State University, Kennesaw State University, Lander University, UNC Pembroke, USC Aiken, USC Spartanburg, North Florida University, and Clayton College and State University).

**Intramurals and Recreation.** The university places a high priority on its intramural and recreational offerings and provides a wide variety of activities including organized competitive sports. The sports and aquatic recreation centers include an indoor pool, gymnasium, fitness center, sauna, and indoor track. Outdoor facilities for tennis and field sports are adjacent to the athletic buildings.

**Orientation Programs.** Designed to promote the academic and social adjustment of new and transfer students, CHAOS (Communication, Help, Advisement, Orientation, and Service) orientation sessions provide new students with the information, services and support essential to a successful transition into the Armstrong Atlantic community. Participants in the one-day CHAOS 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 CHAOS program is a cooperative effort of student leaders and university staff. Competitive selection of student leaders occurs annually during spring semester. Inquiries concerning CHAOS should be addressed to the Division of Student Affairs. An abbreviated orientation program is scheduled for new students prior to registration for spring and summer semesters. The university also encourages new students to enroll in AASU 1101 - University Studies. In addition to the course content, those enrolled will receive special advising and other services. See listing for AASU 1101 in Course Descriptions.

**Student Clubs and Organizations.** Armstrong Atlantic 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:

- **Religious:** Baptist Student Union, New Generation Campus Ministries, Wesley Fellowship, Newman Club.
- **Greek:** Delta Sigma Theta, Kappa Alpha Psi, Kappa Gamma Pi, Sigma Kappa Chi.
- **Professional:** Armstrong Biological Society; American Chemical Society; AASU Anthropology Club; AASU Engineering Society; Georgia Association of Nursing Students; James Moore Wayne Law Club; Junior American Dental Hygienists Association; Medical Technology Club; Student Georgia Association of Educators; The E. B. Twitmeyer Society (Psychology); Armstrong Economic Club; Association for Computing Machinery & Data Processing Management Association; Music Educators National Conference; Radiologic Technologies Association; National Art Education Association; Physical Therapy Club; Criminal Justice Club; Joel E. Hildebrand Chemistry Society; The Philosophical Debate; Political Science Club; Respiratory Therapy Club; National Student Speech, Language and Hearing Association.
- **Special Interest:** Band, Cercle Francais, Cheerleaders, Chorus, College Republicans, Ebony Coalition, FCA Huddle, Gospel Choir, Hispanic Society, International Club, Masquers, Unity



and Diversity League, Vocal Ensemble, Women of Worth (WOW), and AISEC (International Association of Students Interested in Economics and Business Management).

Inquiries concerning any campus club or organization should be addressed to the office of student activities.

**Student Government Association.** The official governing body of students at Armstrong Atlantic State University, student government assists in formulating a program of student services and activities, strives to express the will of the majority of students, and provides experience in democratic living. 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. Student photographic services provides employment and recognition for student photographers. All are financed primarily by the student activity fund.

# Academic Policies and Programs

## Academic Advisement

Armstrong Atlantic 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, selection of their academic program, and for meeting university deadlines, Armstrong Atlantic does require each student to meet with an advisor at least once every semester. The vice president and dean of faculty gives overall direction to the advisement program, with appropriate department heads coordinating advisement in their departments. Academic advisement is available as follows:

### Office of Academic Orientation and Advisement - 113 Victor Hall.

- All undeclared majors
- Students with CPC deficiencies in science, social science, or foreign language

### Department of Learning Support - Jenkins Hall.

- All students currently enrolled in learning support courses
- Students with CPC deficiencies in math and/or English

### Office of Adult Academic Services - 104 Gamble Hall.

- All students in the 62 Plus program
- Non-degree-seeking students returning to school after a number of years away

**Departmental Offices.** All students who have declared majors or are enrolled in pre-professional programs should obtain advisement in their departments.

## Academic Renewal for Returning Students

Students who return to college after an absence of six years or longer may be eligible for academic renewal, a policy whereby academic credit for previously completed course work is retained only for courses in which a grade of A, B, C, or S has been earned. Retained grades are not calculated in the academic renewal grade point average; however, for the purpose of designating graduation honors, all course work is considered. Students interested in the academic renewal program may contact the office of adult academic services at 912/961-3163.

## Academic Standing

The university recognizes four categories of academic standing: **good standing**, **good standing with warning**, **academic probation**, and **academic suspension**. Students are expected to maintain or exceed the grade point average as indicated in the chart below.

Semester Hours Attempted At Armstrong and Elsewhere	Required Overall Grade Point Average (GPA)
0 - 20	1.5
21 - 40	1.7
41 - 60	1.9
over 60	2.0

Students who fall below the overall GPA for the first time are placed on good standing with warning. Failure to raise the overall GPA to the required level during the next semester will result in academic probation. Students on academic probation are not in good standing. If students' overall GPAs are raised to the required level, students are returned to good standing. The second or any subsequent failure to meet the required GPA will result in academic suspension.

Students on academic probation who fail to achieve the required overall GPA, but who do earn an average of at least 2.0 during the probationary semester, will continue to be on academic probation for the next semester of attendance. Students on academic probation who neither achieve the required overall GPA nor earn at least a 2.0 average during the probationary semester will be placed on academic suspension from the university for one semester. A student on

academic suspension for the first time has the option of attending summer school without having to appeal the suspension. However, a student who fails to make satisfactory progress as a result of summer school will be placed on second suspension and have to appeal for readmission in the fall semester. Other than this one exception — attending summer school without having to appeal the suspension — students must submit a written appeal in order to be considered for readmission.

A student suspended for academic reasons for the first or second time may appeal by letter to the committee on academic standing to be considered for readmission. The letter should state the nature of any extenuating circumstances relating to the academic deficiency and must be delivered to the office of the dean of academic and enrollment services no later than 9 a.m. of registration day. The committee on academic standing will make a recommendation to the president, and the decision of the president is final.

Students re-entering the university after academic suspension are placed on academic probation and must meet the requirements listed above. A third academic suspension is final, with the exception that after one year's absence, a student may be considered for readmission. If the student is permitted to re-enroll and fails to achieve the required GPA, he or she will be excluded permanently from the university.

## **Armstrong Atlantic Students Transient Elsewhere**

Armstrong Atlantic students who wish to take course work at another college or university with the intent of applying the courses to their academic record at Armstrong Atlantic may do so in accordance with regulations for transient status to another college. Students must meet any requirements stipulated by the other college, and, in order to apply the credits toward their academic records at Armstrong Atlantic, must meet the academic regulations of Armstrong Atlantic. Consult with the registrar's office for details.

## **Attendance**

Control of student attendance at class meetings and the effect of attendance on course grades are 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 assigned reading. Students are also responsible for submitting on time all assignments, tests, recitations, and unannounced quizzes.

Instructors are responsible for informing all classes 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 drop students from any course with a grade of W or WF, if in their judgment absences have been excessive.

## **Auditing Courses**

Students should request to audit courses during the registration process. Students may not change from audit to credit status or from credit to audit status after completing the registration process. 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 the regular schedule of fees. No student may audit a course in the department of learning support.

## **Course and Study Load**

The normal course load for full-time students is 12-15 semester hours, plus a course in physical education during the freshman and sophomore years. Full-time students are those registered for 12 or more hours. Part-time students are registered for fewer than 12 semester hours. Students should plan to spend about six hours in out-of-class preparation per week for each 3 semester hour course. It is recommended that students enrolled in required learning support courses limit their course loads to 12 semester hours.

## Classification of Students

Students are invited to participate in web and voice registration based on their academic classification, according to the chart below.

Hours Earned	Classification
1-29	Freshman
30-59	Sophomore
60-89	Junior
90 or more	Senior

## Dropping Courses

Students wishing to drop a course after the semester has begun must obtain a drop-add notice in the registrar's office. The notice must be signed by the instructor of the course being dropped and returned by the student to the registrar's office.

A student who drops a course within the first seven days will receive a grade of W for the course. A student who drops a course after the first seven class days and on or before the semester dates listed for mid-term will receive a W or WF at the instructor's discretion. A student who drops a learning support course after the first seven class days will receive a WF. A student may not drop a course without penalty following the semester dates listed for mid-term. A student is not allowed to drop RGTR 0199 or ENGL 1101, 1102, or 2100 at any time unless extenuating circumstances prevail, and the drop form must be authorized by the dean of the College of Arts and Sciences or a designated representative.

Students enrolled in both required learning support and credit courses may not withdraw from learning support courses unless they also withdraw from college courses carrying three or more credits. Students may, however, remain enrolled in other learning support courses and, if so enrolled, may also remain in college-level courses carrying fewer than three semester credit hours. After the twelfth week of the semester, students will be allowed to remain in college-level courses if withdrawn from required learning support courses.

## English and Mathematics Placement

During the initial terms of enrollment at Armstrong Atlantic State University, students must enroll in the appropriate sequence of English composition courses until the sequence has been completed and/or the Regents' Test has been passed. Students must not delay this sequence beyond their second semester of attendance. 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 scores on the SAT or college placement exams, and other factors. See the MATH 1111 course description in this catalog.

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.

## Grade Appeals

In accordance with Armstrong Atlantic State University regulations, appeals for a change of grade may be initiated through the head of the appropriate academic department prior to midterm of the semester after the grade was received. Without the approval of the academic standing committee, no change of grade, other than incomplete, may be made later than two calendar semesters following the semester in which the grade was received.

A student who contests a grade will have the following line of appeal:

1. The student will discuss the contested grade with the instructor involved.
2. If the grade dispute remains unresolved, the student will meet with the department head and the instructor. If the grade dispute is with the department head, the student will meet with the

- dean of the college and the department head. A memorandum for the record will be prepared by the department head (or dean) which will include the substance of the conversations during the meeting. The student will receive a copy of the memorandum upon request.
3. If the grade dispute remains unresolved, the student will present his or her appeal in writing to the department head or the dean of the college, as applicable, who will then appoint a review board to hear the appeal. It is expected that the student will initiate this step no later than midterm of the semester after the grade was received, except if the student plans enrollment in a course for which the course grade being appealed is a prerequisite—see (4) below.
    - a. The review board will consist of the department head or the dean of the college, as applicable, and two members of the department, not including the instructor involved. A separate hearing officer shall be appointed by the college dean. In small departments, membership may come from outside the department.
    - b. The review board shall hear statements from both the student and the instructor involved and will examine documents that are pertinent to the matter under review.
    - c. The review board will hear the grade appeal and present its findings to the college dean prior to the last week of the semester.
  4. 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 beginning of that semester:
    - a. If a grade appeal is not resolved with the instructor concerned, the student will file an appeal in writing with the department head (or the dean of the college if the grade dispute is with the department head). This step will be taken by the second day of the semester.
    - b. The review board to hear the appeal will be appointed by the third day of the semester. If department members are not available to form a review board, the dean of the college, in consultation with the department head, will appoint a review board.
    - c. A review board will hear and complete the grade appeal by the fifth day of the semester and present its findings to the college dean through the hearing officer (or the vice president if the dean is a member of the committee).
    - d. If the appeal to the college dean is denied, the student will be dropped from the course for which the appealed course grade was prerequisite.
  5. If the college dean denies the appeal, the student may continue the appeal to the vice president and dean of faculty. This appeal must be in writing and must be filed within five days of notification from the college dean.
  6. Neither the president nor the regents will accept or consider appeals based on academic grades.

## Grading System and Grade Point Average Calculation

Grade	Quality Points per Semester Hour
A (Excellent) .....	4.0
B (Good) .....	3.0
C (Satisfactory) .....	2.0
D (Passing) .....	1.0
F (Failure) .....	0.0
W (Withdraw, no penalty) .....	0.0
WF (Withdraw, failing) .....	0.0
I (Incomplete) .....	0.0
IP (In Progress) .....	0.0
S (Satisfactory) .....	0.0
U (Unsatisfactory) .....	0.0
V (Audit, no credit) .....	0.0
K (Credit by Examination) .....	0.0
NR (Grade Not Reported) .....	0.0

## Grade Symbols.

- # Optional provision (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.
- \* College preparatory curriculum. Course grade counted in computation of grade point average, but not in earned hours.

## Course Repeat Symbols.

- 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.)

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.). WF (Withdrew, Failing) is recorded for any student withdrawing after the mid-term date. Grades received in learning support courses are not computed in the grade point average. Exceptions to this policy must be approved by the dean of the college in which the course is taught and will be approved only on the basis of hardship.

## Incomplete Grade

An incomplete grade which 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 honor points earned by the total hours attempted on all course work taken at Armstrong Atlantic only.

**Transfer GPA.** Determined by dividing the total honor points earned by the total hours attempted on all transfer course work taken at other institutions.

**Overall GPA.** Determined by dividing the total honor points earned by the total hours attempted on all course work taken at Armstrong Atlantic and elsewhere.

## Honors

**Dean's List.** Students enrolled for at least nine semester hours of course work who earn a grade point average of at least 3.6 will be placed on the dean's list. Only course work taken at Armstrong Atlantic will be used in the computation of dean's list honors.

**Cum Laude.** Students graduating with a grade point average of 3.2 through 3.499 will graduate *cum laude*.

**Magna Cum Laude.** Students graduating with a grade point average of 3.5 through 3.799 will graduate *magna cum laude*.

**Summa Cum Laude.** Students graduating with a grade point average of 3.8 through 4.0 will graduate *summa cum laude*.

All work attempted at Armstrong Atlantic 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, even for students granted academic renewal.

## Overloads and Courses at Other Colleges

Permission to enroll for more than 17 semester hours will be granted by the registrar if a student:

- Has earned an average grade of B for full-time enrollment in the preceding semester; or
- Has earned an overall grade point average of 3.0; or
- 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. A student who is on academic probation will not be permitted to register for more than 17 semester hours. Exceptions to these limitations may be made only by the appropriate dean.

Students enrolled at Armstrong Atlantic who at the same time take courses for credit at other colleges or universities may not transfer such credit to Armstrong Atlantic, unless written permission from the appropriate dean has been obtained.

## Withdrawing from the University

Withdrawing from the university means that a student drops all courses for the current enrollment period. Any student who finds it necessary to withdraw should begin the withdrawal process in the Division of Student Affairs. Formal withdrawal from the university is required to ensure that the student is eligible to return to Armstrong Atlantic at a future date. Any refund to which a student is entitled will be considered on the basis of the date which appears on the formal withdrawal form. Grading procedures for withdrawing are the same as those listed for dropping a course.

## 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 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.

## Honor Code

The honor code at Armstrong Atlantic State University is dedicated to the proposition that the protection of the grading system is in the interest of the student community. The student court is an institutional means to assure that the student community shall have primary disposition of infractions of the honor code and that students accused of such infractions shall enjoy those procedural guarantees traditionally considered essential to fair and impartial hearing, the foremost of which is the presumption of innocence until guilt is established beyond a reasonable doubt.

### I. Responsibilities of Students

All students must agree to abide by the rules of the honor code. A student shall not be accepted at Armstrong Atlantic State University unless he or she signs a statement affirming his understanding of this agreement. The honor code shall be printed in the official bulletin and *Students Illustrated*.

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 fully the honor code and to allow full discussion of its requirements.

Any student desiring assistance with any matter related to the honor code is invited to seek assistance in the Division of Student Affairs.

## II. Violations of the Honor Code

Violations of the honor code may be of two kinds: (a) general and (b) those related to the peculiarities of specific course-related problems and to the understanding of individual instructors. Any instructor whose conception of cheating would tend to enlarge or contract the general regulations defining cheating must explicitly notify the affected students of the qualifications to the general regulations which he or she wishes to stipulate. The following will be considered general violations of the honor code.

1. Giving or receiving any unauthorized help on any assignment, test or paper. The meaning of unauthorized help shall be made clear by the instructor of each class.
2. Stealing when related to cheating.
3. Plagiarizing. *Plagiarism* is the unacknowledged use of another's words or ideas. Students must be familiar with the explanation of plagiarism given in the writing handbook used in freshman composition classes. Ignorance of what constitutes plagiarism will not be accepted as an excuse for plagiarism.
4. Giving perjured testimony before the student court.
5. Suborning, attempting to suborn, or intimidating witnesses.
6. Failing to report a suspected violation of the honor code.

## III. Reporting Violations of the Honor Code

Anyone wishing to report a violation may come to the Division of Student Affairs for assistance in contacting members of the student court.

- A. Self-reporting: Students who have broken the honor code should report themselves to a member of the student court.
- B. Anyone (faculty member or student) who is aware of a violation of the honor code must report the matter.
  1. Tell persons thought to be guilty to report themselves to a member of the student court no later than the end of the next school day. After this designated time, the person who is aware of the violation must inform a member of the student court so that the student court may contact the accused persons if they have not already reported themselves.
  2. Report the suspected violation directly to a member of the student court without informing the accused.

## IV. The Procedural Rights of the Students Accused of Violations of the Honor Code

The essence of the procedural rights of the accused is the right to be presumed innocent until proven guilty. Specific rights are as follows:

1. The accused will be notified in writing by the student court or its designated representative of the nature and details of the offense with which they are charged, along with the names of their accusers and the principal witnesses to be brought against them. This notification shall occur no less than three days prior to the date of the hearing.
2. The accused has the right to counsel of their own choosing. Such counsel will not participate directly in the proceedings except to advise the client. It is expected that such counsel 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 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 complete audiotape of the hearing and to the record prepared by the secretary.
  6. The substantive facts of a case may be re-opened for consideration upon initiation of the accused acting through normal appeal channels. 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. Witnesses may not discuss a pending case.
  8. By prior agreement, the accused will be allowed such observers of the hearing as may be commensurate with the space available. Otherwise, in the interests of the right of privacy of the accused, hearings will be private, except that the university may also have observers additional to the advisors to the student court.

## **V. 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 five teaching faculty members, the vice president for student affairs 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 shall be appointed by the faculty in accordance with the faculty statutes.
3. The vice president of 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 10 days in which to review the same.

### **B. Student Court**

1. The student court will be selected by the student conduct committee and will be composed of twelve students. Due consideration will be given to equitable apportionment of court 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 during spring semester in time for newly elected members of the court to assume their duties by May 1. Appointments will be made as needed to keep the student court staffed to do business on a reasonably prompt basis. 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. The secretary will maintain written notes of all proceedings and audiotape records of all testimony, and will maintain exhibits of evidence which by their nature may reasonably be maintained in the court files. 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. All other questions may be decided by a simple majority vote.
  3. Constituency of the student court during the summer semester shall include all appointed members in attendance, and others shall be appointed to membership by the student conduct committee.
  4. Student court members shall examine their consciences carefully to determine whether they can in good conscience serve on a panel hearing a particular case, and in the event that there is any doubt whatsoever, such members shall excuse themselves from duty on the specific 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 that position by the associate advisor. Therefore, after the initial appointments, only an associate advisor will ordinarily be appointed each year. The succession of an associate to the advisor position is deemed to occur on the last day of spring semester. If, for any reason, the advisor is unable to complete his or her term, the associate advisor shall succeed to the office of advisor and another associate advisor shall be appointed by the above procedures. If, during the summer semester, neither advisor is on campus, a temporary advisor will be appointed.
  3. Duties of the advisor and the associate advisor: It shall be the duty of the advisor to consult with the court and to offer advice to the president and 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 a matter of student responsibility.

## **VI. Procedures and Penalties Adopted by the Student Court**

The student court shall formulate its own bylaws governing internal organization and procedure. Such bylaws must be consistent with the honor code.

- A. Hearings shall be called by the court president to be held on a date not less than three nor more than ten class days after notice to the accused as provided in Section IV-2. Exceptions to these time requirements may be granted.
- B. Upon reaching a finding of guilty, the court shall make a recommendation to the vice president of the university as to the administrative action it deems appropriate within the following limitations:
  1. A minimum penalty shall be loss of assignment or test credit for the assignment or test for violations involving cheating as specified in Section II, subsections 1, 2, and 3. Additional penalties such as reprimands, suspension, or others may be recommended for any aspects of Section II.
  2. Maximum penalty for a first offense of any type shall be suspension for a full calendar year.
  3. Maximum penalty for a second offense may be suspension for three years.

- C. Immediately following a hearing, the accused will be informed of the court's finding and its recommendation to the vice president and dean of faculty. If the finding is guilty, the accused will be informed that the court may reopen the case with the consent of the accused for good cause, within a three week period.
- D. The vice president and dean of faculty will inform all involved persons in writing of the action taken in view of the court recommendation. The court secretary will post public notice of the vice president's action by case number without identifying the accused.

### **VII. Appeals of Findings and Penalties**

Should students have cause to question the findings of the court or the action of the vice president of the university or both, they have the right to appeal. The channels of appeal are as follows: Court findings and/or the administrative action of the vice president of the university may be appealed within five days by writing to the president of the university. Further appeal procedures will conform to the appeal procedures of the university and of the *Policies of the Board of Regents*, University System of Georgia.

### **VIII. Supervision of the Student Court**

As an institutional means of responding to reported infractions of the honor code, the student court is ultimately responsible to the president of the university.

Supervision of the student court will be accomplished ordinarily through the vice president for student affairs and the advisors.

In accordance with Article VI, Section F, of the *University Statutes*, the vice president for student affairs will provide general supervision of the student court and will provide other guidance or services as directed by the president of the university.

### **IX. Revision of the Honor Code**

Revision will require confirmation by the majority vote of those faculty and student body members voting.

## **Honors Program**

Armstrong Atlantic's honors program has rapidly developed into a vibrant community of students. The program offers talented and motivated students in every department and program at Armstrong Atlantic opportunities to take more challenging, smaller classes in the place of general education required courses, followed by opportunities to apply their intellectual curiosity to independent projects and special classes within their majors. Students are responsible for soliciting and evaluating suggestions for new courses, publishing newsletters and web pages, organizing social events, and reaching out to prospective honors program students. The honors program offers numerous opportunities for students interested in taking leadership positions on campus, as well as a number of opportunities beyond the classroom, including a special fall orientation, field trips, and social gatherings. Students are active in community service projects and participate in regional and national conferences. The program is based in the honors classroom and lounge, 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 125. A limited number of 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 coordinator of the honors program, Dr. Mark Finlay, 912/921-5642, (fax) 912/921-5581, or [mark\\_finlay@mailgate.armstrong.edu](mailto:mark_finlay@mailgate.armstrong.edu).

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

**Honors in the Core.** Honors students complete the honors in the core requirement by earning a B or better in four of the following courses:

- HIST 1112H - Honors Civilization II
- ENGL 1102H - Honors Composition II
- ENGL 2100H - Honors Literature
- MATH 1161 - Calculus I or MATH 2072 - Calculus II
- PSYC 1101H - Honors General Psychology
- CHEM 1212H - Honors Principles of Chemistry II

**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.

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

## 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 must submit to the cashier a completed application for graduation form **two semesters before graduation**. Candidates for degrees, unless excused in writing by the president, vice president and dean of faculty, vice president for student affairs, or dean of academic and enrollment services, must attend the graduation exercises at which degrees are to be conferred.

**Catalog in Effect.** Students will normally graduate under the catalog in effect at the time of their admission to the university. However, in light of semester conversion in fall 1998 and other issues, it is recommended that students meet with their academic advisors. In the College of Health Professions, students will graduate under the catalog in effect at the time of admission or readmission (whichever is more current) to a particular health professions program. In the College of Education, students will graduate under the catalog in effect at the time of admission to the teacher education program. However, Armstrong Atlantic 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. All new and readmitted students must follow semester requirements.

**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. However, all exceptions to core curriculum requirements must have the approval of the dean of the College of Arts and Sciences.

**Credit Hour Requirements.** To qualify for the baccalaureate degree, a student must earn at Armstrong Atlantic at least 30 semester hours of credit applicable toward the degree. Additionally, the student must complete successfully at Armstrong Atlantic 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 30 semester hours of course work at Armstrong Atlantic State University. Armstrong Atlantic students enrolled in the cooperative degree programs with Savannah State University's College of Business Education may be exempted from these requirements by a recommendation of the dean of the College of Education, concurrence by the education curriculum committee, and approval of the committee on academic standing.

**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. Only one major will appear on the diploma. Both majors will be designated on the transcript.

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

**History and Constitution Requirements.** By state law, every student who receives a diploma or certificate 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 and Regents' Test information.

**Maximum Hours by Correspondence, Extension, or Examination.** Not more than one-fourth of the work counted toward a degree may consist of courses taken by correspondence, extension, or examination. No correspondence courses may be used to meet the requirements in the major field or related fields for the bachelor's degree, or in English composition or foreign language. No correspondence courses may be taken while students are enrolled at Armstrong Atlantic without prior approval of the appropriate dean and department head.

**Minimum Grade Point Average.** Students must earn a grade point average of 2.0 or better in each of the following:

- all work at Armstrong Atlantic;
- overall (all course work attempted excluding repeats);
- all courses in the major field.

Some degrees have higher grade point average requirements. Check your program of study for complete details.

**Minors.** Armstrong Atlantic offers minors or minor concentrations in a number of academic areas. To earn minors students must complete all upper division requirements at Armstrong Atlantic.

**Physical Education Requirements.** All students who are enrolled in degree programs must adhere to the Armstrong Atlantic State University physical education requirements.

**Regents' Test.** All students must successfully complete the Regents' Test. (Please see Regents' Testing Program following the section on the core curriculum for details.) Candidates for a second baccalaureate degree are exempt from the Regents' Test requirement.

**Repeating Courses.** When a course is repeated, only the last grade earned counts in earned hours requirements, grade point average hours, points and overall grade point average. All course work taken remains on a students' academic records. Students may repeat any course. However, the grade earned in the last attempt will determine the number of quality points assigned for calculation of grade point average.

**Second Baccalaureate Degree.** A candidate for a second baccalaureate degree from Armstrong Atlantic State University must earn a minimum of 30 additional credit hours and meet all requirements for the degree. The final grade point average for the second baccalaureate degree will be based only on courses taken after completion of the first baccalaureate degree (whether courses were earned at Armstrong Atlantic or at another institution).

## General Education Outcomes

General education outcomes define the intellectual experience that Armstrong Atlantic 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 Atlantic 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 following general education outcomes include elements from both the university core and individual majors:

- A. Demonstrate computer literacy.
- B. Demonstrate effective oral and written communication.
- C. Demonstrate the effective use of traditional and modern sources of information.
- D. Develop an understanding and appreciation of literature and the arts.
- E. Examine the foundations of human values in relation to their moral and ethical implications for self and society.
- F. Exhibit knowledge of the history and politics that have shaped diverse societies and cultures.
- G. Exhibit a basic understanding of the sciences and their applications.
- H. Exhibit critical thinking skills and apply problem solving in a variety of situations.
- I. Apply mathematical principles and reasoning across disciplines.
- J. Understand the foundations of physical fitness and health.

## University Core Curriculum

The semester core curriculum at Armstrong Atlantic 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:

### Non-Science Majors

Art  
Criminal Justice  
Drama/Speech  
Economics  
Education  
English  
General Studies  
Health Science  
History  
Music  
Political Science  
Psychology  
Spanish

### Science Majors

Applied Physics  
Biology  
Chemistry  
Computer Science  
Mathematics  
Physical Therapy  
RETP (pre-engineering)

### Clinical Health Majors

Dental Hygiene  
Medical Technology  
Nursing  
Radiologic Technologies  
Respiratory Therapy

### Core Curriculum Notes.

- Precalculus is required for majors in applied physics, biology, chemistry, computer science, mathematics, physical therapy, and radiologic sciences.
- Calculus is required for RETP 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 and a specified math course; statistics is required for biology and physical therapy majors; calculus I is required for majors in applied physics, chemistry, computer science, and mathematics; calculus II is required for RETP.
- Clinical health majors must take a chemistry or physics sequence; the third course must be statistics.
- 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 a program of study.

**Core Area A:**

<b>Essential Skills</b>	<b>9 hours</b>
ENGL 1101 - Composition and Rhetoric .....	3 hours
ENGL 1102 - Composition and Literature .....	3 hours
One course selected from	
MATH 1111 - College Algebra .....	3 hours
or	
MATH 1113 - Pre-calculus Mathematics	
<i>Required for applied physics, biology, chemistry, computer</i>	
<i>science, health, mathematics, and physical therapy majors</i>	
MATH 1161 - Calculus I .....	4 hours
<i>Required for RETP students</i>	

**Core Area B:**

<b>Institutional Options</b>	<b>4-5 hours</b>
<b>Ethics and Values</b> .....	2-3 hours
One course selected from:	
CHEM 2600 - Ethical Theories and Moral Issues in the Sciences	
ETHC 2000 - Interdisciplinary Ethics	
PHIL 2251 - Introduction to Ethics and Contemporary Moral Philosophy	
POLS 2390 - Human Values and Public Problems	
POLS 1200 - Ethical Theories and Moral Issues in Government	
<b>Global Perspectives</b> .....	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 1150 - Global Economic Problems	
ENGL 2205 - Africa and the Diaspora	
GEOG 1100 - World Regional Geography	
HIST 1111 - Civilization I	
HIST 1112 - Civilization II	
HONS 2000 - Honors Topics in Global Perspectives	
POLS 1150 - World Politics	
PUBL/POLS 2250 - International Organizations	

**Core Area C:**

<b>Humanities &amp; Fine Arts</b>	<b>6 hours</b>
<b>Literature or Philosophy</b> .....	3 hours
One course selected from:	
ENGL 2100 - Literature and Humanities	
PHIL 2201 - Introduction to Philosophy	
PHIL 2251 - Introduction to Ethics and Contemporary Moral Philosophy	
<b>Art, Music or Theatre</b> .....	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 1. Non-Science Majors:**

One lab science course selected from: ..... 4 hours

- BIOL 1107 - Principles of Biology I
- CHEM 1151/1151L - Survey of Chemistry I
- CHEM 1211/1211L - Principles of Chemistry I
- PHYS 1111/1111L - Introductory Physics I
- PHYS 2211- 2211L - Principles of Physics I
- PHSC 1211/1211L - Physical Environment
- PHSC 1212/1212L - Chemical Environment

One science course selected from: ..... 3-4 hours

- BIOL 1107 - Principles of Biology I
- BIOL 1108 - Survey of the Animal Kingdom
- BIOL 1120 - The Diversity of Life
- BIOL 1121- Human Biology
- BIOL 1122 - Environmental Biology
- CHEM 1151/1151L - Survey of Chemistry I
- CHEM 1152/1152L - Survey of Chemistry II
- CHEM 1211/1211L - Principles of Chemistry I
- CHEM 1212/1212L - Principles of Chemistry II
- PHYS 1111/1111L - Introductory Physics I
- PHYS 1112/1112L - Introductory Physics II
- PHYS 2211/2211L - Principles of Physics I
- PHYS 2212/2212L - Principles of Physics II
- PHSC 1211 - Physical Environment
- PHSC 1212 - Chemical Environment
- SCIE 1000 - Introduction to Scientific Inquiry
- ASTR 1010 - Astronomy of the Solar System
- GEOL 2010 - Introduction to Physical Geology

One course in mathematics, science, or technology chosen from: ..... 3 hours

- BIOL 1107 - Principles of Biology I
- BIOL 1108 - Survey of the Animal Kingdom
- BIOL 1120 - The Diversity of Life
- BIOL 1121 - Human Biology
- BIOL 1122 - Environmental Biology
- CHEM 1211/1211L - Principles of Chemistry I
- CHEM 1212/1212L - Principles of Chemistry II
- PHYS 1111/1111L - Introductory Physics I
- PHYS 1112/1112L - Introductory Physics II
- PHYS 2211/2211L - Principles of Physics I
- PHYS 2212/2212L - Principles of Physics II
- PHSC 1211 - Physical Environment
- PHSC 1212 - Chemical Environment
- SCIE 1000 - Introduction to Scientific Inquiry
- ASTR 1010 - Astronomy of the Solar System
- GEOL 2010 - Introduction to Physical Geology
- MATH 1113 - Precalculus Mathematics
- MATH 1161 - Calculus I
- MATH 1950 - Applied Mathematics for Non-Science Majors
- MATH 2220 - Elementary Statistics
- MATH/CSCI 2252 - Computational Methods in Statistics
- MATH 2900 - The Spirit and Structure of Mathematics
- CSCI 1301 - Introduction to Programming Principles

**Option 2****a. Science Majors:**

Laboratory science sequence ..... 8 hours

- BIOL 1107 - Principles of Biology I



- BIOL 1108 - Survey of the Animal Kingdom
- CHEM 1211/1212 (and labs) - Principles of Chemistry I/II
- PHYS 1111/1112 (and labs) - Introductory Physics I/II
- PHYS 2211/2212 (and labs) - Principles of Physics I/II
- One course in mathematics, science, or technology ..... 3 hours
- MATH 1161 - Calculus I  
*Required for applied physics, chemistry, computer science, and mathematics majors*
- MATH 2072 - Calculus II  
*Required for RETP students*
- MATH 2220 - Elementary Statistics  
*Required for biology and physical therapy majors*
- b. Clinical Health Majors:**
- Chemistry or physics sequence ..... 8 hours
- CHEM 1151/1152 (and labs) - Survey of Chemistry I/II
- CHEM 1211/1212 (and labs) - Principles of Chemistry I/II
- PHYS 1111/1112 (and labs) - Introductory Physics I/II
- PHYS 2211/2212 (and labs) - Principles of Physics I/II
- One course in mathematics, science, or technology ..... 3 hours
- MATH 2220 - Elementary Statistics

**Core Area E:**

- Social Sciences** ..... **12 hours**
- American and Georgia History and Constitution** ..... 3 hours
- HIST/POLS 1100 - Political History of Georgia
- World Civilization** ..... 3 hours
- One course selected from:
- HIST 1111 - Civilization I
- HIST 1112 - Civilization II
- Social Sciences** ..... 3 hours
- One course selected from:
- ANTH 1102 - Introduction of Anthropology
- ECON 2105 - Principles of Macroeconomics
- ECON 2106 - Principles of Microeconomics
- PSYC 1101 - General Psychology
- SOCI 1101 - Introductory Sociology
- Social Sciences** ..... 3 hours
- One course selected from:
- ANTH 1102 - Introduction to Anthropology
- ECON 2105 - Principles of Macroeconomics
- ECON 2106 - Principles of Microeconomics
- PSYC 1101 - General Psychology
- SOCI 1101 - Introductory Sociology
- HIST 1111 - Civilization I
- HIST 1112 - Civilization II
- HIST 2111 - History of America to 1877
- HIST 2112 - History of America since 1865
- POLS 2100 - Introduction to Political Science

**Core Area F:**

- Courses Suitable to the Major** ..... **18 hours**
- Physical Education** ..... **3 hours**

## Regents' Testing Program

Each institution of the University System of Georgia shall assure the other institutions, and the university system as a whole, that students obtaining a degree from that institution possess certain minimum reading and writing skills. The Regents' Testing Program has been developed to help attain this goal. The objectives of the testing program are: (1) to provide system-wide information on student competence in reading and writing; and (2) to provide a uniform means of identifying students who fail to attain the minimum levels of reading and writing competence.

Students enrolled in undergraduate degree programs leading to the baccalaureate degree shall pass the Regents' Test as a requirement for graduation. Students must take the test in their first semester of enrollment after earning 30 credit hours if they have not taken it previously. (Institutions may not prohibit students who have earned at least 30 credit hours from taking the test for the first time.) At an institution's discretion, students may be permitted to take the test during a semester in which they are not enrolled.

Each institution shall provide an appropriate remediation program and shall require students who have not passed both parts of the test by the time they have earned 45 credit hours to take the appropriate remedial course(s) every semester of enrollment until they have passed both parts.

Students with 30 or more semester credit hours transferring from outside of the University System of Georgia or from university system programs that do not require the Regents' Test should take the test during their first semester of enrollment in a program leading to the baccalaureate degree. Those who have not passed before their third semester of enrollment are subject to the remediation requirement.

The Regents' Test is not a system-wide requirement for an associate of applied science degree or an associate of science degree in an allied health field, **although institutions may choose to require the test for these degrees.**

Students holding baccalaureate or higher degrees from regionally accredited institutions of higher education will not be required to complete the Regents' Test in order to receive degrees from University System of Georgia institutions.

The Chancellor will issue administrative procedures for the operation of the Regents' Testing Program. According to *Regents' Testing Program Administration Procedures*, institutions may increase requirements related to the Regents' testing program, "provided that such increased requirements are authorized by the Chancellor and published in the official catalog of the institution prior to implementation." **Armstrong Atlantic State University has chosen to require the test of all undergraduates who have not earned a baccalaureate or higher degree regardless of degree objective.**

### Testing and Remediation Requirements.

1. Students in programs leading to the baccalaureate degree who have not taken the Regents' Test must take the test during the semester of enrollment immediately following the completion of 30 college-level semester credit hours. (College-level credit hours include all credit with the exception of institutional credit.) Students attending Armstrong Atlantic State University are encouraged to take the Regents' Test during their semester of enrollment in ENGL 1102, but not later than their 30<sup>th</sup> credit hour. This requirement applies whether or not students have taken or passed specific courses, including English courses, or completed any institutional requirements. Associate degree candidates should see (8).
2. Passing the Regents' Test is defined as having passed both parts of the test by scoring at or above the minimum passing score specified for each component. If one component of the test has been passed, that component need not be retaken.
3. Students who have earned 45 college-level semester credit hours and have not passed the Regents' Test shall take the appropriate non-degree credit course(s) in remedial reading and/or writing in every semester of attendance until they have passed all components of the test.
4. Students with 45 college-level semester credit hours who have not passed either part of the test are required to take remediation in both reading and writing each semester. Excepted from this are students taking one remedial course and no college-level credit courses.

5. Students with fewer than 45 semester hours of college-level credit are not required by the Board of Regents to take remediation and may be permitted to retake the test without remediation. However, Armstrong Atlantic State University students may (a) be required to take remediation; or (b) be eligible to appeal required remediation; or (c) be able to schedule remediation at their convenience as long as they have fewer than 45 semester credit hours.
6. First-time examinees must take both parts of the test. Students may take the test before they have earned 30 hours, while enrolled in ENGL 1102. Students may take the test during a semester in which they are not enrolled. Students who have failed both parts of the Regents' Test may take the reading and essay portions of the test in separate semesters.
7. Passage of the Regents' Test shall not be a condition of transfer into an institution. All transferring students from programs leading to the baccalaureate degree within the University System of Georgia shall be subject to all provisions of this policy. Students with 30 or more semester credit hours transferring from university system programs that do not require the Regents' Test or from institutions outside the system should take the test during their first semester of enrollment in a program leading to the baccalaureate degree. Those who have not passed before their third semester of enrollment are subject to the remediation requirement. Associate degree candidates should see (8).
8. The Regents' Test is not a requirement of the Board of Regents for an associate of applied science degree or an associate of science degree in an allied health field, although institutions may choose to require the test for these degrees. **The Regents' Test is a requirement of Armstrong Atlantic State University for all undergraduates who have not earned a baccalaureate or higher degree regardless of degree objective.**

#### **Guidelines for Remedial Courses.**

1. Separate courses in remediation for the reading (RGTR 0198) and the essay (RGTR 0199) portions of the test are to be provided. Courses developed for other purposes, such as those for learning support or regular credit English, may not be used to fulfill Regents' Test remediation requirements.
2. Regents' Test remedial courses are to be classified as a regular part of students' academic loads, resulting in institutional credit, and should be handled as part of the regular registration procedure.

#### **Special Categories of Students.**

1. Students holding baccalaureate or higher degrees from accredited institutions of higher education will not be required to complete the Regents' Test in order to receive a degree from a University System of Georgia institution.
2. Each institution may develop special procedures for certifying the competence of students whose native language is not English. Granting extended time and allowing use of translation dictionaries are permissible accommodations for the essay examination.
3. Each institution shall develop special procedures for certifying the competence of students with disabilities. Students who are eligible should consult the director of disability services.
4. Students who took the Regents' Test before fall quarter, 1980, and who failed the reading portion of the Regents' Test shall not be held to a higher passing standard at a subsequent retaking of the test than was in effect at the time of their original attempt.
5. Students who have moved out of state after completing all requirements for graduation with the exception of the Regents' Test requirement may be permitted to have the Regents' Test administered out of state if they have fulfilled remediation requirements and follow the procedures outlined in the *Regents' Testing Program Administration Manual*. (For information, consult the Regents' Test administrator in the Division of Student Affairs.)

**Essay Review.** Students may request a formal review of failure on the essay component of the Regents' Test if that essay received at least one passing score among the three scores awarded. The review procedure shall be as follows:

1. Students must request the review by mid-term of the first semester of enrollment after the semester in which the essay was failed. The review must be initiated, however, **within one calendar year** from the semester in which the essay failure occurred. Students at Armstrong

- Atlantic may request an essay review in the Division of Student Affairs. Only reviews processed in the first two weeks of the semester will be answered before the next Regents' Test.
2. All applicable regulations of the Regents' Test policy remain in effect for students whose essays are under review, including those regulations concerning remediation and retaking the test.
  3. Review is initiated at the campus level, with procedural matters to be determined by the institution. The on-campus review will be conducted by three faculty members designated by the institution as a review panel. The on-campus review panel may (a) sustain, by majority opinion, the essay's failing score, thus terminating the review process; or (b) recommend, by majority opinion, the re-scoring of the essay by the Regents' testing program central office. Students will be notified of the results of the on-campus review. A decision by the on-campus review panel to terminate the review process is final.
  4. If the on-campus panel recommends that the essay be re-scored, that recommendation will be transmitted in writing, along with the essay, to the office of the system director of the Regents' testing program. The director will engage three experienced Regents' essay scorers (not those involved in the original scoring of the essay) to review the essay following normal Regents' Test essay scoring procedures. The decision of this panel on the merits of the essay will be final, thus terminating the review process. Students will be notified of review results through the institution (Armstrong Atlantic).

**Health Professions Program Requirement.** Before students in health professions programs may enter their last semester, they must have passed the Regents' Test.

## State Requirement In History and Constitution

By state law, every student who receives a diploma or certificate 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 Atlantic State University may demonstrate such proficiency in one of the following ways:

- successfully complete HIST/POLS 1100 at Armstrong Atlantic;
- 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;
- earn an acceptable score on the CLEP: American government exam and pass a local test on the Georgia constitution.

## 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), 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.

## Degree Programs

The degree programs of Armstrong Atlantic State University are here presented by college and department. (For an alphabetical listing by academic subject, see the front of the catalog.) Minor and certificate programs are listed in their sponsoring departments. The university is organized

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

## College of Arts and Sciences

<b>Degree</b>	<b>Department</b>
Associate of Arts	Interdepartmental
Associate of Applied Science in Criminal Justice	Criminal Justice, Social and Political Science
Bachelor of Arts in:	
Art	Art, Music, and Theatre
Drama/Speech	Art, Music, and Theatre
Economics	Economics
English	Languages, Literature, and Philosophy
English (Communications)	Languages, Literature, and Philosophy
English with Teacher Certification	Languages, Literature, and Philosophy
History	History
History with Teacher Certification	History
Music	Art, Music, and Theatre
Political Science	Criminal Justice, Social and Political Science
Political Science (Public Administration)	Criminal Justice, Social and Political Science
Political Science with Teacher Certification	Criminal Justice, Social and Political Science
Psychology	Psychology
Psychology Leading to Teacher Certification in Special Education: Behavior Disorders	Psychology
Spanish	Languages, Literature, and Philosophy
Spanish with Teacher Certification (P-12)	Languages, Literature, and Philosophy
Bachelor of General Studies	Interdepartmental
Bachelor of Music Education	Art, Music, and Theatre
Bachelor of Science in:	
Applied Physics	Chemistry and Physics
Biology	Biology
Biology with Teacher Certification	Biology
Chemistry	Chemistry and Physics
Chemistry with Teacher Certification	Chemistry and Physics
Computer Science	Computer Science
Criminal Justice	Criminal Justice, Social and Political Science
Mathematical Sciences	Mathematics
Mathematical Sciences with Teacher Certification	Mathematics
Bachelor of Science in Education in Art Education	Art, Music, and Theatre
Master of Arts in History	History
Master of Science in Criminal Justice	Criminal Justice, Social and Political Science

## College of Education

<b>Degree</b>	<b>Department</b>
Bachelor of Science in Education in:	
Art Education (P-12)	Early Childhood Education
Early Childhood Education (PK-5)	Early Childhood Education
Middle Grades Education (4-8)	Middle/Secondary Education
Business Education*	Middle/Secondary Education
Health and Physical Education	Health and Physical Education
Social Science Education	Middle/Secondary Education
Speech-Language Pathology	Special Education
Master of Education in:	
Elementary Education	Early Childhood Education
Middle Grades Education	Middle/Secondary Education
Secondary Education	
Business Education*	Middle/Secondary Education
English Education	Middle/Secondary Education
Mathematics Education	Middle/Secondary Education
Broadfield Science Education	Middle/Secondary Education
Broadfield Social Science Education	Middle/Secondary Education
Special Education	
Behavior Disorders	Special Education
Learning Disabilities	Special Education
Speech/Language Pathology	Special Education

**Other Degree Programs.** The College of Education, working with the College of Arts and Sciences, provides baccalaureate degrees with teacher certification in the secondary fields of biology, chemistry, English, history, mathematical sciences, music, political science, and Spanish; and in psychology leading to special education certification for behavior disorders. See the departmental sections in the College of Arts and Sciences listings for degree particulars.

*\*Offered in conjunction with Savannah State University.*

## College of Health Professions

<b>Degree</b>	<b>Department</b>
Associate of Science in Dental Hygiene	Dental Hygiene
Bachelor of Health Science	Health Science
Bachelor of Science in:	
Dental Hygiene Education	Dental Hygiene
Medical Technology	Medical Technology
Nursing	Nursing
Physical Therapy*	Physical Therapy
Radiologic Technologies	Radiologic Sciences
Respiratory Therapy	Respiratory Therapy
Master of Health Services Administration	Health Science
Master of Public Health	Health Science
Master of Science in:	
Nursing	Nursing
Physical Therapy	Physical Therapy

*\*Awarded only in conjunction with the master's degree in physical therapy.*

# School of Graduate Studies

Emma Simon, Dean

## Philosophy and Goals

Graduate programs at Armstrong Atlantic State University are designed to provide students with the opportunity and resources to enhance their educational, professional, and cultural backgrounds while improving their professional skills and competence. Graduate programs encourage scholarly inquiry through the appropriate application of valid research methods.

## Degrees

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

Master of Arts

History

Master of Education

Elementary Education

Middle Grades Education

Secondary Education

Business Education\*

English Education

Mathematics Education

Broadfield Science Education

Broadfield Social Science Education

Special Education

Behavior Disorders

Learning Disabilities

Speech/Language Pathology

Master of Health Services Administration

Master of Public Health

Master of Science

Criminal Justice

Nursing

Physical Therapy

*\*Offered in conjunction with Savannah State University.*

## Admission to Graduate Study

Graduates of colleges or universities accredited by a regional accrediting association may apply for admission to the School of Graduate Studies. Admission is restricted to include only those students whose academic records indicate that they can successfully complete graduate work.

**Immunization Requirements.** In order to comply with University System of Georgia policies, all new students attending Armstrong Atlantic State University will be required to submit a Certificate of Immunization for measles, mumps, and rubella prior to registering for classes.

## Graduate Catalog

Please refer to the Armstrong Atlantic 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.

Copies of the graduate catalog are available from:

School of Graduate Studies  
Armstrong Atlantic State University  
Savannah, GA 31419  
912/927-5377

or

Office of Admissions  
Armstrong Atlantic State University  
Savannah, GA 31419  
912/927-5277  
800/633-2349

# College of Arts and Sciences

Grace Martin, Interim Dean  
Henry Harris, Associate Dean

## Philosophy and Goals

The College of Arts and Sciences offers students a broad range of educational opportunities in course offerings encompassing the scope of human thought and knowledge. The college provides the core curriculum of the university – courses in the arts, humanities, mathematics, natural sciences, and social sciences required of all students. (For details, see General Education Outcomes in this catalog.) Beyond these basics, arts and sciences curricula enable students to pursue studies in their chosen majors, exploring theories, methodologies, and broader implications under the guidance of trained scholars and researchers. Major programs may culminate in a “senior experience” – an internship, a capstone course, or a senior thesis – designed to help students comprehend their fields as a whole.

Courses of study are designed to cultivate critical thinking, problem-solving skills, and ethical sensitivity in order to equip students for careers, provide a foundation for graduate or professional study, and create life-long learners. Academic offerings are supplemented by an annual schedule of more than one hundred lectures, field trips, faculty and student recitals and concerts, plays and exhibits – most open to the general public.

## Organization and Degrees

The College of Arts and Sciences includes the Departments of Art, Music and Theatre; Biology; Chemistry and Physics; Computer Science; Criminal Justice, Social and Political Science; Economics; History; Languages, Literature, and Philosophy; Mathematics; Psychology; and Military Science. In addition, degree programs in General Studies provide an opportunity for broader sampling of the fields listed. The degrees offered in the College of Arts and Sciences are as follows:

Associate of Arts

Associate of Applied Science in Criminal Justice

Bachelor of Arts in:

Art

Drama/Speech

Economics

English

English (Communications)

English with Teacher Certification

History

History with Teacher Certification

Music

Political Science

Political Science (Public Administration)

Political Science with Teacher Certification

Psychology

Psychology Leading to Teacher Certification in Special Education: Behavior Disorders

Spanish

Spanish with Teacher Certification (P-12)

Bachelor of General Studies

Bachelor of Music Education

Bachelor of Science in:

Applied Physics

Biology

Biology with Teacher Certification



Chemistry  
Chemistry with Teacher Certification  
Computer Science  
Criminal Justice  
Mathematical Sciences  
Mathematical Sciences with Teacher Certification  
Bachelor of Science in Education in:  
Art Education (P-12)  
Master of Arts in History  
Master of Science in Criminal Justice

Those interested in detailed information on graduate programs should refer to the School of Graduate Studies section of this catalog and to the Armstrong Atlantic 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 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 Arts and Sciences 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.

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## GENERAL STUDIES

Richard Nordquist, Director

### General Information

General Studies associate and baccalaureate degree programs operate under the general guidance of the dean of the College of Arts and Sciences and the immediate supervision of the director of General Studies. Two general studies degrees are offered: the associate of arts, providing a substantial liberal education as a base for upper-division specialization; and the bachelor of general 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 general studies director 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 general studies degree may be satisfied through successful completion of Armstrong Atlantic-approved examinations and university-level independent study courses. To accommodate the needs of nontraditional students, advisement sessions can be scheduled during the evenings and on Saturdays, as well as on weekdays. Interested students should contact the director to schedule appointments.

### Special Programs

The associate of arts degree is also available through the Liberty Center in Hinesville, Georgia. For further information, contact the Armstrong Atlantic counselor at the Fort Stewart Army Education Center.

The bachelor of general studies degree is also available at the Brunswick Center on the campus of Coastal Georgia Community College in Brunswick, Georgia. Contact the director of the Brunswick Center for more information.

### Progress Requirements

For the associate of arts degree, students must complete at least 18 semester hours of required course work and 27 hours of all course work in this program at Armstrong Atlantic State University.

For the bachelor of general studies degree, students must submit degree proposals to the general studies director for approval at least two semesters prior to anticipated graduation. No more than two Ds in the major may be earned in general studies courses, 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, and E) ..... 42 hours
  - Physical Education ..... 2 hours
  - B. Courses in the Concentration and/or Electives ..... 18 hours
- Students planning work toward a baccalaureate degree should select courses that meet listed requirements of that degree program.

**Total Semester Hours** 62 hours

### PROGRAM FOR THE DEGREE OF BACHELOR OF GENERAL STUDIES

- A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hours
- Core Area F ..... 18 hours

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
- PHIL 2201 - Introduction to Philosophy
- PHIL 2251 - Ethics and Contemporary Moral Philosophy
- THEA 1100 - Theatre Appreciation
- THEA 1200 - Introduction to Theatre
- Two foreign language courses in sequence (numbered 1002 and higher)

Two courses selected from:

- ANTH 1102 - Introduction to Anthropology
- CSCI 1050 - Introduction to Computer Concepts and Applications
- CSCI 1060 - Computer Concepts and Applications for Science Students
- CSCI 1301 - Introduction to Programming Principles
- ECON 2105 - Principles of Macroeconomics
- ECON 2106 - Principles of Microeconomics
- HIST 2111 - History of America to 1877
- HIST 2112 - History of American Since 1865
- PSYC 1101/H - General Psychology/Honors
- SOCI 1101 - Introductory Sociology

Any two core area D courses (not used for core area D)

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

### 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 D's in the General Studies section
- At least 9 of the 18 hours in the General Studies section must be completed at Armstrong Atlantic

**General 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, public history, 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

**Area of Concentration ..... 15-18 hours**

Any University System approved minor

No grade lower than C

**C. Electives ..... 24-27 hours**

**Total Semester Hours 123**

**D. Regents' Test and Exit Exam**

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**ART, MUSIC, AND THEATRE**

**Faculty**

James Anderson, Department Head

Scott Buchanan

Tom Cato

Rachel Green

Kevin Hampton

Robert Harris

John Jensen

Linda Jensen

Mark Johnson

Peter Mellen

Jill Miller

Randall Reese

John Schmidt

Lucinda Schultz

**Accreditation**

Programs in music are accredited by the National Association of Schools of Music for the period 1995-2005.

**General Information**

The Department of Art, Music, and Theatre offers the bachelor of arts degree with majors in art, music, and drama/speech; the bachelor of music education degree; and in cooperation with the College of Education, the bachelor of science in education in art education.

**Special Programs**

Directed individual study (DIS) has a distinctly useful place in the art, music, and theatre curriculum. The DIS provides an enrichment experience otherwise unavailable in the classroom. Normally, regular curriculum coursework should not be completed by individual study.

## Admission Requirements

College-level study of art, music, and theatre requires considerable background as well as basic proficiency. Students wishing to major in art are expected to present a portfolio of previous work in at least one medium. All entering students in music (including transfer students) must take placement examinations as appropriate in applied music, music theory, and music history. 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.

## Minors

<b>Art</b> .....	<b>18 hours</b>
ARTS 1020 or ARTS 1030	
ARTS 2710 or ARTS 2720	
One lower division studio art course	
Three upper division art courses from the art studio and/or art history areas	
<b>Theatre</b> .....	<b>15 hours</b>
Three semester hours from: THEA 1100, 1200, 2270, 2410	
Twelve semester hours from: any 3000-4000 level THEA courses	

## PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ART

### A. General Requirements

<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
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	
<b>Physical Education</b> .....	<b>3 hours</b>

### B. Major Field Courses .....

<b>39 hours</b>
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 3750 - Contemporary Art & Criticism
ARTS 4700 - Senior Portfolio
Two studio courses (3000 and above) from one of the following areas: drawing and painting, sculpture, ceramics, crafts, or photography

<b>C. Related Field Courses</b> .....	<b>6 hours</b>
Foreign Language 1002 - Elementary Language II	
Foreign Language 2001 - Intermediate Language I	
<b>D. Electives</b> .....	<b>15 hours</b>
15 semester hours of courses at the 3000 level or above	

**Total Semester Hours** **123 hours**

**E. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC**

<b>A. General Requirements</b>	
<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
MUSC 1111 - Music Theory I	
MUSC 1112 - Music Theory II	
MUSC 1130 (2 semesters) - Keyboard Harmony	
MUSC 1400 (2 semesters) - Applied Music	
MUSC 2111 - Intermediate Theory I	
MUSC 2130 (1 semester) - Advanced Keyboard Harmony	
MUSC 2400 (1 semester) - Applied Music	
MUSC 2540 - Concert Choir <b>or</b> 2560 (3 semesters) - Wind Ensemble	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>27 hours</b>
MUSC 1000 (7 semesters) - Recital Attendance	
MUSC 2112 - Intermediate Theory II	
MUSC 2130 (2 semesters) - Advanced Keyboard Harmony (in addition to Area F requirements)	
MUSC 2400 (1 semester) - Applied Music (in addition to Area F requirement)	
MUSC 2540 (1 semester) - Concert Choir <b>or</b> MUSC 2560 (1 semester) - Wind Ensemble (in addition to Area F requirement)	
MUSC 2810 - Conducting	
MUSC 3400 (2 semesters) - Applied Music	
MUSC 3710 - Music History I	
MUSC 3720 - Music History II	
MUSC 3540 (2 semesters) - Concert Choir <b>or</b> MUSC 3560 (2 semesters) - Wind Ensemble	
Two courses selected from:	
MUSC 3120 - Form and Analysis	
MUSC 3610 - Orchestration and Arranging	
MUSC 4120 - Counterpoint	
One course selected from:	
MUSC 4160 - Topics in Repertoire and Techniques	
MUSC 4250 - Piano Pedagogy	
MUSC 4270 - Vocal Pedagogy	
<b>C. Concentration Electives</b> .....	<b>21 hours</b>
Select one of the following track options:	
<b>Liberal Arts</b>	
21 hours of electives with 18 semester hours at the 3000 level or above and at least one music course at the 3000 level or above	
<b>Keyboard Performance</b>	
MUSC 2580 - Keyboard Accompanying	
MUSC 4200 - Piano Literature I	
MUSC 4210 - Piano Literature II	
MUSC 4400 (2 semesters) - Applied Music	
11 hours of electives with 10 semester hours at the 3000 level or above	

**Vocal Performance**

MUSC 2171 - Lyric Diction I

MUSC 2172 - Lyric Diction II

MUSC 4400 (2 semesters) - Applied Music

One course selected from: (cannot be duplicated with major courses)

MUSC 3120 - Form and Analysis

MUSC 3610 - Orchestration &amp; Arranging

MUSC 4120 - Counterpoint

11 hours of electives at the 3000 level or above

**Instrument Performance (Wind or Percussion)**

MUSC 4400 (2 semesters) - Applied Music

MUSC 4810 - Advanced Instrumental Conducting

One course selected from: (cannot be duplicated with major courses)

MUSC 3120 - Form and Analysis

MUSC 3610 - Orchestration &amp; Arranging

MUSC 4120 - Counterpoint

13 hours of electives with 10 semester hours at the 3000 level or above

**Composition**

MUSC 4110 (8 semester hours) - Composition

One course selected from: (cannot be duplicated with major courses)

MUSC 3120 - Form and Analysis

MUSC 3610 - Orchestration &amp; Arranging

MUSC 4120 - Counterpoint

11 hours of electives with 10 semester hours at the 3000 level or above

**D. Related Field Courses ..... 12 hours**

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language I

ARTS 2720 - Art History II

ARTS 3750 - Contemporary Art and Criticism

**Total Semester Hours****123 hours****E. Regents' Test, General Education Exit Exam, Piano Proficiency Exam, Major Field Exit Exam, and Graduation Recital****PROGRAM FOR THE DEGREE OF BACHELOR OF MUSIC EDUCATION****A. General Requirements****Core Areas A, B, C, D, and E ..... 42 hours****Area F ..... 18 hours**

MUSC 1111 - Music Theory I

MUSC 1112 - Music Theory II

MUSC 1130 (2 semesters) - Keyboard Harmony

MUSC 2111 - Intermediate Theory I

MUSC 2130 (1 semester) - Advanced Keyboard Harmony

MUSC 1400 (2 semesters) - Applied Music

MUSC 2400 (1 semester) - Applied Music

MUSC 2540 (3 semesters) - Concert Choir or 2560 (3 sem) - Wind Ensemble

**Physical Education ..... 3 hours****B. Major Field Courses ..... 34 hours**

MUSC 1000 (7 semesters) - Recital Attendance

MUSC 2112 - Intermediate Theory II

MUSC 2130 (1 semester) - Advanced Keyboard Harmony (in addition to Area F requirement)

MUSC 2360 - Brass Methods

MUSC 2370 - Woodwind Methods

MUSC 2380 - Percussion Methods

- MUSC 2390 - String and Guitar Methods  
 MUSC 2400 (1 semester) - Applied Music (in addition to Area F requirement)  
 MUSC 2540 - Concert Choir (1 semester) **or** MUSC 2560 (1 semester) - Wind Ensemble  
 (in addition to Area F requirement)  
 MUSC 2810 - Conducting  
 MUSC 3120 - Form and Analysis  
 MUSC 3300 - Music Teaching in Lower Schools I  
 MUSC 3310 - Music Teaching in Middle and High School  
 MUSC 3400 - (2 semesters) - Applied Music  
 MUSC 3540 - Concert Choir **or** MUSC 3560 (2 semesters) Wind Ensemble  
 MUSC 3610 - Orchestration and Arranging  
 MUSC 3710 - Music History I  
 MUSC 3720 - Music History II  
 MUSC 4120 - Counterpoint

**C. Concentration Electives** ..... 12 hours

**Select one of the following track options:**

**Choral**

- MUSC 1300 (2 semesters voice or piano) - Applied Music  
 MUSC 2171 - Lyric Diction I  
 MUSC 3340 - Choral Methods  
 MUSC 4230 - Choral Repertoire  
 MUSC 4270 - Vocal Pedagogy  
 MUSC 4800 - Advanced Choral Conducting

**Instrumental**

- MUSC 1300 (2 semesters woodwinds, brass or percussion) - Applied Music  
 MUSC 2270 - Class Voice (two semesters)  
 MUSC 3330 - Band Methods  
 MUSC 4240 - Band Repertoire  
 MUSC 4280 - Marching Band Techniques  
 MUSC 4810 - Advanced Instrumental Conducting

**Elementary**

- MUSC 1300 **and/or** MUSC 2240 - Class Guitar  
 (2 semesters in two secondary areas selected from piano accompanying, voice, guitar)  
 MUSC 2171 - Lyric Diction  
 MUSC 3320 - Music Teaching in Lower Schools II  
 One course sequence selected from:  
 MUSC 3340 - Choral and Music Methods in Secondary Schools **and**  
 MUSC 4800 - Advanced Choral Conducting  
**or** MUSC 3330 - Band Methods **and**  
 MUSC 4810 - Advanced Instrumental Conducting

**D. Related Field Courses** ..... 21 hours

- PSYC 1101 or 1101H - General Psychology/Honors  
 CEUG 1010 - Human Growth and Development  
 CEUG 2100 - Teaching and the Exceptional Child  
 CEUG 4110 - Student Teaching P-12  
 CEUG 4630 - Classroom Management P-12

**Total Semester Hours**

**130 hours**

**E. Regents' Test, General Education Exit Exam, Teaching Portfolio, Current Certification in CPR/First Aid, Orientation to Teaching or equivalent, Admission to Teacher Education including Praxis I, Piano Proficiency Exam, Praxis II Exit Exam, Graduation Recital**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
EDUCATION IN ART EDUCATION**

**A. General Requirements**

Core Areas A, B, C, D and E .....	42 hours
Area F .....	18 hours
ARTS 1020 - 2D Design	
ARTS 1030 - 3D Design	
ARTS 1010 - Drawing I	
ARTS 2710 - Art History I	
CEUG 1010 - Human Growth and Development	
CEUG 2100 - Teaching and the Exceptional Child	
Physical Education .....	3 hours

**B. Major Field Courses** .....

ARTS 1011 - Drawing II	
ARTS 2720 - Art History II	
ARTS 2011 - Painting I	
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	
ARTS 3700 - Figure Sculpture	
ARTS 3750 - Contemporary Art and Criticism	
ARTS 4500 - Curriculum and Methods in Art Education	
ARTS 3500 - Art in Elementary Grades	
ARTS 3510 - Art for the Pre-Adolescent and Adolescent	
Any upper division craft class	
Any art elective	
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** .....

CEUG 4110** - Student Teaching P-12	
CEUG 4630* - Classroom Management P-12	

\*Must be admitted into teacher education to enroll in these courses  
\*\*Must also be admitted into student teaching to enroll in these courses

**Total Semester Hours** 129 hours

**D. Regents' Test, Orientation to Teaching or equivalent, Admission to Teacher Education including Praxis I, Education Teaching Portfolio, Admission to Student Teaching, Current Certification in CPR/First Aid, Senior Art Show, Senior Art Gallery Talk, Praxis II Exit Exam.**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN DRAMA/  
SPEECH**

**A. General Requirements**

Core Areas A, B, C, D, and E .....	42 hours
Area F .....	18 hours
One course from:	
THEA 1100, 1200, 2410	
THEA 2270 (3 semesters) - Theatre Lab	
COMM 2280 - Speech Communication	
Two course sequence in a foreign language beyond 1001	
One course from:	
ARTS 1111, 1270, 2710, 2720, MUSC 1300, 1400, ENGL 2100	
Physical Education .....	3 hours



<b>B. Major Field Courses</b> .....	<b>45 hours</b>
THEA 3000 - Introduction to Acting	
THEA 3040 - Stagecraft	
THEA 3440 - History of Theatre	
THEA 3460 - Play Directing	
THEA 4950 - Capstone-Senior Thesis/Project (3 sem hours)	
ENGL 3010 - Introduction to Literary Studies	
ENGL 5450 - Shakespeare I or 5460 - Shakespeare II	
Twelve semester hours from:	
THEA 3030 - Creative Dramatics and Children's Theatre	
THEA 3270 - Video Lab	
THEA 3420 - Acting II	
THEA 3450 - History of Theatre II	
THEA 3470 - Theatre Management	
THEA 4000 - Special Topics in Theatre	
THEA 4470 - Stage Managers and Designers Lab	
THEA 4500 - Drama Workshop	
THEA 4510 - Drama Workshop	
THEA 4900 - Independent Study	
THEA 4990 - Internship	
Nine semester hours from:	
ENGL 5450U - Shakespeare I	
ENGL 5460U - Shakespeare II	
ENGL 5560U - British Drama I	
ENGL 5570U - British Drama II	
ENGL 5650U - British, American, and Continental Drama: Ibsen to the Present	
ENGL 5660U - Ancient Epic and Drama	
Three semester hours from:	
FILM 3360, 3400, 3490, 3500, 3510, 5010U, 5020U	
<b>C. Related Field Courses</b> .....	<b>3 hours</b>
One additional course in the foreign language sequence (numbered 2002 or above)	
<b>D. Free Electives</b> .....	<b>12 hours</b>
<b>Total Semester Hours</b>	<b>123</b>
<b>E. Regents' Test and Exit Exam</b>	

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## BIOLOGY

### Faculty

Kenneth Relyea, Department Head  
 Judy Awong-Taylor  
 Ronald Beumer  
 Laurent Guillou  
 Linda Hyde  
 Suzanne Kempke

Ritin Khan  
 Brett Larson  
 Thomas Smith  
 Francis Thorne  
 Gail Wynn

### General Information

The Department of Biology offers a bachelor of science degree designed to provide students with exposure to traditional and field-oriented biology as well as more modern molecular aspects of biology. Students seeking the bachelor's degree in biology, or the bachelor of science degree in biology with teacher certification, will receive a firm grounding in biology and physical sciences upon which professional careers or additional study can be built. The program is appropriate for students seeking careers in wildlife biology, teaching, research, and for pre-

medical, pre-dental, and pre-veterinary students. Flexibility in choosing electives in the major is helpful to students attempting to meet medical, dental, and veterinary school requirements, and the biology major can be obtained while meeting those requirements. 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 and the bachelor's degree in biology with teacher certification; with the requirements for graduate, medical, dental, and veterinary 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.

**Pre-Forestry Program with the University of Georgia.** Students may complete two years of a pre-forestry curriculum at Armstrong Atlantic, then transfer to the University of Georgia. After two additional years of course work, students may receive a bachelor of science in forest resources.

**Pre-Forestry/Environmental Management Affiliation with Duke University.** In this program, students may complete three years of study at Armstrong Atlantic and then apply for admission to the Duke program. If accepted, students complete two additional years at Duke. Upon successfully completing the first year at Duke, students receive the bachelor's degree in biology from Armstrong; after successful completion of the second year, students will receive the master of science degree in either forestry or environmental management from Duke University.

**Biology Honors.** Students performing independent biological research and submitting acceptable oral and written reports to a departmental committee may be eligible to have "graduated with departmental honors" noted on their official academic records.

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

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 also take the biology subject test of the Graduate Record Exam (GRE) as an 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.

## Minors

**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, and E** ..... 42 hours  
 Biology majors are required to take MATH 1113 in core area A and MATH 2200 in core area D

<b>Area F</b> .....	<b>18 hours</b>
BIOL 1107 - Principles of Biology I	
BIOL 1108 - Survey of the Animal Kingdom	
BIOL 2500 - Modern Biology	
CHEM 1211/1211L, 1212/1212L - Principles of Chemistry I, II (unless taken to satisfy area D, in which case Biology 2010 and 2020 must be substituted)	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>46 hours</b>
BIOL 2010 - Microbiology (If used to satisfy area F, add a four credit hour elective from biology.)	
BIOL 2020 - Plantae and Fungi (If used to satisfy area F, add a four credit hour elective from biology.)	
BIOL 3000 - Cell Biology	
BIOL 3010 - Modern Biology Lab	
BIOL 3700 - Genetics	
BIOL 4200 - Vertebrate Physiology	
BIOL 4700 - Ecology	
BIOL 4800 - Seminar	
Total of 22 credit hours from categories 1-4, with at least one 3 credit hour course chosen from each of categories 1-3.	
<b>Category 1: Cell/Molecular/Physiology</b>	
BIOL 3510 - Bacteriology	
BIOL 3520 - Medical Microbiology	
BIOL 3530 - Immunology and Serology	
BIOL 4000 - Cellular Physiology	
BIOL 4090 - Molecular Genetics	
BIOL 4300 - Microbial Physiology	
BIOL 4310 - Applied Microbiology	
BIOL 4400 - Virology	
BIOL 4510 - Principles of Development	
<b>Category 2: Organismal/Ecology</b>	
BIOL 3300 - Entomology	
BIOL 3310 - Invertebrate Zoology	
BIOL 3750 - Natural History of Vertebrates	
BIOL 3770 - Developmental and Comparative Anatomy of Vertebrates	
BIOL 3920 - Parasitology	
BIOL 4010 - Evolution	
BIOL 4320 - Environmental Microbiology	
BIOL 4550 - Marine Organisms	
BIOL 4560 - Physiological Ecology	
<b>Category 3: Botany</b>	
BIOL 3150 - Horticulture	
BIOL 3200 - Flowering Plants	
BIOL 3230 - Anatomy of Seed Plants	
BIOL 4150 - Plant Physiology	
BIOL 4450 - Morphology of Vascular Plants	
<b>Category 4: Others</b>	
BIOL 3400 - Human Physiology	
BIOL 3410 - Nutrition	
BIOL 3580 - Histological Technique	
BIOL 3870 - Animal Histology	
BIOL 4210 - Comparative Physiology	
BIOL 4220 - Endocrinology	
BIOL 4910, -20 - Research I and II (only one research course may be counted as an elective)	
BIOL 4950, -60 - Internship I and II (only one internship may be counted as a major elective)	
BIOL 4970 - Special Topics (with permission of department head)	

- C. Related Field Courses** ..... 4-12 hours  
 CHEM 2101/2101L - Organic Chemistry I  
 Up to 12 credit hours from the following:  
 CHEM 2102/2102L - Organic Chemistry II  
 CHEM 3300 - Instrumental Analysis  
 CHEM 3801 - Biochemistry I  
 CHEM 3802 - Biochemistry II  
 MATH 1161 - Calculus I  
 PHYS 1111/1111L - Introductory Physics I  
 PHYS 1112/1112L - Introductory Physics II  
 PHYS 2211/2211L - Principles of Physics I  
 PHYS 2212/2212L - Principles of Physics II
- D. Electives** ..... sufficient to make 123 hours  
 Students are encouraged to take elective courses which will broaden their educational experience.

**Total Semester Hours** ..... 123 hours

**E. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY WITH TEACHER CERTIFICATION**

Students will follow the same program as noted for the biology major with the following exceptions:

The student takes only 4 credit hours from categories 1-4 under major electives.

The student is allowed only 3 credit hours of free electives.

The following education courses are required:

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

MGSE 3351 - General Curriculum and Methods

MGSE 4472 - Science Curriculum and Methods

MGSE 4630 - Classroom Management

MGSE 4750 - Student Teaching and Seminar - 9 hours

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY (Physical Therapy Emphasis)**

**A. General Requirements**

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

Physical therapy emphasis majors are required to take MATH 1113 in core area A and MATH 2200 in core area D

**Area F** ..... 18 hours

BIOL 1107, 1108 (unless taken in area D, in which case substitute

PHYS 1111/1111L, 1112/1112L)

BIOL 2500 - Modern Biology

CHEM 1211/1211L, 1212/1212L - Principles of Chemistry I, II (unless taken to

satisfy area D, in which case substitute PHYS 1111/1111L, 1112/1112L - Physics I, II)

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

**B. Major Field Courses** ..... 19 hours

BIOL 3000 - Cell Biology

BIOL 3510 - Bacteriology

BIOL 3770 - Developmental and Comparative Anatomy of Vertebrates

BIOL 4200 - Vertebrate Physiology

BIOL 4700 - Ecology

- C. Related Field Courses** ..... 17 hours  
 CHEM 2101/2101L - Organic Chemistry I  
 CSCI 1050 - Computer Concepts and Applications  
 HLPR 2000 - Research in the Health Professions  
 PHYS 1111/1111L - Introductory Physics I  
 PHYS 1112/1112L - Introductory Physics II
- D. Professional Physical Therapy Program (must be admitted to the professional phase of the physical therapy program)** ..... 32 hours  
 PHTH 5101U - Functional and Structural Aspects of Movement I  
 PHTH 5131U - Foundations of Physical Therapy Assessment and Treatment I  
 PHTH 5161U - Physical Therapy Practice Issues I  
 PHTH 5181U - Clinical Practicum I  
 PHTH 5202U - Functional and Structural Aspects of Movement II  
 PHTH 5232U - Foundations of Physical Therapy Assessment and Treatment II  
 PHTH 5262U - Physical Therapy Practice Issues II

If students do not choose to continue in the professional physical therapy program once admitted, they may count up to 12 semester hours of physical therapy courses as biology electives and continue with the biology major. Consult with the department head to ensure that essential degree requirements will be met.

**Total Semester Hours**

**123 hours**

**E. Regents' Test and Exit Exam**

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## CHEMISTRY AND PHYSICS

### Faculty

Ron Williams, Department Head	
Suzanne Carpenter, Coordinator of Chemistry	
Keith Martin, Coordinator of Engineering Studies	
Sabitra Brush	Will Lynch
Frank Butler	Catherine MacGowan
James Byrd	Richard Wallace
Henry Harris	Steven Weiner
Todd Hizer	Morris Whiten
Leon Jaynes	William Zipperer
Robert Kolodny	

### General Information

The Department of Chemistry and Physics offers bachelor of science degrees with majors in chemistry, chemistry with teacher certification, and applied physics. Minor concentrations are offered in chemistry, engineering studies, physical sciences, and applied physics. The department also sponsors the Engineering Studies Program. This program allows students to complete the first two years of a Georgia Tech engineering degree while attending Armstrong Atlantic State University.

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 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 chemistry or applied physics; the bachelor's degree with a major in chemistry with teacher certification; and for students who are pre-medicine, pre-pharmacy, pre-veterinary medicine, pre-dentistry, engineering studies, and engineering transfer program majors.

## Special Programs

**The AASU Engineering Transfer Program.** This program offers course work contained in the first two years of the standard engineering curriculum at most accredited engineering schools. After following the suggested course sequence at Armstrong Atlantic, 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 duration for all engineering degrees). The program of study has been constructed with advice from the Georgia Institute of Technology. Students are advised to contact engineering schools of their choice on questions of transfer.

**Dual Degree Program.** The department participates in the Dual Degree Program of Armstrong Atlantic State University under which students may earn simultaneously the bachelor's degree with a major in chemistry or applied physics from Armstrong Atlantic and a baccalaureate degree in a field of engineering from the Georgia Institute of Technology or one of several other participating schools.

**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.

## 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

<b>Chemistry</b> .....	<b>15 hours</b>
Six semester hours of lower division chemistry courses	
Nine semester hours of upper division chemistry courses	
<b>Applied Physics</b> .....	<b>15 hours</b>
Six semester hours of lower division physics courses	
Nine semester hours of upper division physics courses	
<b>Engineering Studies</b> .....	<b>15 hours</b>
Six semester hours of lower division engineering courses	
ENGR 3100, ENGR 3220	
PHYS 3120	
<b>Physical Sciences</b> .....	<b>15 hours</b>
Six semester hours in chemistry, physical science, or physics	
Nine semester hours selected from: ASTR 3100, GEOL 3100, METR 3100, OCEA 3100	

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

### A. General Requirements

<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D	
<b>Area F</b> .....	<b>18 hours</b>
CHEM 1211, 1211L/1212, 1212L - Principles of Chemistry I, II (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)	

Choose one sequence from:

PHYS 1111/1111L - Introductory Physics I and

PHYS 1112/1112L - Introductory Physics II or

PHYS 2211/2211L - Principles of Physics I and

PHYS 2212/2212L - Principles of Physics II

One hour excess for MATH 1161 from Core Area D

One hour lower division chemistry

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

**B. Major Field Courses** ..... 38 hours

CHEM 2101/2101L - Organic Chemistry I

CHEM 2102/2102L - Organic Chemistry II

CHEM 2300 - Chemical Analysis

CHEM 3200/3200L - Inorganic Chemistry

CHEM 3300 - Instrumental Analysis

CHEM 3401 - Physical Chemistry I

CHEM 3402 - Physical Chemistry II

CHEM 5501U - Chemistry Seminar I

CHEM 5502U - Chemistry Seminar II

Two courses from:

CHEM 3801 - Biochemistry I

CHEM 4100 - Advanced Organic Chemistry

CHEM 4200 - Advanced Inorganic Chemistry

CHEM 4300 - Advanced Instrumental Analysis

**C. Related Field Course** ..... 3 hours

ENGL 3720 - Business and Technical Communication

**D. Electives** ..... 19 hours

10 hours of upper-division courses from chemistry or other subjects within College of Arts and Science

9 hours of free electives

**Total Semester Hours**

**123 hours**

**E. Regents' Test and Exit Exam**

Proper course selection will allow the student to pursue any one of the following degree options.

**Pre-professional/Biochemistry Option:**

**B. Major Field Courses** ..... 41 hours

Add CHEM 3801, 3802 - Biochemistry I, II as requirements

**C. Related Field Courses** ..... 11 hours

Add BIOL 1107 - Principles of Biology I and

BIOL 1108 - Survey of the Animal Kingdom

**D. Electives** ..... 8 hours

Upper-division courses from chemistry or other subjects within the College of Arts and Sciences (7 semester hours)

Free electives (1 semester hour)

**Pre-Graduate Study Option:**

**C. Related Field Courses** ..... 14 hours

Add MATH 2072 - Calculus II and

MATH 2083 - Calculus III and

PHYS 3801/3801L - Optics and Modern Physics as requirements

<b>D. Electives</b> .....	<b>8 hours</b>
Same as pre-professional/biochemistry option	

### **PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY WITH TEACHER CERTIFICATION**

Students will follow the same program as noted for the chemistry major with the following additional requirements:

<b>B. Major Field Courses</b> .....	<b>37 hours</b>
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Add CHEM 3801 - Biochemistry I as a requirement

<b>C. Related Field Courses</b> .....	<b>27 hours</b>
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Add the following as requirements:

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

MGSE 3351 - Secondary School Curriculum and Methods, General

MGSE 4472 - Secondary School Curriculum and Methods, Science

MGSE 4630 - Classroom Management

MGSE 4750 - Student Teaching and Seminar (9 semester hours)

<b>Total Semester Hours</b>	<b>127 hours</b>
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### **PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED PHYSICS**

#### **A. General Requirements**

<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
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Applied physics majors are required to take MATH 1113 in core area A and

MATH 1161 in core area D

<b>Area F</b> .....	<b>18 hours</b>
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PHYS 2211/2211L, 2212/ 2212L - 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 lower division credit from computer science

<b>Physical Education</b> .....	<b>3 hours</b>
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<b>B. Major Field Courses</b> .....	<b>24 hours</b>
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PHYS 3100 - Electric Circuit Analysis

PHYS 3120 - Digital Electronics

PHYS 3210 - Intermediate Mechanics or PHYS 4170 - Advanced Mechanics

PHYS 3300 - Thermodynamics or PHYS 3400 - Chemical Thermodynamics

PHYS 3801/3801L - Optics and Modern Physics and Lab

PHYS 3802 - Intermediate Modern Physics

PHYS 4120 - Scientific Measurement with Digital Interfacing

Three semester hours from:

PHYS 3220 - Mechanics of Deformable Bodies

PHYS 3230 - Fluid Mechanics

PHYS 3500 - Diffraction and Crystallography

PHYS 4900 - Independent Study in Physics

PHYS 4950 - Special Topics in Physics

PHYS 4960 - Physics Internship

<b>C. Related Field Courses</b> .....	<b>29 hours</b>
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CHEM 1211/1211L - Principles of Chemistry I

CHEM 1212/1212L - Principles of Chemistry II

CSCI 1301- Introduction to Programming Principles (one hour applies to area F)

ENGL 3720 - Business and Technical Communication



ENGR 1170 - Engineering Graphics

ENGR 2200 - Statics

MATH 2160 - Linear Algebra

MATH 3411 - Differential Equations

Three semester hours from:

MATH 3422 - Differential Equations II

MATH 3900 - Special Topics in Applied Math

MATH 4610 - Numerical Analysis

**D. Electives** ..... **7 hours**

Upper-division courses (6 semester hours)

Free elective (1 semester hour)

**Total Semester Hours**

**123 hours**

**E. Regents' Test and Exit Exam**

## COMPUTER SCIENCE

### Faculty

Raymond Greenlaw, Department Head

Alex Bykat

Stephen Jodis

Charles Shipley

Laurie White

### Accreditation

The computer science program is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council for Higher Education Accreditation (CHEA).

### General Information

Offering the degree of bachelor of science with a major in computer science, the Department of Computer Science also provides several computer literacy courses to satisfy the general education needs of Armstrong Atlantic students. Flexibility in the design of the computer science major meets the needs of students with many different interests, and a minor can be planned to complement other majors. Committed to excellence in both teaching and research, the department provides students with an education emphasizing the fundamentals. Our program prepares students for employment in a broad range of computer-related jobs in a rapidly changing field. Students are also prepared to pursue graduate study in computer science with a broad background in basic mathematics and science, and an introduction to computer hardware. Most courses require significant use of computers, and upper division classes typically contain fewer than twenty students to allow for individual instruction.

### Special Programs

Students are able to compete for cooperative education positions and internships at major Savannah employers such as Gulfstream and Savannah Foods. Such positions provide students invaluable opportunities to acquire practical experience to complement classroom experience. Students receive credit for participation in such programs.

### Special Requirements

Computer science includes the study of all aspects of the design, implementation, and application of computers. While dealing with general problem solving, emphasis is also given to the development of correct and efficient solutions and the expansion of capability to solve ever larger and more complex problems. Success in rigorous computer science degree programs requires commitment and a strong aptitude for mathematics.

## 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 mathematics and computer science courses required in the program of study. To fulfill the prerequisites for any computer science course students must obtain a grade of C or better in each prerequisite course.

## Minors

<b>Computer science</b> .....	<b>15 hours</b>
CSCI 1301	
CSCI 1302	
Eleven semester hours from:	
CSCI 2390	
Any 3000-4000 level computer science courses, excluding CSCI 3990, CSCI 5010U, and internships	

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

### A. General Requirements

<b>Core Areas A, B, C, D, E</b> .....	<b>42 hours</b>
Computer science majors are required to take MATH 1113 in core area A and MATH 1161 in core area D.	

<b>Area F</b> .....	<b>18 hours</b>
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One semester hour excess for MATH 1161 from core area D

- CSCI 1301 - Introduction to Programming Principles
- CSCI 1302 - Advanced Programming Principles
- CSCI 2070 - Ethical Considerations in Computer Science
- CSCI 2620 - Discrete Structures for Computer Science
- CSCI 2390 - Programming in C++
- MATH 2072 - Calculus II

<b>Physical Education</b> .....	<b>3 hours</b>
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<b>B. Major Field Courses</b> .....	<b>33 hours</b>
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- CSCI 3201 - Computer Organization and Architecture I
- CSCI 3202 - Computer Organization and Architecture II
- CSCI 3321 - Software Engineering Concepts
- CSCI 3330 - Comparative Languages
- CSCI 3341 - Operating Systems I
- CSCI 3410 - Algorithms and Data Structure
- CSCI 3450 - Introduction to File Structure

Two courses in one of the following tracks:

#### Application System Development

- CSCI 4322 - Software Engineering Concepts II
- CSCI 4720 - Database Systems

#### Computer Systems

- CSCI 4220 - Data Communications and Computer Networks
- CSCI 4342 - Operating Systems Concepts II

#### Knowledge-Based Systems

- CSCI 4820 - Introduction to Artificial Intelligence
- CSCI 4880 - Introduction to Knowledge-Based Systems

#### Scientific Computing

- CSCI 4210 - Introduction to Parallel Computing
- CSCI 4610 - Numerical Analysis

#### Large Software System Development

- CSCI 4322 - Software Engineering Concepts
- CSCI 4350 - Compiler Theory
- CSCI 4390 - Senior Project
- CSCI 4830 - Computer Graphics

Project Requirement: All computer science majors must take at least one course from the Large Software System Development track.

Six additional semester hours from 4000-level computer science courses.

**C. Related Field Courses ..... 23 hours**

MATH 3211 - Probability and Mathematical Statistics I

One of the following:

MATH 2160 - Linear Algebra

MATH 3222 - Probability and Mathematical Statistics II

MATH 3460 - Mathematical Modelling and Optimization

MATH 4610 - Numerical Analysis

One of the following CSAB approved science sequences:

BIOL 1107 and 1108 - Biology I, II

CHEM 1211/1211L and 1212/1212L - Principles of Chemistry I, II

PHYS 2211/2211L and 2212/2212L - Principles of Physics I, II

ENGL 3720 - Business and Technical Communication

At least six additional semester hours from science and engineering major courses. These courses must be computer science-approved science sequences; or have computer science approved sequences as prerequisites; or be engineering courses having PHYS 2211 as a prerequisite.

**D. Free Electives ..... 4 hours**

**Total Semester Hours ..... 123 hours**

**E. Regents' Test and Exit Exam**

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## CRIMINAL JUSTICE, SOCIAL AND POLITICAL SCIENCE

### Faculty

Michael Donahue, Department Head

Katherine Bennett, Graduate Coordinator

George Brown

William Daugherty

Don Josi

John Kearnes

William Megathlin

Dennis Murphy

Steve Rhee

Edward Rinalducci

Daniel Skidmore-Hess

### General Information

The Department of Criminal Justice, Social and Political Science offers three associate degree programs in criminal justice, bachelor and master of science degrees in criminal justice, and a bachelor of arts in political science, with the opportunity for either teacher certification or a concentration in public administration. Students considering graduate school should take the foreign language option and continue their linguistic study beyond the first intermediate course. Students may pursue associate of applied science degrees in criminal justice with concentrations in law enforcement, law enforcement with P.O.S.T. certification, or corrections.

The department endorses the ideal of liberal education and views it as an enlargement of education in related 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

Criminal justice programs are also offered in Liberty County; baccalaureate programs in both criminal justice and political science are offered at the Brunswick Center at Georgia Coastal Community College. The bachelor of science in criminal justice (B.S.C.J.) is available on campus, at the Liberty Center, and at the Brunswick Center. In addition, the master of science in criminal justice (M.S.C.J.) is offered on campus and at the Liberty Center.

## Progress Requirements

All department majors are required to take an exit examination (the Area Concentration Achievement Test for their respective field) prior to graduation. Majors interested in the associate degree with peace officer certification must also contact the Regional Criminal Justice Training Center located on campus. All minors also require a C or better in each course.

## Minors

<b>Criminal Justice</b> .....	<b>18 hours</b>
CRJU 1010, CRJU 3210, CRJU 3300, CRJU 3400, CRJU 5500U, and any upper-division course in CRJU other than internship	
<b>Legal Studies</b> .....	<b>18 hours</b>
POLS 3180, CRJU/POLS 5500U, and any four of the following: POLS 3170, POLS 4150, PUBL/POLS 4180, CRJU/POLS 5520U, CRJU 4500, or CRJU 4510	
<b>Political Science</b> .....	<b>15 hours</b>
Fifteen hours of 3000+ level course work, with at least one course from each of the four areas of concentration: <b>American Political Institutions:</b> POLS 3170, POLS 3180, POLS 4100, POLS 4110, POLS 4120, POLS 4150 <b>International Affairs:</b> POLS 3210, POLS 3260, POLS 4200, POLS 4280, POLS 4290, POLS 5130U <b>Political Theory:</b> POLS 3300, POLS 3310, POLS 3320, POLS 3330, POLS 4300 <b>Comparative Government:</b> POLS 3420, POLS 3450, POLS 3460, POLS 3480, POLS 3490, POLS 4400, POLS 4520	
<b>Public Administration</b> .....	<b>15 hours</b>
PUBL 2250, PUBL 4010, PUBL 4030, PUBL 4050, and CRJU 3100	

## PROGRAM FOR THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE (Concentration in Law Enforcement)

<b>A. General Requirements: Core Areas</b> .....	<b>31 hours</b>
<b>Physical Education</b> .....	<b>2 hours</b>
<b>B. Major Field Courses</b> .....	<b>29 hours</b>
CRJU 1010 - Introduction to Criminal Justice	
CRJU 1030 - Interpersonal Communication Skills	
CRJU 1200 - Introduction to Law Enforcement	
CRJU 2500 - Criminal Evidence and Procedure	
CRJU 2510 - Introduction to Criminal Law	
CRJU 3210 - Law Enforcement: Structure and Process	
CRJU 5300U - Juvenile Delinquency	
CRJU Electives	

**Total Semester Hours** **62 hours**

**C. Regents' Test and Exit Examination: Area Concentration Achievement Test in Criminal Justice for two-year programs**

**PROGRAM FOR THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE  
(Concentration in Law Enforcement - P.O.S.T. Option)**

<b>A. General Requirements: Core Areas</b> .....	<b>31 hours</b>
Physical Education .....	2 hours
<b>B. Major Field Courses</b> .....	<b>21 hours</b>
CRJU 1010 - Introduction to Criminal Justice	
CRJU 1030 - Interpersonal Communication Skills	
CRJU 1200 - Introduction to Law Enforcement	
CRJU 2200 - Criminal Investigation	
CRJU 2500 - Criminal Evidence and Procedure	
CRJU 2510 - Introduction to Criminal Law	
CRJU 3210 - Law Enforcement: Structure and Process	
<b>C. Additional Requirements</b> .....	<b>14 hours</b>
CRJU 2700 - Directed Readings in Criminal Justice	
CRJU 5130U - Political Terrorism	
CRJU 5300U - Juvenile Delinquency	
ENGL 3720 - Business and Technical Communication	
PEEC 2000 - Community First Aid and CPR	
<b>Total Semester Hours</b>	<b>68 hours</b>

**D. Regents' Test and Exit Examination: Area Concentration Achievement Test in  
Criminal Justice for two-year programs**

**PROGRAM FOR THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE  
(Concentration in Corrections)**

<b>A. General Requirements: Core Areas</b> .....	<b>31 hours</b>
Physical Education .....	2 hours
<b>B. Major Field Courses</b> .....	<b>29 hours</b>
CRJU 1010 - Introduction to Criminal Justice	
CRJU 1030 - Interpersonal Communication Skills	
CRJU 2500 - Criminal Evidence and Procedure	
CRJU 3400 - Corrections	
CRJU 3410 - Community-Based Treatment	
CRJU 5300U - Juvenile Delinquency	
CRJU 5500U - Law and Legal Process	
CRJU Electives	
<b>Total Semester Hours</b>	<b>62 hours</b>

**Regents' Exam and Exit Examination: Area Concentration Achievement Test in  
Criminal Justice for two-year programs**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
CRIMINAL JUSTICE**

<b>A. General Requirements</b>	
Core Areas A, B, C, D, and E .....	<b>42 hours</b>
Area F .....	<b>18 hours</b>
CRJU 1010 - Introduction to Criminal Justice	
CRJU 1030 - Interpersonal Communication Skills	
CRJU 2100 - Criminology	
CRJU 2500 - Criminal Evidence and Procedure	
CRJU 2510 - Introduction to Criminal Law	
MATH 2200 - Elementary Statistics	

Physical Education .....	3 hours
<b>B. Major Field Courses</b> .....	<b>27 hours</b>
CRJU 3100 - Research Methods	
CRJU 3210 - Law Enforcement: Structure and Process	
CRJU 3400 - Corrections	
CRJU 4800 - Internship (twelve semester hours)	
CRJU 5300U - Juvenile Delinquency	
CRJU 5500U - Law and Legal Process	
Capstone course: CRJU 4900 - Directed Research in Criminal Justice or CRJU 4910 - Seminar in Criminal Justice	
<b>C. Related Field Courses</b> .....	<b>6 hours</b>
PUBL/POLS 2601 - Foundations of Public Administration	
SOCI 1101 - Introductory Sociology or PSYC 1101 - General Psychology	
<b>D. Approved electives</b> .....	<b>12 hours</b>
9 hours of approved electives at the 3000+ level	
<b>E. Free Electives</b> .....	<b>15 hours</b>
<b>Total Semester Hours</b>	<b>123 hours</b>
<b>F. Regents' Test and Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs</b>	

## PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE

### A. General Requirements

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

Area F ..... 18 hours

POLS 2100 - Introduction to Political Science

PHIL 2201 - Introduction to Philosophy or SOCI 1101 - Introductory Sociology

One of the following:

POLS 2201 - State and Local Government

POLS 2290 - Foundations of International Relations

PUBL/POLS 2601 - Foundations of Public Administration

MATH 2200 - Elementary Statistics

One course selected from:

ANTH 1102 - Introduction to Anthropology

ECON 2106 - Microeconomics

GEOG 2120 - Cultural Geography

HIST 1112 - Civilization II

Six hours of a foreign language sequence numbered 1002 or above or six hours of a computer language

Physical Education ..... 3 hours

**B. Major Field Courses** ..... **37 hours**

POLS/PUBL 2150 - Careers in Political Science and Public Administration

Six courses (18 semester hours) from the following with at least one course from each area:

#### American Political Institutions

POLS 3170 - Constitutional Law and the Federal System

POLS 3180 - Constitutional Civil Liberties

PUBL/POLS 3990 - Special Topics in Public Administration/Political Science

PUBL/POLS 4010 - Politics of Budgetary Process

POLS 4100 - Independent Study in American Government

PUBL/POLS 4030 - Public Policy Development

PUBL/POLS 4050 - Principles of Public Management

POLS 4100 - Independent Study in American Government

POLS 4120 - Congress and Political Parties

- POLS 4150 - American Supreme Court
- POLS 4180 - Administrative Law
- POLS 5120U - Congress and Political Parties
- CRJU/POLS 5500U - Law and Legal Process
- CRJU 3100 - Research Methods

**Political Theory**

- POLS 3300 - Political Philosophy: Ancient and Medieval
- POLS 3310 - Modern Political Philosophy
- POLS 3320 - American Political Thought
- POLS 3330 - Contemporary Political Thought

**International Relations**

- POLS 3210 - International Relations: East Asia
- POLS 3260 - International Law
- POLS 4200 - Independent Study in International Relations
- POLS 4290 - American Foreign Policy
- POLS 5280U - Seminar in Global Politics
- CRJU/POLS 5130U - Political Terrorism

**Comparative Politics**

- POLS 3420 - Politics of Underdevelopment: Africa and Latin America
- POLS 3460 - Government of East Asia
- POLS 3480 - Governments of Western Europe
- POLS 3490 - Political Transformation of the Former Soviet Union
- POLS 4400 - Independent Study in Comparative Government
- CRJU/POLS 5520U - Comparative Judicial Systems

15 hours of political science electives

Capstone course: POLS 4950 - Seminar in Political Science

**C. Electives** ..... 23 hours  
Including a minimum of 15 hours of upper division courses

**Total Semester Hours** ..... 123 hours

**E. Regents' Exam and Exit Exam: Area Concentration Achievement Test in Political Science**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE (Public Administration)**

**A. General Requirements**

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

Area F ..... 18 hours

POLS 2100 - Introduction to Political Science

MATH 2200 - Elementary Statistics

Foreign language – six hours above 1001 or six hours of computer language

One of the following:

POLS 2201 - State and Local Government

PUBL/POLS 2601 - Foundations of Public Administration

One course selected from:

ANTH 1102 - Introduction to Anthropology

ECON 2106 - Microeconomics

GEOG 2120 - Cultural Geography

HIST 1112 - Civilization II

PHIL 2201 - Introduction to Philosophy

SOCI 1101 - Introductory Sociology

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

<b>B. Major Field Courses</b> .....	<b>31 hours</b>
POLS/PUBL 2150 - Careers in Political Science and Public Administration POLS/PUBL 4010 - Politics in Budgetary Process POLS/PUBL 4030 - Public Policy Development POLS/PUBL 4050 - Principles of Public Management POLS/PUBL 4180 - Administrative Law POLS 4950 - Seminar in Political Science Fifteen (15) elective upper division hours in POLS/PUBL with at least three (3) credits in each of the following four areas: <b>American Political Institutions</b> POLS 3170 - Constitutional Law and the Federal System POLS 3180 - Constitutional Civil Liberties PUBL/POLS 3990 - Special Topics in Public Administration/Political Science PUBL/POLS 4010 - Politics of Budgetary Process POLS 4100 - Independent Study in American Government PUBL/POLS 4030 - Public Policy Development PUBL/POLS 4050 - Principles of Public Management POLS 4100 - Independent Study in American Government POLS 4120 - Congress and Political Parties POLS 4150 - American Supreme Court POLS 4180 - Administrative Law POLS 5120U - Congress and Political Parties CRJU/POLS 5500U - Law and Legal Process CRJU 3100 - Research Methods <b>Political Theory</b> POLS 3300 - Political Philosophy: Ancient and Medieval POLS 3310 - Modern Political Philosophy POLS 3320 - American Political Thought POLS 3330 - Contemporary Political Thought <b>International Relations</b> POLS 3210 - International Relations: East Asia POLS 3260 - International Law POLS 4200 - Independent Study in International Relations POLS 4290 - American Foreign Policy POLS 5280U - Seminar in Global Politics CRJU/POLS 5130U - Political Terrorism <b>Comparative Politics</b> POLS 3420 - Politics of Underdevelopment: Africa and Latin America POLS 3460 - Government of East Asia POLS 3480 - Governments of Western Europe POLS 3490 - Political Transformation of the Former Soviet Union POLS 4400 - Independent Study in Comparative Government CRJU/POLS 5520U - Comparative Judicial Systems	
<b>C. Related Field Course</b> .....	<b>3 hours</b>
CRJU 3100 - Research Methods	
<b>D. Electives</b> .....	<b>26 hours</b>
Includes a minimum of 15 hours of upper division courses	
<b>Total Semester Hours</b>	<b>123 hours</b>
<b>E. Regents' Test and Exit Exam: Area of Concentration Achievement Test in Political Science</b>	



**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE WITH TEACHER CERTIFICATION**

**A. General Requirements**

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

**Area F** ..... 18 hours

POLS 2100 - Introduction to Political Science

MATH 2200 - Elementary Statistics

Foreign language – six hours 1002 or above, or six hours of computer language

One of the following:

POLS 2201 - State and Local Government

POLS 2290 - Foundations of International Relations

One course selected from:

ANTH 1102 - Introduction to Anthropology

ECON 2106 - Microeconomics

GEOG 2120 - Cultural Geography

HIST 1112 - Civilization II

PHIL 2201 - Introduction to Philosophy

SOCI 1101 - Introductory Sociology

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

**B. Major Field Courses** ..... 21 hours

Six courses from the four areas below with at least **one** course from each area:

**American Political Institutions**

POLS 3170 - Constitutional Law and the Federal System

POLS 3180 - Constitutional Civil Liberties

PUBL/POLS 4010 - Politics of Budgetary Process

PUBL/POLS 4030 - Public Policy Development

PUBL/POLS 4050 - Principles of Public Management

POLS 4100 - Independent Study in American Government

POLS 4110 - American Presidency

POLS 4120 - Congress and Political Parties

POLS 4150 - American Supreme Court

POLS 4180 - Administrative Law

POLS 5120U - Congress and Political Parties

**Political Theory**

POLS 3300 - Political Philosophy: Ancient and Medieval

POLS 3310 - Modern Political Philosophy

POLS 3320 - American Political Thought

POLS 3330 - Contemporary Political Thought

**International Relations**

POLS 3210 - International Relations: East Asia

POLS 3260 - International Law

POLS 4200 - Independent Study in International Relations

POLS 4280 - Seminar in Global Politics

POLS 4290 - American Foreign Policy

POLS 5280U - Seminar in Global Politics

CRJU/POLS 5130U - Political Terrorism

**Comparative Politics**

POLS 3420 - Politics of Underdevelopment: Africa and Latin America

POLS 3460 - Government of East Asia

POLS 3480 - Governments of Western Europe

POLS 3490 - Political Transformation of the Former Soviet Union

POLS 4400 - Independent Study in Comparative Government

POLS 4520 - Comparative Judicial Systems

Capstone course: POLS 4950 - Seminar in Political Science

<b>C. Related Field Courses</b> .....	<b>33 hours</b>
CEUG 1010 - Human Growth and Development	
CEUG 2100 - Teaching and the Exceptional Child	
MGSE 3351 - Secondary School Curriculum and Methods, General	
MGSE 4492 - Secondary School Curriculum and Methods, Social Science	
MGSE 4630 - Classroom Management	
MGSE 4750 - Student Teaching and Seminar (9 semester hours)	
Two upper division courses from an approved social science related field	
One course from: (or an approved elective if taken in areas B or E)	
HIST 1111 - Civilization I	
HIST 1112/1112H - Civilization II/Honors	
HIST 2111 - History of America to 1877	
HIST 2112 - History of America since 1865	
<b>D. Electives</b> .....	<b>6 hours</b>
<b>Total Semester Hours</b>	<b>123 hours</b>
<b>E. Regents' Test and Exit Exam</b>	

## ECONOMICS

### Faculty

Chris Paul, Department Head  
 Richard McGrath  
 Yassaman Saadatmand  
 Michael Toma

### General Information

The Department of Economics offers the degree of bachelor of arts with a major in economics, as well as a minor in economics. The program is consistent with the liberal arts tradition, requiring a foundation in economic theory along with applied courses from various areas. These areas include international economics, financial markets, public policy issues, regional and international development, and quantitative applications. Graduates may find positions in business, government, and consulting, ranging from management and marketing to research and analysis. Opportunities exist for internship and research experience.

### Special Programs

An honors program in economics is available.

### Progress Requirements

Students must earn a grade of C or better in every course required for the major or minor.

### Minors

<b>Economics</b> .....	<b>15 hours</b>
ECON 2105 or 2106	
Twelve credit hours selected from: ECON 3100, 3200, 3300, 3400, 3500, 3630, 4210, 4310, 4400, 4410, 4450, 4500, and 4010-4030.	

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ECONOMICS****A. General Requirements**

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

**Area F** ..... 18 hours

ECON 2105 - Principles of Macroeconomics

ECON 2106 - Principles of Microeconomics

MATH 2220 - Elementary Statistics

MATH 1950 - Applied Math or MATH 1161 - Calculus I

Two-course sequence of foreign language above 1001

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

**B. Major Field Courses** ..... 36 hours

ECON 3050 - Intermediate Macroeconomics

ECON 3060 - Intermediate Microeconomics

ECON 2030 - Accounting I

ECON 2040 - Accounting II

Eight courses from at least three of the following categories:

**International**

ECON 3100 - Multinational Economic Enterprises

ECON 3200 - International Trade

ECON 4310 - International Financial Institutions

ECON 4400 - Seminar in Third World Economic Development

ECON 4450 - Comparative Economic Systems

**Quantitative**

ECON 3600 - Mathematical Economics

ECON 3700 - Econometrics

**Applied**

ECON 3300 - Money and Banking

ECON 3400 - Economics of Labor

ECON 3500 - Managerial Economics

**Public Policy and Economic History**

ECON 3630 - Economic History in the US

ECON 4210 - International Law of Expropriation and Compensation

ECON 4410 - Regional Economics

ECON 4500 - Public Finance

**Internships and Specialized Courses**

ECON 4520, -30, -40 - Internship (with permission of department head)

ECON 4010, -20, -30 - Special Topics (with permission of department head)

**C. Related Field Courses** ..... 9 hours

CSCI 1050 - Introduction to Computer Concepts

Two upper division courses (3000 or 4000 level) from the following:

psychology, anthropology, political science, geography,

philosophy, mathematics, or sociology

**D. Electives** ..... 15 hours

One upper division 3000+ course and four other electives.

**Total Semester Hours**

**123 hours**

**E. Regents' Test and Exit Exam**

## HISTORY

### Faculty

Nancy White, Department Head

Christopher Hendricks, Graduate Coordinator

Olavi Arens

Barbara Fertig

Mark Finlay

David Gleeson

Michael Hall

June Hopkins

Thomas Howard

Michael Price

George Pruden

Howard Robinson

Janet Stone

James Todesca

Anne Yentsch

### General Information

The Department of History offers the degree of bachelor of arts with a major in history, or a major in history with broad field teacher certification. The latter prepares graduates to teach at the secondary level in both public and private schools. The former prepares graduates for entry level employment in such areas as government, public or community service, and business, as well as for pursuit of graduate study in history and other professional programs (law or business). The curriculum in public history prepares graduates for masters programs as well as entry level employment in the non-profit sector and various cultural resource enterprises. Minor concentrations in history offer students the opportunity to strengthen their research and writing skills and to better understand the development and functioning of modern society.

### Special Programs

**Honors.** See the course description for HIST 4990 - Senior Thesis in History for detailed information. Also see University Honors Program.

**Brunswick Center.** The bachelor's in history is offered in the evenings at the Brunswick Center (Georgia Coastal Community College) - except for HIST 4500, HIST 4960 and 4970, and the seminar courses. These requirements must be completed on campus. The bachelor of general studies with a history concentration is also available.

### Special Requirements

Students who major in history are required to complete six semester hours of a foreign language sequence, or demonstrate proficiency in a foreign language offered by the university through the first intermediate course. Students should begin their language sequence as soon as possible and certainly not later than their junior year. Students should plan their programs of study carefully in consultation with a faculty advisor. 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.

In addition to meeting minimum requirements for either degree, students contemplating graduate work in history are strongly advised to continue foreign language study beyond the 2001 level. Students with an additional double major in which computer science is a language choice may substitute computer science for a foreign language in history.

Both degree programs require HIST 4500 (Methods), HIST 4900, 4910, 4920, or 4930 (Seminar), and HIST 4960 or 4970 (Historiography). In choosing the remainder of their advanced courses students may choose to concentrate in one particular area of history (e.g. European, American, or non-western), providing they complete at least six hours outside that area.

### Progress Requirements

Completion of the major requires students to complete the major field courses with a grade of C or better. All minors also require a C or better in each course.

## Minors

<b>History</b> .....	<b>15 hours</b>
Fifteen hours of 3000, 4000, or 5000U level history courses	
<b>Historical Archaeology</b> .....	<b>15 hours</b>
HIST/PBHS/ANTH 3820, 5720U, 5740U	
Six hours from the following:	
HIST 3760, 3710, 4500, 5510U, 5560U, 5570U	
<b>International Studies</b> .....	<b>15 hours</b>
Consult history and/or government departments for program of study.	
<b>Public History</b> .....	<b>15 hours</b>
HIST 4500	
PBHS 4980	
Nine hours from the following:	
PBHS 3800, 3820, 5810U, 5830U, 5850U, 5750U	
<b>Russian Studies</b> .....	<b>15 hours</b>
Consult the departments of history and/or criminal justice, social and political science for program of study.	

## PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN HISTORY

### A. General Requirements

<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
<b>Area F</b> .....	<b>18 hours</b>
HIST 1111 - Civilization I or HIST 1112/H - Civilization II/Honors (If taken to satisfy core area B or E, substitute an approved global perspectives course.)	
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	
One course selected from:	
MATH 1113 - Pre-calculus	
MATH 1161 - Calculus	
MATH 2200 - Elementary Statistics	
MATH 2900 - Spirit and Structure of Math	
CSCI 1050 - Introduction to Computer Concepts and Applications	
(If a math or computer science course is taken to satisfy area D, a humanities or social sciences course may be substituted.)	

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

### B. Major Field Courses

<b>HIST 4500 - Historical Methods</b> .....	<b>27 hours</b>
One course from:	
HIST 4900 - Non-Western History Seminar	
HIST 4910 - Russian History Seminar	
HIST 4920 - European History Seminar	
HIST 4930 - American History Seminar	
One course from:	
HIST 4960 - American Historiography	
HIST 4970 - European Historiography	
Six other history courses at the 3000 level or above	

### C. Related Field Courses

.....	<b>18 hours</b>
One public history course (3000 or above)	
Six semester hours chosen from the social sciences and/or the humanities excluding history (upper or lower division).	

At least nine semester hours at the 3000 level or above chosen from the social sciences, and/or the humanities, and/or public history.

**D. Electives** ..... 15 hours

**Total Semester Hours** ..... 123 hours

**E. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN HISTORY WITH TEACHER CERTIFICATION**

**A. General Requirements**

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

**Area F** ..... 18 hours

HIST 1111 - Civilization I or HIST 1112/H - Civilization II/Honors (If taken to satisfy core area B or E, substitute an approved global perspectives course.)

HIST 2111 - History of America to 1877 or HIST 2112 - History of America since 1865 (If taken to satisfy core area E, substitute a social science course at the 1000 or 2000 level.)

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language I

Math 2200 - Elementary Statistics (If taken to satisfy core area D, substitute an approved social science course).

CEUG 1010 - Human Growth and Development

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

**B. Major Field Courses** ..... 27 hours

One course selected from: (as determined by whether HIST 2111 or HIST 2112 is taken above)

HIST 3710 - Colonial and Revolutionary America

HIST 3770 - U. S. History 1917-1960

HIST 4500 - Historical Methods

One course selected from:

HIST 4900 - Non-Western History Seminar

HIST 4910 - Russian History Seminar

HIST 4920 - European History Seminar

HIST 4930 - American History Seminar

One course from:

HIST 4960 - American Historiography

HIST 4970 - European Historiography

One approved American history course

Two approved European history courses

Two approved non-western history courses

**C. Related Field Courses** ..... 33 hours

One course selected from:

ECON 3100 - Multinational Economics Enterprises

ECON 3200 - International Trade

ECON 4310 - International Financial Institutions

ECON 4450 - Comparative Economics Systems

One course selected from:

GEOG 1111 - Physical Geography

GEOG 2120 - Cultural Geography

CEUG 2100 - Teaching and the Exceptional Child

MGSE 3351 - Secondary School Curriculum and Methods, General

MGSE 4492 - Secondary School Curriculum and Methods, Social Science

MGSE 4630 - Classroom Management

MGSE 4750 - Student Teaching and Seminar (9 semester hours)

Two approved social science courses

**Total Semester Hours** ..... 123 hours

**E. Regents' Test, General Education Exit Exam, and Major Field Exit Exam**

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## LANGUAGES, LITERATURE, AND PHILOSOPHY

### Faculty

Robert Parham, Department Head

Carol Andrews

Christopher Baker

Ellen Blossman

Rick Canning

Frank Clancy

Thomas Cooksey

Isabel Cottrell

William Deaver

Gary Holcomb

Karen Hollinger

Carol Jamison

William Martin

David Noble

Erik Nordenhaug

Richard Nordquist

Helon Raines

Deborah Reese

Leslie Sconduto

James Smith

Dabney Townsend

John Welsh

Teresa Winterhalter

### General Information

The Department of Languages, Literature, and Philosophy offers the degree of bachelor of arts with majors in English, English with teacher certification, English (Communications), Spanish, and Spanish with teacher certification. Minors are available in English, philosophy, linguistics, film and foreign languages. In addition, the department provides the composition, literature, and philosophy 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 enroll in the appropriate course in the core sequence and do so every semester until they complete the sequence and pass the Regents' Test. 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 (with Essay) examination with a score of 49 (grade equivalent of a B) as well as pass the essay portion of the test. Students who wish a credit exemption for ENGL 1102 must take the CLEP Analysis and Interpretation of Literature and Essay examination, make a score of at least 55 (grade equivalent of B), and pass the essay portion of the test. Students who score a '3' or higher on the AP exam (English: Language and Composition or Literature and Composition), or who win an NCTE Writing Award, will have their ENGL 1101 requirement waived and will automatically gain entrance into ENGL 1102H. These students are strongly urged to complete their remaining graduation hours by subsequently enrolling in ENGL 2100H and an upper-level writing class such as ENGL 3720 (Technical and Business Communication) or ENGL 4700 (Advanced Composition).

**English Composition Transfer Credit.** Transfer students from outside the University System of Georgia who have not yet completed the required English composition (ENGL 1101, 1102) should arrange a placement interview through the departmental office. The interviewer will evaluate student transcripts for English credits, administer the English placement test (if necessary), provide information on the composition sequence and the Georgia Regents' Test, and determine placement in the appropriate composition course.

**Foreign Languages.** College preparatory curriculum (CPC) deficiency in foreign languages may be fulfilled by successfully completing any of the 1000-level courses in Spanish, French, Latin, or German with a final course grade of C or better. Students who take their foreign language courses on another campus while enrolled at Armstrong Atlantic must pass an appropriate national standardized test with a score not lower than the 60th percentile on each part to receive credit for

foreign language 1002 and/or 2001. Students may receive credit by examination for French, German, and Spanish provided they meet requirements listed under Credit by Examination in the section on Admissions. For further information students should contact the department head or the director of the counseling and placement office.

## 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.

## Minors

<b>English</b> .....	<b>15-18 hours</b>
Must include 9 hours of English electives numbered 3000 or above (maximum of 3 hours of 4990)	
<b>Film</b> .....	<b>15-18 hours</b>
Must include THEA/FILM 3400, THEA/FILM 3510, THEA/FILM 3500, THEA/FILM 5010U	
<b>Foreign Languages</b> .....	<b>15-18 hours</b>
Must include 9 hours of language electives numbered 3000 or above	
<b>Linguistics</b> .....	<b>15-18 hours</b>
Must include ENGL 3010, LING 4700, LING 5000U, LING 5800U, LING 5820U	
<b>Philosophy</b> .....	<b>15-18 hours</b>
Must include 9 hours of philosophy electives numbered 3000 or above	

## PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH

### A. General Requirements

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

**Area F** ..... **18 hours**

ENGL 2100 - Literature and Humanities (unless taken in area C)

One course selected from:

ENGL 2111 - World Literature I

ENGL 2112 - World Literature II

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

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language

COMM 2280 - Speech Communication

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

**B. Major Field Courses** ..... **39 hours**

ENGL 3010 - Literary Studies

One course selected from:

ENGL 2121 - British Literature I

ENGL 2122 - British Literature II

ENGL 2111 - World Literature I

ENGL 2112 - World Literature II

ENGL 2131 - American Literature I

ENGL 2132 - American Literature II



Two courses selected from:

- ENGL 5440U - Early English Literature
- ENGL 5450U OR 5460U - Shakespeare I or II
- ENGL 5470U - British Poetry and Prose: 1603-1689
- ENGL 5500U - 18th Century British Poetry and Prose
- ENGL 5520U - 19th Century British Romantic Poetry and Prose I

Two courses selected from:

- ENGL 5200U - Postcolonial Literature
- ENGL 5380U - Southern Literature
- ENGL 5350U - African American Literature
- ENGL 5530U - 19th Century British Victorian Poetry and Prose II
- ENGL 5540U - Modernism
- ENGL 5550U - Contemporary Literature

Two courses selected from:

- ENGL 5360U - American Novel
- ENGL 5370U - American Poetry
- ENGL 5400U - British Poetry
- ENGL 5410U - British Novel
- ENGL 5560U - British Drama: Beginning to 1630
- ENGL 5570U - British Drama: 1630-1800
- ENGL 5650U - British, American, and Continental Drama
- ENGL 5660U - Ancient Epic and Drama
- FILM/THEA 3510 - Film and Literature

Two courses selected from:

- ENGL 3720 - Business and Technical Communications
- ENGL 4700 - Advanced Composition
- ENGL 4740 - Creative Writing (Poetry)
- ENGL 4750 - Creative Writing (Fiction)
- ENGL 5760U - Literary Nonfiction
- ENGL 5800U - Advanced Grammar
- ENGL 5820U - History of the English Language

One course selected from:

- ENGL 5730U - Rhetoric
- ENGL 5830U - History of Criticism
- ENGL 5840U - Literary Theory
- FILM/COMM 3360 - Critical Approaches to Mass Culture
- ENGL 5990U - Capstone Seminar

C. Related Field Courses ..... 3 hours  
Foreign Language 2002 - Intermediate Language II

D. Electives ..... 18 hours

Total Semester Hours ..... 123 hours

E. Regents' Test and Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH WITH TEACHER CERTIFICATION**

A. General Requirements

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

Area F ..... 18 hours

ENGL 2100 - Literature and Humanities (unless taken in area C)

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language

COMM 2280 - Speech Communication

Physical Education ..... 3 hours

**B. Major Field Courses ..... 36 hours**

ENGL 3010 - Literary Studies

ENGL 3020 - Composition Studies

Five courses selected from:

ENGL 2111 - World Literature I

ENGL 2112 - World Literature II

ENGL 2121 - British Literature I

ENGL 2122 - British Literature II

ENGL 2131 - American Literature

ENGL 2132 - American Literature II

One course selected from:

ENGL 5400U - British Poetry

ENGL 5410U - British Novel

ENGL 5440U - Early English Literature

ENGL 5450U or 5460U - Shakespeare I or II

ENGL 5470U - 17th Century British Poetry and Prose

ENGL 5500U - 18th Century British Poetry and Prose

ENGL 5520U - 19th Century British Poetry and Prose I

ENGL 5530U - 19th Century British Poetry and Prose II

ENGL 5560U - British Drama I or ENGL 5570U - British Drama II

One course selected from:

ENGL 5350U - African American Literature

ENGL 5360U - American Novel

ENGL 5370U - American Poetry

ENGL 5380U - Southern Literature

ENGL 5540U - Modernism

One course selected from:

ENGL 5800U - Advanced Grammar

ENGL 5820U - History of the English Language

Two courses selected from:

Any upper division English course

MGSE 4180 - Young Adult Literature

**C. Related Field Courses ..... 24 hours**

Foreign Language 2002 - Intermediate Language II

MGSE 3351 - Secondary School Curriculum and Methods

MGSE 4280 - Teaching Literacy

MGSE 4392 - Secondary School Curriculum and Methods, English

MGSE 4630 - Classroom Management

MGSE 4750 - Student Teaching and Seminar (9 semester hours)

**Total Semester Hours ..... 123 hours****E. Regents' Test and Exit Exam****PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH  
(Communications)****A. General Requirements****Core Areas A, B, C, D, and E ..... 42 hours****Area F ..... 18 hours**

ENGL 2100 - Literature and Humanities (unless taken in area C)

One course selected from:

ENGL 2111 - World Literature I

ENGL 2112 - World Literature II

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

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language I

COMM 2210 – Speech Communication

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

**B. Major Field Courses** ..... 21 hours

ENGL 3720 - Technical and Business Writing

ENGL 3010 – Introduction to Literary Studies

ENGL 4700 – Advanced Composition

ENGL 5730U – Rhetoric

ENGL 4990 – Internship (3 semester hours)

Two additional literature courses, 3000 level or above

**C. Related Field Courses** ..... 27 hours

Foreign Language 2002

PHIL 2201 – Introduction to Philosophy or PHIL 2251 – Introduction to Ethics

THEA 2410 – Oral Interpretation

JOUR 3430 – Journalistic Writing and Editing

COMM 3360 – Critical Approaches to Mass Culture

One of the following options:

**Professional Writing**

COMM 3060 – Public Relations

JOUR 3270 – Journalism Lab

ENGL 5760U – Literary Nonfiction

JOUR 4000 – Topics in Journalism

**Communications**

COMM 3050 – Interpersonal and Small Group Communication

COMM 3060 – Public Relations

JOUR 3270 – Journalism Lab (1-3 hours)

One course selected from:

FILM/THEA 3400 – History of Film

FILM/THEA 3490 – Television Theory and Criticism

FILM/THEA 3500 – Introduction to Film

FILM/THEA 3510 – Film and Literature

FILM/THEA 5010U – Topics in Film

**Film and Television Studies**

Four courses selected from:

FILM/THEA 3400 – History of Film

FILM/THEA 3490 – Television Theory and Criticism

FILM/THEA 3500 – Introduction to Film

FILM/THEA 3510 – Film and Literature

FILM/THEA 5010U – Topics in Film

FILM/THEA 5020U – Film Theory and Criticism

**D. Elective Hours** ..... 12 hours

**Total Semester Hours** ..... 123 hours

**E. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH**

**A. General Requirements**

<b>Core Areas A, B, C, D, and E</b> .....	<b>42 hours</b>
<b>Area F</b> .....	<b>18 hours</b>
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	
<b>Physical Education</b> .....	<b>3 hours</b>

**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
- SPAN 4900 - Independent Study
- SPAN 4990 - Language Internship (3 semester hours)

**C. Related Field Courses** ..... **15 hours**

Fifteen (15) semester hours (minimum) of 3000-4000 level courses from the College of Arts and Sciences

**D. Electives** ..... **21 hours**

**Total Semester Hours** ..... **123 hours**

**E. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH WITH TEACHER CERTIFICATION**

**A. General Requirements:**

Core Areas A, B, C, D, 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)

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

Physical Education ..... 3 hours

**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 - Spanish Peninsular Literature II

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 4900 - Independent Study

SPAN 4990 - Language Internship

**C. Related Field Courses ..... 18 hours**

MGSE 3351 - Secondary School Curriculum and Methods

MGSE 4442 - Curriculum and Methods of Foreign Language Education

MGSE 4630 - Classroom Management

MGSE 4750 - Student Teaching and Seminar (9 semester hours)

**D. Electives ..... 6 hours**

**Total Semester Hours ..... 123 hours**

**E. Regents' Test and Exit Exam**

## MATHEMATICS

### Faculty

Ed Wheeler, Department Head  
 Jane Barnard  
 Jim Brawner  
 John Hansen  
 Sabrina Hessinger  
 Selwyn Hollis

Dale Kilhefner  
 John Leo  
 Larry Lesser  
 Tim McMillan  
 Richard Munson

### General Information

The Department of Mathematics offers the degrees of bachelor of science in mathematical sciences. Option 1 of the mathematics major – “mathematics” – prepares students to pursue graduate studies. Option 2 – “applied mathematics” – is a good choice for students preparing for careers in business and industry, or intending to attend graduate school in a quantitative area (such as biostatistics, economics, or operations research), or wishing to participate in a dual-degree program in engineering. Option 3 – “mathematics education” – prepares students to teach in public and private secondary schools. This option is an approved program for the Georgia Teacher’s Professional Four Year Certificate (T-4).

The department also offers a wide range of services to Armstrong Atlantic students. Several introductory courses are available to satisfy general education needs 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 can be designed to complement students’ major programs.

### Special Programs

**Dual Degree Program.** Under arrangements with Georgia Tech, students may in five years of study earn simultaneously the bachelor’s degree in the mathematical sciences from Armstrong Atlantic and the bachelor’s degree in any one of a number of fields of engineering from Georgia Tech. Armstrong Atlantic participates in similar programs with other major universities. Students considering a dual degree program should contact an advisor in the Department of Mathematics as soon as possible.

### Progress Requirements

To earn the bachelor’s degree in the mathematical sciences, students must complete with a grade of C or better all mathematics and computer science courses required in the program of study. A grade of C or better is also required to fulfill the prerequisites for any mathematics course except MATH 1111.

### Minors

**Mathematics** ..... 17 hours  
 MATH 2072  
 MATH 2083  
 Nine additional semester hours chosen from MATH 2160 and mathematics courses numbered 3000 or higher (excluding MATH 3911, 3932, and 4960, -70, -80)

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES

### A. General Requirements

**Core Areas A, B, C, D, 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

Two hours of approved lower division electives

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

**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

MATH 3211 - Probability and Mathematical Statistics

MATH 3411 - Differential Equations

MATH 4011 - Advanced Calculus I

One course selected from:

MATH 3170 - Advanced Linear Algebra

MATH 4022 - Advanced Calculus II

MATH 5160 - Theory of Numbers

Nine semester hours of upper-division mathematics exclusive of MATH 3911, 3932,  
and 4960, -70, -80

**C. Related Field Courses** ..... 19 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 Arts and Sciences to  
complete the requirement of at least 39 semester hours of upper-division courses.

#### Option 2: Applied Mathematics

**B. Major Field Courses** ..... 21 hours

MATH 3000 - Introduction to Mathematical Proof

MATH 3211 - Probability and Mathematical Statistics

MATH 3411 - Differential Equations

One course selected from:

MATH 3110 - Abstract Algebra

MATH 3170 - Advanced Linear Algebra

MATH 4011 - Advanced Calculus I

MATH 5160 - Theory of Numbers

Nine additional semester hours of upper-division mathematics exclusive of  
MATH 3911, 3932, and 4960, -70, -80

**C. Related Field Courses ..... 25 hours**  
**Complete the prescribed courses in one of the following concentration areas.**

**Actuarial science:**

- ECON 2105 or ECON 2106
- 2 courses selected from:
  - ECON 3050, 3060, 3300, 3500, 3600, or 3700
  - MATH 3222, 3251, 3460, or 4200

**Biology:** minor in biology

**Chemistry:** minor in chemistry

**Computer science:** minor in computer science

**Economics:** minor in economics

**Engineering studies:** minor in engineering studies

**Operations research:**

- MATH 3222
- MATH 3251
- MATH 3460
- MATH 3480
- MATH 4610
- MATH 4400

**Physics:** minor in physics

Additional courses to complete the requirement of at least 39 semester hours of upper-division courses. These courses may be chosen from mathematics, the concentration area, ENGL 3720, or HIST 5640.

**Option 3: Mathematics Education**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
 MATHEMATICS WITH TEACHER CERTIFICATION**

**B. Major Field Courses ..... 24 hours**

- MATH 3000 - Introduction to Mathematical Proof
- MATH 3110 - Abstract Algebra
- MATH 3211 - Probability and Mathematical Statistics
- MATH 3360 - Modern Geometry
- MATH 3932 - Teaching of Middle School/General Mathematics
- 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 3911, and 4960, -70, -80

**C. Related Field Courses ..... 24 hours**

- CEUG 1010 - Human Growth and Development
- CEUG 2100 - Teaching and the Exceptional Child
- MGSE 3351 - Secondary School Curriculum and Methods, General
- MGSE 4412 - Secondary School Curriculum and Methods, Mathematics
- MGSE 4630 - Classroom Management
- MSGE 4750 - Student Teaching (9 semester hours)

**D. Electives ..... 12-14 hours**

**Total Semester Hours ..... 123 hours**

**Regents' Test and Exit Exam**



## PSYCHOLOGY

### Faculty

Keith Douglass, Interim Department Head  
Joseph Lane  
Grace Martin  
Elliot Palefsky

Vann Scott  
Stephen Taylor

### General Information

The Department of Psychology offers two degrees, the bachelor of arts in psychology, and the bachelor of arts in psychology leading to teacher certification in special education: behavior disorders. Minors are available in psychology, mental health, and organizational psychology. Studies have shown that psychology majors have the opportunity to develop strengths in five important areas: critical thinking, problem solving, oral communication, written communication, and interpersonal skills.

The psychology program is based in the research tradition and offers preparation for both graduate school and entry into the job market. Besides specific courses required for the degree, students select from a variety of content courses including clinical, developmental, testing, personality, physiological, social, and industrial and organizational psychology. During the senior year, capstone courses include research projects, community internships, and senior seminar.

### Special Programs

An honors program is available, and the department recognizes student achievement by awarding the Stu Worthington Award for academic achievement and the Cindy McCormick Award for Outstanding Service to seniors in psychology.

### Progress Requirements

Along with other academic policies of the university, candidates for bachelor's degrees in psychology must earn at least a C in every required course in the major. All minors also require a C or better in each course.

### Minors

<b>Psychology</b> .....	<b>15 hours</b>
PSYC 1101	
Twelve semester hours of upper division course work	
<b>Mental Health</b> .....	<b>18 hours</b>
PSYC 1101, 3020, 3160, 3280, 4060, 5150U	
<b>Organizational Psychology</b> .....	<b>18 hours</b>
PSYC 1101, 3020, 4060, 3150, 3200, 3210.	

## PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN PSYCHOLOGY

### A. General Requirements

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

Area F ..... 18 hours

PSYC 1101 - General Psychology

PSYC 2200 - Introduction to Psychological Research

ANTH 1102 - Introduction to Anthropology

BIOL 1107 - Principles of Biology I

BIOL 1108 - Survey of the Animal Kingdom

Physical Education ..... 3 hours

### B. Major Field Courses ..... 30 hours

PSYC 3120 - Measurement

PSYC 4080 - Learning and Motivation

PSYC 4100 - History and Systems of Psychology

PSYC 4110 - Senior Seminar

Two courses from:

PSYC 3070 - Perception

PSYC 3090 - Physiological Psychology

PSYC 3190 - Animal Behavior

PSYC 3500 - Cognitive Psychology

PSYC 4060 - Behavior Modification

Two courses from:

PSYC 3030 - Experimental Social Psychology

PSYC 3110 - Theories of Personality

PSYC 3160 - Clinical Psychology

PSYC 3200 - Industrial/Organizational Psychology

PSYC 3280 - Abnormal Psychology

Two courses from:

PSYC 3020 - Psychological Testing

PSYC 3150 - Psychology of Conflict and Stress

PSYC 3210 - Psychology of Work Behavior

PSYC 3750 - Psychology of Aging

PSYC 4120 - Senior Project

PSYC 4130 - Senior Internship

### C. Related Field Courses ..... 18 hours

MATH 2220 - Elementary Statistics

CSCI 1050 - Introduction to Computer Concepts and Applications

Two course sequence of foreign language above 1002

Two courses (3000+) from the following:

psychology, sociology, anthropology, or economics

### D. Electives ..... 12 hours

One upper division course (3000+) and 3 other electives

**Total Semester Hours** ..... **123 hours**

### E. Regents' Test and Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN  
PSYCHOLOGY LEADING TO TEACHER CERTIFICATION IN SPECIAL  
EDUCATION: BEHAVIOR DISORDERS**

**A. General Requirements**

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

**Area F** ..... 18 hours

PSYC 1101 - General Psychology

PSYC 2200 - Introduction to Psychological Research

ANTH 1102 - Introduction to Anthropology

BIOL 1107 - Principles of Biology I

BIOL 1108 - Survey of the Animal Kingdom

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

**B. Major Field Courses** ..... 27 hours

PSYC 3120 - Measurement

PSYC 3160 - Clinical Psychology

PSYC 3280 - Abnormal Psychology

PSYC 3500 - Cognitive Psychology

PSYC 4060 - Behavior Modification

PSYC 4080 - Learning and Motivation

PSYC 4100 - History and Systems of Psychology

PSYC 4110 - Senior Seminar

One course from:

PSYC 2010 - Human Growth and Development

PSYC 2950 - Developmental Psychology

CEUG 1010 - Human Growth and Development

**C. Related Field Courses** ..... 12 hours

CSCI 1050 - Introduction to Computer Concepts and Applications

MATH 2220 - Elementary Statistics

Two course sequence of Spanish beyond 1001

**D. Professional Sequence** ..... 21 hours

CEUG 2100 - Teaching and the Exceptional Child

CEUG 3072 - Teaching of Reading

EEXE 4100 - Student Teaching P-12 (six semester hours)

EEXE 3500 - Characteristics of Behavioral Disorders

EEXE 3510 - Methods for Teaching Behavioral Disorders

CEUG 5010U - Education Tests and Measurements or PSYC 3020 - Psychological Testing

**Total Semester Hours**

**123 hours**

**E. Regents' Test; Praxis Behavior Disorders and ACAT-P Media Module; Admission to  
Teacher Education; Student Portfolio**

# College of Education

Lloyd Newberry, Dean  
Patricia Brandt, Assistant Dean

## Accreditation

All teacher education programs at Armstrong Atlantic State University are accredited by the Georgia Professional Standards Commission and the National Council for Accreditation of Teacher Education.

## Philosophy and Goals

The College of Education offers a variety of degree programs designed to prepare competent teachers committed to excellence in the profession and prepared to ensure success for all students. All degree programs in the College of Education are guided by specific objectives reflecting university goals. Seven principles defining the conceptual framework of the College of Education guide curriculum activity, implementation, and evaluation of goals and objectives. These principles are: P-16 initiatives; collaboration with faculty in the College of Arts and Sciences; sensitivity to diversity within our society; management and utilization of technology; acceptance of the evolving definition of teaching and all the implications for curriculum activity; learned societies and program standards; and proactive and goal-driven programs of study that are developmental in scope and sequence.

The goals of the college are to provide prospective teachers with 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 enabling them to offer appropriate educational opportunities to students from diverse cultural and economic backgrounds; abilities and skills enabling 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.

## Organization and Degrees

The College of Education includes the departments of Early Childhood Education; Health and Physical Education; Middle Grades and Secondary Education; and Special Education. The degrees offered in the College of Education are as follows:

Bachelor of Science in:

- Education in Early Childhood Education (PK-5)
- Health and Physical Education (P-12)
- Education in Middle Grades Education (4-8)
- Education in Speech-Language Pathology

Master of Education in:

- Elementary Education
- Middle Grades Education

Secondary Education in:

- English Education
- Mathematics Education
- Broadfield Science Education
- Broadfield Social Science Education

Special Education in:

- Behavior Disorders
- Learning Disabilities
- Speech-Language Pathology

The degrees offered in the College of Education in conjunction with the College of Arts and Sciences are as follows:

Bachelor of Arts in:

- English with Teacher Certification
- History with Teacher Certification
- Political Science with Teacher Certification
- Psychology leading to Teacher Certification in Special Education: Behavior Disorders
- Spanish with Teacher Certification (P-12)

Bachelor of Music Education (P-12)

Bachelor of Science in:

- Biology with Teacher Certification
- Chemistry with Teacher Certification
- Mathematical Sciences with Teacher Certification

Bachelor of Science in Education in:

- Art Education (P-12)
- Social Science Education (History)
- Social Science Education (Political Science)

The degrees offered in the College of Education in conjunction with Savannah State University are as follows:

Bachelor of Science in Education in Business Education

Master of Education in Business Education

Refer to the Armstrong Atlantic State University Graduate Catalog for further information on graduate programs.

## Special Programs

**Alternative Teacher Preparation.** The Alternative Teacher Preparation Program has been approved for those holding a baccalaureate or higher degree from an accredited college or university but not yet eligible for a license to teach. Successful completion of all program requirements will result in recommendation for a clear renewable certificate. Admission criteria for the alternative preparation program include but are not limited to: (1) an earned baccalaureate degree or advanced degree from an accredited college or university, and (2) a cumulative grade point average of 2.5 (unrounded) on a 4.0 scale for all college course work attempted.

Students who have taken staff development courses covering the content in CEUG 3072 - The Teaching of Reading, or MGSE 4280 - Teaching Literature Through Reading in the Content Areas, and CEUG 2100 - Teaching and the Exceptional Child, must pass a competency examination in order to receive credit. Alternative preparation students must meet program and course prerequisites. Please see the appropriate department head for additional information. The competency examination can be arranged through the office of professional laboratory experiences.

**Brunswick Center.** The bachelor of science in education with concentrations in early childhood and middle grades education is offered by Armstrong Atlantic State University at Coastal Georgia Community College through the Brunswick Center. The program allows students who have an associate degree to complete their baccalaureate degree in Brunswick. Interested students should contact the director of teacher education or the resident advisor at the Brunswick Center.

**Savannah State University Cooperative.** Savannah State University cooperates with Armstrong Atlantic State University to offer a major in business education, with course work in the major field of study offered by Savannah State University. Students can also earn an Armstrong Atlantic degree in middle grades education on the Savannah State campus. Students interested in either of these programs should contact the head of the Department of Middle Grades and Secondary Education at Armstrong Atlantic State University.

## Policies and Procedures

**Academic Advisement.** Students wishing to pursue teacher education leading to certification should seek academic advisement in the appropriate department — Early Childhood Education,

Health and Physical Education, Middle Grades and Secondary Education, Special Education – or see one of the full-time advisors who work with College of Education students. Students are responsible for obtaining advisement. Advisors will help students to establish programs of study which must be followed precisely. Department head approval is required for all courses on the official program of study form. Program of study forms will be filed in the appropriate departments, with copies provided to students.

**Admission to Teacher Education.** Students wishing to pursue teacher education leading to certification must apply for admission to the teacher education program. Application forms are available at the admission to teacher education meeting held every semester.

Students seeking admission to the teacher education program must meet the standards described in the Teacher Education Program Handbook. 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 program.

The following criteria apply for admission to the teacher education program in the Departments of Early Childhood Education, Middle Grades and Secondary Education, and Special Education:

1. Completion of at least 40 semester hours of college credit with a minimum cumulative 2.5 (unrounded) grade point average over all college course work attempted.
2. Completion of ENGL 1101 and 1102 or their equivalents with a C or better in each course.
3. Satisfactory completion of MATH 1111.
4. Satisfactory completion of the Regents' Test. *Students already holding baccalaureate degrees from an accredited institution are exempt from the Regents' Test.*
5. Successful completion of oral screening.
6. Indication of desirable attitude, character, and teaching potential.
7. Successful completion of Praxis I.\* *Students earning qualifying scores on the SAT, GRE, or ACT may be exempt from this requirement.*
8. Submission of four letters of recommendation (these letters may be secured from colleges or universities where applicants have been enrolled previously).
9. Submission of an up-to-date copy of the program of study.
10. Completion of approved ten hours of volunteer service in an educational setting.
11. Notarized consent form for criminal background check.

The following criteria apply for admission to the teacher education program in the Department of Health and Physical Education:

1. Completion of at least 40 semester hours of college credit with a minimum cumulative 2.5 (unrounded) grade point average over all college course work attempted.
2. Completion of ENGL 1101 and 1102 or their equivalents with a grade of C or better in each course.
3. Satisfactory completion of MATH 1111.
4. Satisfactory completion of the Regents' Test. *Students already holding baccalaureate degrees from an accredited institution are exempt from the Regents' Test.*
5. Successful completion of oral screening.
6. Successful completion of Praxis I.\* *Students earning qualifying scores on the SAT, GRE, or ACT may be exempt from this requirement.*
7. Submission of an up-to-date copy of the program of study.
8. Completion of PEHM 2900 or equivalent with a grade of C or better.
9. Three hours of physical education core courses with a grade of B or better.
10. An overall grade point average of 2.5 in PEHM 2500, PEHM 3080, PEHM 2701, and PEHM 2702.
11. Submission of four letters of recommendation with at least two from major professors and one from the Department of Health and Physical Education.
12. Notarized consent form for criminal background check.

**\*Praxis I:** All students (undergraduate and alternative preparation) applying for admission to teacher education during and since winter quarter 1998 must pass all three sections of the Praxis I before being admitted, even if they previously passed the written screening for admission to teacher education before winter quarter 1998.

**Student Teaching.** Student teaching, the culminating activity of the professional sequence, is performed in selected off-campus school centers. Applications for admission to student teaching are obtained at the admission to student teaching meeting held during the semester prior to student teaching. Completed applications must be submitted to the director of professional laboratory experiences one semester prior to the student teaching 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 established policies and procedures of the cooperating school system in addition to those policies and procedures established by the university. Orientation to student teaching will be held at the beginning of the semester in which student teaching is scheduled. The following requirements must be met before students may enroll in student teaching:

1. Completion of all courses on the program of study.
2. Admission to teacher education.
3. Satisfactory completion of all related field experiences including the pre-planning practicum. *Alternative preparation students are exempt from the pre-planning practicum.*
4. Completion of a total of nine hours of methods and curriculum courses and the classroom management course at Armstrong Atlantic State University. *Students seeking secondary education certificates take the classroom management course during student teaching.*
5. 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.
6. Recommendation by the College of Education faculty. If other than PK-5 or 4-8, students must also have recommendations from their major departments as well.
7. Valid certification in child and adult CPR and community first aid to be current throughout the student teaching semester.
8. Completion of an approved pre-service portfolio (required of students in early childhood education, art education, music education, and Spanish education).
9. Ten hours of professional development.
10. Praxis II. *Students must take Praxis II before beginning student teaching and must pass Praxis II before completing student teaching.*
11. Payment of \$250.00 student teaching fee (required of students admitted to the teacher education program after August 20, 1998).

Students who are unsuccessful may apply to student teach *one* additional time if they complete the prescribed program of remediation as outlined by the university supervisor.

**Internship.** Applications for internship must be submitted to the office of professional laboratory experiences one semester prior to the semester in which the first internship is requested. Students will be informed of their eligibility upon receipt of the completed application and prior to their first internship semester. Any questions about policies or the application process should be addressed to the director of professional laboratory experiences. Students must show their letter of eligibility in order to register for internship; students cannot preregister for internship. The following requirements must be met before a student may enroll in internship:

1. Admission to teacher education.
2. Clearance from the office of professional laboratory experiences.
3. A bachelor's degree or higher.
4. A 2.5 unrounded grade point average or higher on ALL previous college work attempted.
5. A signed program of study which approves internship as an alternative to student teaching.
6. A current provisional teaching certificate in the field of certification being pursued. *Interns must pass PRAXIS II in order to receive a provisional certificate. Provisional certificates are not available in early childhood education.*
7. Employment in a full-day program of teaching, in the major field, with typical classroom responsibilities.

8. Employment in a school accredited by the Southern Association of Colleges and Schools.
9. Completion at Armstrong Atlantic of a minimum of nine hours of curriculum and methods courses and the course in classroom management with a grade of C or better.
10. Approval form completed by the principal of the school where the intern is employed.
11. Valid certification in community first aid and child and adult CPR to be current throughout the internship period.
12. Payment of \$250.00 internship fee (required of students admitted to the teacher education program after August 20, 1998).

**Program Completion.** Students must complete the university's approved program for certification within four years following admission to the teacher education program. If a student does not complete the program in four years, he or she must meet the requirements of the program in effect at that time. For acceptable completion, each course in the teaching field, professional education sequence concentration, and related fields must be passed with a grade of C or better.

**Graduation and Certification.** Students are required to submit a completed application for graduation, updated copy of their transcripts, and program of study form to their advisors in the College of Education **two semesters prior to graduating**. Applications will be checked and approved by the appropriate department heads.

To be recommended for a teaching certificate, students must complete the requirements for an approved teacher certification program on an approved program of study, must pass PRAXIS II in the certificate field, and must complete at Armstrong Atlantic State University a majority of the courses in each of the following areas: the professional sequence, the teaching field, and the related field.

## Other Requirements

**Liability Insurance Requirement.** All students who participate in courses with required field experiences and practicums must provide evidence of liability insurance or sign a waiver of insurance coverage.

**Pre-Planning Practicum.** The pre-planning practicum provides an opportunity for future teachers to learn what teachers do at the beginning of a new school term, participate in experiences that will help them decide whether to pursue teaching as a career, and become acquainted with the organization and curriculum of a particular school.

Pre-planning practicums are scheduled at the beginning of the public school term during students' junior or senior years. The pre-planning practicum is required, but students do not receive academic credit. Alternative preparation students are exempt from this practicum.

Applications should be made during the first week of the spring semester for pre-planning practicums for the next August. Students should contact the office of professional laboratory experiences for further information.

**Portfolio.** Students are required to create portfolios demonstrating their attainment of program goals and Professional Standards Commission standards. See department heads for specific information and details.

## Minors

A minor in teacher education is available for students who do not wish to earn teacher certification. The minor incorporates courses which address leading concepts and problems in the field of education. Students majoring in general studies, psychology, health science, and other fields may find this minor a valuable adjunct to their programs of study. All courses in the minor must be passed with a grade of C or better. See advisor for specific course information.

Minors (and majors, if taken as double majors) are also available in library media. Refer to the Department of Early Childhood Education for more information.



## EARLY CHILDHOOD EDUCATION

### Faculty

Maryellen Cosgrove, Acting Department Head

Stephen Agyekum

Patricia Ball

Bettye Anne Battiste

Patricia Brandt

Evelyn Dandy

John Hobe

Cheryl McFadden

Marsha Moore

Margaret Walworth

### General Information

The Department of Early Childhood Education offers the degree of bachelor of science in early childhood education. The bachelor of science in education in art education is offered in conjunction with the Department of Art, Music, and Theatre. Majors and minors in library media are available; however, the major in library media is only available as part of a double major. For complete requirements for the degree leading to teacher certification at the elementary level, see "Special Programs," "Policies and Procedures," and "Other Requirements" in the College of Education section of this catalog.

### Special Programs

**Library Science/Media.** The library science/media program has two emphases: (1) basic information skills courses and specialized skills courses designed to help students in specific subject areas develop research skills; and (2) a major and minor in library media designed to prepare students for support positions in academic, public, and special libraries. Students wishing to become school media specialists must complete a master's degree program to be certified in the state of Georgia. The library media program provides a solid foundation toward an advanced degree in library media and information science.

### Minors

**Library Media.** A student choosing to minor in library media is required to complete the following courses with grades of C or better in each:

LMUG 3000, LMUG 3100, LMUG 3200, LMUG 4100, LMUG 4200, LMUG 4250

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

**A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hours**

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

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

ECUG 2020 - Environmental, Social, and Health Issues of the Young Child

COMM 2280 - Speech Communication

MATH 2900 - Spirit and Structure of Math

GEOG 1111 - Physical Geography

or

GEOG 2120 - Cultural Geography

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

<b>B. Major Field Courses*</b> .....	<b>51 hours</b>
ECUG 3040 - Childhood and Adolescence	
ECUG 3050 - Curriculum and Methods P-5	
ECUG 3060 - Language and Cognition	
ECUG 3071 - Literature and Literacy	
ECUG 3090 - Creative Activities	
ECUG 3100 - Contemporary Social Issues of the Family	
ECUG 3110 - Pre-Kindergarten Practicum	
ECUG 3120 - Movement and Health of the Young Child	
ECUG 4070 - Social Studies	
ECUG 4080 - Life and Physical Science	
ECUG 4090 - Classroom Management	
ECUG 4100 - Student Teaching and Seminar I**	
ECUG 4110 - Student Teaching and Seminar II**	
CEUG 3072 - Teaching of Reading	

<b>C. Related Field Course*</b> .....	<b>3 hours</b>
MATH 3911 - Math for Elementary School Teachers	

*\*Must be admitted into teacher education to enroll in these courses.*

*\*\*Must also be admitted into student teaching to enroll in these courses.*

<b>D. Content Electives</b> .....	<b>6 hours</b>
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Two courses from:

- METR 3100 - Introduction to Meteorology
- OCEA 3100 - Introduction to Oceanography
- GEOL 2010 - Introduction to Physical Geology
- GEOL 3100 - Introduction to Historical Geology
- ASTR 3100 - Introduction to Stellar Astronomy
- PSYC 3280 - Abnormal Psychology
- PSYC 3020 - Psychological Testing
- ANTH 3050 - North American Indians
- ARTS 3200 - Art and the Child
- LMUG 3100 - Reference Sources
- LMUG 3200 - Cataloguing and Classification
- MUSC 3200 - Music for the Elementary Teacher
- PEEC 3200 - Health and Physical Education for the Elementary School Teacher or any other English, history or science courses (3000 or above)

<b>Total Semester Hours</b>	<b>123 hours</b>
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**E. Regents' Test and Praxis I and II**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN ART EDUCATION**

<b>A. General Requirements (Core Areas A, B, C, D, and E)</b> .....	<b>42 hours</b>
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<b>Area F</b> .....	<b>18 hours</b>
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- ARTS 1020 - 2D Design
- ARTS 1030 - 3D Design
- ARTS 1010 - Drawing I
- ARTS 2710 - Art History I
- CEUG 1010 - Human Growth and Development
- CEUG 2100 - Teaching and the Exceptional Child
- Physical Education** .....

**3 hours**

<b>B. Major Field Courses .....</b>	<b>54 hours</b>
ARTS 1011 - Drawing II	
ARTS 2720 - Art History II	
ARTS 2011 - Painting I	
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	
ARTS 3700 - Figure Sculpture	
ARTS 3750 - Contemporary Art and Criticism	
ARTS 4500 - Curriculum and Methods in Art Education	
ARTS 3500 - Art in Elementary Grades	
ARTS 3510 - Art for the Pre-Adolescent and Adolescent	
Any upper division craft class	
Any art elective	
Six semester hours of upper division studio courses from one of the following areas: drawing and painting, sculpture, ceramics, crafts, or photography.	

<b>C. Related Field Courses* .....</b>	<b>12 hours</b>
CEUG 4110** - Student Teaching P-12	
CEUG 4630* - Classroom Management P-12	

*\*Must be admitted into teacher education to enroll in these courses*

*\*\*Must also be admitted into student teaching to enroll in these courses*

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**Total Semester Hours 129 hours**

**D. Regents' Test, Orientation to Teaching or equivalent, Admission to Teacher Education including Praxis I, Education Teaching Portfolio, Admission to Student Teaching, Current Certification in CPR/First Aid, Senior Art Show, Senior Art Gallery Talk, Praxis II Exit Exam.**

### **LIBRARY MEDIA DOUBLE-MAJOR PROGRAM (NON-CERTIFICATION)**

<b>A. Major Field Courses .....</b>	<b>18 hours</b>
LMUG 3000 - Introduction to Media Profession	
LMUG 3100 - Reference Sources	
LMUG 3200 - Cataloguing and Classification	
LMUG 4100 - Media Selection	
LMUG 4200 - Administration of Information Centers	
LMUG 4250 - Media Internship	
<b>B. Related Field Courses .....</b>	<b>3 hours</b>
CSCI 1050 - Introduction to Computer Concepts and Applications	
or	
CSCI 1060 - Computer Concepts and Applications for Science Students	
<b>C. Electives .....</b>	<b>15 hours</b>
<b>Total Semester Hours .....</b>	<b>36 hours</b>

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## HEALTH AND PHYSICAL EDUCATION

### Faculty

Michael Lariscy, Department Head  
Eddie Aenchbacher  
Karen Clevenger  
Roger Council  
Andreas Koth

Virginia Knorr  
Lynn Roberts  
Greg Wimer

### General Information

The Department of Health and Physical Education offers the degree of bachelor of science in education in health and physical education, as well as a physical education minor with a choice of coaching or athletic training emphasis. The department provides a range of academic, service, and athletic programs in an intellectually, physically, and socially stimulating environment.

The bachelor's degree in health and physical education provides the student with a degree leading to teacher certification P-12 in the areas of health and physical education. Students selecting this major should seek advisement in the Department of Health and Physical Education. Provisions for transfer of credits are delineated in the Academic Regulations section of the catalog. Students pursuing this degree should read "Special Programs", "Policies and Procedures", and "Other Requirements" in the College of Education section of this catalog.

In addition, the department provides the physical education courses required of all Armstrong Atlantic students. During the freshman and sophomore years, all students must complete PEBC 2000 (Concepts of Fitness) 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 of health and physical education.

### 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.

**The Intramural Program.** The department provides opportunities to the entire university community for participation in a wide variety of sports and recreational activities, regardless of ability. Sportsmanship and increased physical fitness are encouraged among all participants and spectators.

**The Community Service Program.** Activities designed to appeal to the community and allow access to the campus gymnasias and field facilities enhance the university's relationship with the community and provide an environment of learning and enjoyment for all.

### Progress Requirements

Students must complete core requirements and pass the Regents' Test. Students declaring a physical education major are assigned faculty advisors. Conferences must be scheduled to determine any and all conditions and requirements students must meet in order to complete degree and certification objectives. Students are responsible for initiating and maintaining the advisement process. Students must apply for admission to teacher education, which requires a 2.5 grade point average, completion of media competency, pre-planning practicum, application for student teaching, Praxis I, and education orientation or equivalent. In addition, students must successfully complete all departmental requirements, including all additional major courses, proficiency tests, and Praxis II. Application for graduation must be made two semesters before graduation. See the College of Education section of this catalog for complete information.

## Minors

<b>Coaching Emphasis</b> .....	<b>18 hours</b>
PEAT 2100 - Prevention and Care of Sport Injuries	
Two courses selected from: PEEC 3120, PEEC 3130, PEEC 3140, PEEC 3150	
Two courses selected from: PEHM 3070, PEEC 3330, PEEC 3340	
Two courses selected from: PEHM 3500, PEHM 3700, PEHM 3770, PEHM 3780, PEHM 3800, PEHM 4400	
<b>Athletic Training Emphasis</b> .....	<b>18 hours</b>
PEHM 2282, PEHM 2283, PEHM 3500, PEAT 3450, PEAT 3460, PEAT 4050	
<b>Athletic Training Internship</b> .....	<b>28 Hours</b>
PEHM 2281, PEHM 2282, PEHM 2283, PEHM 3500, PEHM 3780, PEAT 3450, PEAT 3460, PEAT 4050, PEAT 4400, PEAT 4480	
In addition to the above courses, students are required to complete 1500 hours in an athletic training setting to be eligible to take the NATA boards.	

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

<b>A. General Requirements (Core Areas A, B, C, D, and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
CEUG 1010 - Human Growth and Development	
CEUG 2100 - Teaching and the Exceptional Child	
PEAT 2100 - Prevention and Care of Sport Injuries	
PEHM 2281 - Human Structure and Function I	
PEHM 2283 - Kinesiology	
PEHM 2500 - Foundations of Physical Education	
PEHM 2900 - Technology in Health and Physical Education	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>58 hours</b>
PEHM 2701 - Team Sport Techniques I	
PEHM 2702 - Team Sport Techniques II	
PEHM 3000 - Current Health Education Issues	
PEHM 3780 - Substance Abuse Education	
PEHM 3500 - Exercise Physiology	
PEHM 3050 - Theory and Techniques of Dance	
PEHM 4701 - Elementary Curriculum and Methods	
PEHM 3770 - Health and Human Sexuality Education or HSCP 3770 - Health/Sexuality Education	
PEHM 3060 - Recreational Games	
PEHM 3700 - Individual and Dual Sports	
PEHM 3800 - Sport Strategies and Methods	
PEHM 4050 - School Health Education	
PEHM 4702 - Curriculum Development and Application I	
PEHM 4200 - Assessment in Health and Physical Education Programs	
PEHM 4300 - Management Skills in Health and Physical Education	
PEHM 3070 - Aquatics	
PEHM 3080 - Outdoor Education	
PEHM 4400 - Fitness Theory and Application	
PEHM 4703 - Middle/Secondary Physical Education Curriculum and Methods	
PEHM 4900 - Student Teaching/Seminar	
<b>C. Approved Electives</b> .....	<b>3 hours</b>
<b>Total Semester Hours</b>	<b>123 hours</b>
<b>D. Regents' Test and Praxis I and II</b>	

**MIDDLES GRADES AND SECONDARY EDUCATION**

**Faculty**

- |  |                 |
|--|-----------------|
| Patricia Coberly, Acting Department Head |                 |
| JoAnn Coleman                            | Chris Schuberth |
| George Chenault                          | Michelle Sisson |
| Mary-Louise Meyer                        | Edward Strauser |
| Lloyd Newberry                           | Thomas Worley   |
| Warren Schollaert                        | Freya Zipperer  |

**General Information**

The Department of Middle Grades and Secondary Education offers the degrees of bachelor of science in education in middle grades education. The degree of bachelor of science in education in social science education (history) is offered in conjunction with the Department of History, and the degree of bachelor of science in education in social science education (political science) is offered in conjunction with the Department of Criminal Justice, Social and Political Science. The department offers the degree of bachelor of science in education in business education in conjunction with Savannah State University. For complete requirements for degrees leading to teacher certification at the middle and secondary level, see "Special Programs," "Policies and Procedures," and "Other Requirements" in the College of Education section of this catalog.

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN MIDDLE GRADES EDUCATION**

- A. **General Requirements (Core Areas A, B, C, D, and E)** ..... 42 hours
    - Core Area F** ..... 18 hours
      - CEUG 1010 - Human Growth and Development
      - CEUG 2100 - Teaching and the Exceptional Child
      - COMM 2280 - Speech Communication
      - GEOG 1111 - Physical Geography
      - MATH 2900 - Spirit and Structure of Math
      - MGSE 2150 - Adolescent Growth and Development
      - Physical Education** ..... 3 hours
  - B. **Major Field Courses\*** ..... 36 hours
    - MGSE 3060 - Curriculum and Methods (4-8)
    - MGSE 3071 - Language Arts Theory and Practice
    - MGSE 3080 - Student and Program Evaluation
    - MGSE 3100 - Middle School Theory and Practice
    - MGSE 4090 - Classroom Management (4-8)
    - MGSE 4100 - Student Teaching and Seminar I\*\*
    - MGSE 4110 - Student Teaching and Seminar II\*\*
    - MGSE 4280 - Teaching Literacy through Reading in the Content Areas
    - MGSE 4342 - Social Studies Theory and Practice (4-8)
    - MGSE 4340 - Physical Science Theory and Practice\*\*\*
    - or
    - MGSE 4350 - Life Science Theory and Practice\*\*\*
  - C. **Related Field Courses\*** ..... 6 hours
    - MATH 3911 - Math for Elementary School Teachers
    - MATH 3932 - Teaching of Middle School/General Math
- \*Must be admitted into teacher education to enroll in these courses.*  
*\*\*Must also be admitted into student teaching to enroll in these courses.*  
*\*\*\*Must select MGSE 4350 if a physical science is taken in area D or select MGSE 4340 if a life science is taken in area D.*
- D. **Concentration Electives** ..... 18 hours
    - Three (3) advisor-approved upper division courses (3000 level or higher) above the core required for each of two areas of concentration

**Total Semester Hours** ..... 123 hours

**E. Regents' Test and Praxis I & II**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
EDUCATION IN SOCIAL SCIENCE EDUCATION (History)**

- A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hours**  
**Core Area B (One of the following global perspective courses is recommended for certification purposes.)**  
 POLS 1150 - World Politics  
 POLS 2250 - International Organizations  
 POLS 2290 - Foundations of International Relations  
 GEOG 1100 - World Regional Geography  
 ANTH 1150 - Global Perspectives in Anthropology: Peoples of the World  
 HIST 1111 - Civilization I  
 HIST 1112 - Civilization II  
**Core Area D (The following course is recommended for certification purposes.)**  
 MATH 2200  
**Core Area F ..... 18 hours**  
 CEUG 1010 - Human Growth and Development  
 CEUG 2100 - Teaching and the Exceptional Child  
 GEOG 1111 - Physical Geography **or**  
 GEOG 2120 - Cultural Geography  
 MATH 2200 - Elementary Statistics\*  
 Foreign Language 1002  
 Foreign Language 2001  
*\* If taken in area D, substitute approved social science or history course.*  
**Physical Education ..... 3 hours**  
**B. Major Field Courses ..... 21 hours**  
 HIST 4500 - Historical Methods  
 HIST 2111 - History of America to 1877 **or**  
 HIST 2212 - History of America since 1865 (or approved social science course if already taken in area E)  
 HIST 3710 - Colonial and Revolutionary America **or**  
 HIST 3770 - U.S. History 1917-1960  
 Approved American history course  
 One or two approved European history course(s)  
 One or two approved non-western history course(s)  
**C. Related Field Courses ..... 18 hours**  
 MGSE 3351 - Secondary School Curriculum and Methods, General\*  
 MGSE 4492 - Secondary School Curriculum and Methods, Social Science\*  
 MGSE 4630 - Classroom Management\*  
 MGSE 4750 - Student Teaching and Seminar\*\*  
*\*Must be admitted into teacher education to enroll in these courses.*  
*\*\*Must also be admitted into student teaching to enroll in these courses.*  
**D. Content Electives ..... 21 hours**  
 Two upper division courses each from two of four approved social science fields (as determined by social science courses selected in areas B, E, & F)  
 Two other approved social science courses  
 A second civilization course (if not already taken in areas B or E), or another approved social science course

**Total Semester Hours**

**123 hours**

**E. Regents' Test and Praxis I & II**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
EDUCATION IN SOCIAL SCIENCE EDUCATION (Political Science)**

**A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hours**

**Core Area B (One of the following global perspective courses is recommended for certification purposes.)**

ANTH 1150 - Global Perspectives in Anthropology: Peoples of the World

GEOG 1100 - World Regional Geography

HIST 1111 - Civilization I

HIST 1112 - Civilization II

**Core Area D (The following course is recommended for certification purposes.)**

MATH 2200 - Elementary Statistics

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

CEUG 1010 - Human Growth and Development

CEUG 2100 - Teaching and the Exceptional Child

GEOG 1111 - Physical Geography or

GEOG 2120 - Cultural Geography

MATH 2200 - Elementary Statistics\*

Foreign Language 1002

Foreign Language 2001

*\* If taken in area D, substitute approved social science or history course.*

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

**B. Major Courses ..... 21 hours**

Six courses from four areas with at least one course from each area:

**Area One**

POLS 3170 - Constitutional Law and the Federal System

POLS 3180 - Constitutional Civil Liberties

POLS 4110 - American Presidency

POLS 4120 - Congress and Political Parties

POLS 4150 - American Supreme Court

**Area Two**

POLS 3300 - Political Philosophy: Ancient and Medieval

POLS 3310 - Modern Political Philosophy

POLS 3320 - American Political Thought

POLS 3330 - Contemporary Political Thought

**Area Three**

POLS 3260 - International Law

POLS 4200 - Independent Study in International Relations

POLS 4280 - Seminar in Global Politics

POLS 4290 - American Foreign Policy

POLS 4400 - Independent Study in Comparative Government

**Area Four**

POLS 3420 - Politics of Underdevelopment: Africa and Latin America

POLS 3460 - Governments of East Asia

POLS 3480 - Governments of Western Europe

POLS 3490 - The Political Transformation of the Former Soviet Union

**Capstone Course**

POLS 4950 - Seminar in Political Science

**C. Related Field Courses ..... 18 hours**

MGSE 3351 - Secondary School Curriculum and Methods, General\*

MGSE 4492 - Secondary School Curriculum and Methods, Social Science\*

MGSE 4630 - Classroom Management\*

MGSE 4750 - Student Teaching and Seminar\*\*

*\*Must be admitted into teacher education to enroll in these courses.*

*\*\*Must also be admitted into student teaching to enroll in these courses.*



- D. Related Field Electives** ..... **21 hours**  
 Two upper division courses each from two of four approved history/social science fields (as determined by history/social science courses selected in areas B, E, & F)  
 One other upper division history course  
 Two other approved social science courses

**Total Semester Hours** ..... **123 hours**

**E. Regents' Test and Praxis I & II**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN BUSINESS EDUCATION**

- A. General Requirements (Core Areas A, B, C, D, E)** ..... **42 hours**  
**Core Area F - Business Core** ..... **18 hours**  
 ACCT 2101 - Principles of Financial Accounting  
 ACCT 2102 - Principles of Managerial Accounting  
 BUSA 1100 - Introduction to Business  
 BUSA 2105 - Communicating in the Business Environment  
 ECON 2105 - Principles of Microeconomics  
 ECON 2106 - Principles of Macroeconomics  
**Physical Education** ..... **3 hours**  
**Freshman Year Experience** ..... **2 hours**  
**B. Foundation of Knowledge of Business** ..... **36 hours**  
 BUSA 2106 - The Environment of Business  
 BUSA 4125 - Public Policy  
 BUSA 4126 - Business Policy  
 CISM 3135 - Advanced Computer Applications in Business  
 ECON 3145 - Global Business Issues  
 FINC 3155 - Business Finance  
 MKTG 3175 - Principles of Marketing  
 MGNT 3165 - Organizational Behaviour and Theory  
 MGNT 3167 - Management of Technology  
 QUAN 2181 - Quantitative Methods of Business I  
 QUAN 2182 - Quantitative Methods of Business II  
 QUAN 3185 - Quantitative Methods and Production Management  
**C. Major: Management with Emphasis in Business Education** ..... **24 hours**  
 Orientation to Business Education Module  
 CEUG 1010 - Human Growth and Development  
 CEUG 2100 - Teaching and the Exceptional Child  
 MGNT 4167 - Training and Development for Human Resources  
 MGSE 3351 - Secondary School Curriculum and Methods, General\*  
 MGSE 4630 - Classroom Management\*  
 MGSE 4750 - Student Teaching and Seminar\*\*

*\*Must be admitted into teacher education to enroll in these courses.*

*\*\*Must also be admitted into student teaching to enroll in these courses.*

**Total Semester Hours** ..... **125 hours**

**D. Regents' Test and Praxis I & II**

## SPECIAL EDUCATION

### Faculty

Pamela Harwood, Acting Department Head

Robin Barton

Joyce Bergin

Donna Brooks

Migdalia Garcia

Donald Hall

Robert Loyd

Constance Wambold

Susan White

### General Information

The Department of Special Education offers a bachelor of science in education in speech-language pathology. The undergraduate speech-language pathology program does not prepare students for initial certification regardless of the work setting. All students must complete a graduate training program in speech-language pathology to be eligible for certification and/or licensure.

### Admission Requirements

Interested students must meet the established requirements for admission to the speech-language pathology program and to the College of Education. All interested students must see a College of Education advisor to determine their program admission status.

### Special Requirements

The speech-language pathology (SLP) program requires that students pass a speech, language, and hearing screening administered by the program faculty. Students must earn an average of 3.0 or better in the following courses: Introduction to Communicative Disorders; Phonetics; Anatomy and Physiology of Speech and Hearing Mechanisms. Each student must have a positive endorsement from a member of the speech-language pathology faculty based upon established SLP professional conduct standards. Students must have earned a cumulative overall grade point average of 2.5 for acceptance into the SLP program.

### PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SPEECH-LANGUAGE PATHOLOGY

<b>A. General Requirements (Core Areas A, B, C, D, and E)</b>	<b>42 hours</b>
<b>Core Area F</b>	<b>18 hours</b>
CEUG 1010 - Human Growth and Development	
CEUG 2100 - Teaching and the Exceptional Child	
PSYC 1101 - General Psychology	
COMM 2280 - Speech Communication	
MATH 2900 - Spirit and Structure of Math	
ECUG 2020 - Environmental, Social, and Health Issues of the Young Child	
<b>Physical Education</b>	<b>3 hours</b>
<b>B. Major Field Courses</b>	<b>48 hours</b>
SLPA 1220 - Introduction to Communication Disorders	
SLPA 2250 - Phonetics	
SLPA 2230 - Anatomy and Physiology of Speech and Hearing Mechanisms	
SLPA 3150 - Normal Speech and Language Development	
SLPA 3410 - Introduction to Audiology	
SLPA 3420 - Language Disorders	
SLPA 3430 - Organically Based Communication Disorders	
SLPA 3450 - Articulation Disorders	
SLPA 4140 - Non-Verbal Communication	

- SLPA 4170 - Introduction to Diagnostic Procedures in Speech-Language Pathology
- SLPA 4180 - Directed Observations in Speech-Language Pathology
- SLPA 4190 - Clinical Methods in Speech-Language Pathology
- SLPA 4210 - Senior Seminar
- SLPA 4350 - Speech Science
- SLPA 4450 - Practicum in Speech-Language Pathology
- SLPA 4500 - Introduction to Research in Speech-Language Pathology

**C. Related Field Courses ..... 9 hours**

- CEUG 3072 - Teaching of Reading
- PSYC 3020 - Psychological Testing
- PSYC 3280 - Abnormal Psychology

**D. Free Electives ..... 3 hours**

**Total Semester Hours 123 hours**

**E. Regents' Test and Praxis I**

# College of Health Professions

James Repella, Dean  
Marilyn Buck, Assistant Dean

## 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 Dental Hygiene; Health Science; Medical Technology; Nursing; Physical Therapy; Radiologic Sciences; and Respiratory Therapy. The degrees offered in the College of Health Professions are as follows:

- Associate of Science in Dental Hygiene
- Bachelor of Health Science
- Bachelor of Science in:
  - Dental Hygiene Education
  - Medical Technology
  - Nursing
  - Physical Therapy
  - Radiologic Technologies
  - Respiratory Therapy
- Master of Health Services Administration
- Master of Public Health
- Master of Science in:
  - Nursing
  - 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 Atlantic State University Graduate Catalog.

## Special Programs

**Interdisciplinary Core Curriculum.** The College of Health Professions has developed a series of interdisciplinary courses designed to provide health professions students with common knowledge, skills and values needed to practice in evolving health care delivery systems. This core curriculum includes introductory courses in health care and medical terminology, research, pharmacology, basic patient care skills, and an interdisciplinary seminar.

## Policies and Procedures

**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 Atlantic State University nor completion of prerequisite courses guarantees your admission to a health professions program. Because each program has its own admission criteria and procedure for admission, students must apply to the particular programs they wish to enter.

**No more than two (2) science courses may be repeated, and no one course may be repeated more than once.** If a student fails a course a second time, he or she will not be eligible for admission to health programs for which this course is a requirement. Only students making satisfactory progress toward admission to or in an Armstrong Atlantic health program will be assigned or retain a seat.

**Limits on Readmission.** Students failing (i.e., a grade lower than C) two courses in their majors or failing the same major course twice are ineligible for readmission to that major.

## Other Requirements

**Health and Insurance.** Completed health histories, evidence of health insurance, and evidence of liability (malpractice) insurance are required of students in dental hygiene, medical technology, nursing, physical therapy, radiologic science, and respiratory therapy.

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## DENTAL HYGIENE

### Faculty

Barbara Tanenbaum, Department Head  
Teresa Coursey  
Suzanne Edenfield

Janice Mengle  
Barbara Stubbs

## Accreditation

The dental hygiene curriculum is approved by the Commission on Dental Accreditation of the American Dental Association.

## General Information

The Department of Dental Hygiene offers two degrees: associate of science in dental hygiene, and bachelor of science in dental hygiene education. Dental hygiene programs at Armstrong Atlantic are designed to educate students who will demonstrate the following: competency in clinical skills; respect for the dental team; possession of ethical and professional standards; ability to apply both academic and state-of-the-art technical knowledge gained from their general education, dental hygiene, and biomedical and dental science courses; effective communication skills; and well-developed critical thinking and research skills enhancing an interest in life-long learning and professional improvement.

**Associate of Science in Dental Hygiene.** Practicing under the supervision of dentists, dental hygienists provide dental health services in private dental offices, civil service positions, industry, and various public health fields. They must pass national and regional or state board examinations for licensure. This program requires completion of a two-year curriculum. Students will work with dental hygiene faculty and participate in classes, clinics, laboratories, and extra-mural rotations.

**Bachelor of Science in Dental Hygiene Education.** The bachelor's degree program is designed for the post-associate degree registered dental hygienist. The program provides additional education to prepare registered dental hygienists to assume key roles in educational and other settings. Students may enter the program on a full or part-time basis. The program includes courses that will enable graduates to be employed in areas such as dental hygiene and dental assisting education, consulting, management, marketing, research, and public health. Students will work with the dental hygiene faculty and participate in the student teaching practicums in various associate degree classes, clinics, laboratories, and extra-mural facilities.

## Special Programs

**Armstrong Atlantic/Coastal Georgia and East Georgia Innovative Curriculum.** The Department of Dental Hygiene offers a part-time curriculum via distance learning for students who have been formally admitted to the program and reside in either the Brunswick or Swainsboro service areas. Application, admission, requirements, and policies for this program are consistent with the traditional associate degree program. Information and applications for this program can be obtained by contacting the department.

## Admission Requirements

**Associate of Science in Dental Hygiene.** Admission to Armstrong Atlantic State University does not in any way guarantee admission to the associate degree program in dental hygiene. Applicants must first be accepted to the university with regular admission status before the dental hygiene admissions committee evaluates their completed applications to the associate degree program in dental hygiene. See "Limits on Admission" in the College of Health Professions section of this catalog. Students matriculate in the fall semester of every year. Applications for admission must be completed by the deadline for the fall semester and must include transcripts of all academic work. Please contact the department for application deadline date.

Admission to the associate degree dental hygiene major is on a space-available basis, and meeting requirements does not guarantee admission to the dental hygiene major. The dental hygiene admissions committee determines the best qualified students by using an admission point index system. This system is based upon college grade point average, number of college credits completed, and science grade point average. Special emphasis is placed upon grades earned in CHEM 2010, BIOL 2081, BIOL 2082, and BIOL 2210 (or their equivalents). The following are additional admission requirements:

- Eligibility for ENGL 1101 and MATH 1101
- Minimum adjusted college grade point average of 2.0
- All items listed under "Special Requirements"

Transfer applicants and those with degrees in other fields must meet the criteria established for admission to the dental hygiene major. Transfer credit will be awarded depending upon equivalency of courses. These decisions will be made by dental hygiene faculty members using actual course syllabi, outlines, descriptions, and the like, supplied by the transfer student.

Upon admission, students must pay a \$100.00 non-refundable deposit to reserve a place in the program. This deposit is applied to first semester matriculation fees.

**Bachelor of Science in Dental Hygiene Education.** Applicants for the program must be graduates of accredited associate degree dental hygiene programs and licensed as registered dental hygienists. It is preferred that applicants have at least one year of professional experience, which may include any dental-related work experience. Students begin their course of sequenced dental hygiene courses in the fall semester, therefore, application for admission should be completed prior to the beginning of fall semester.

Transfer credits are accepted for courses other than the professional sequence; however, a minimum of 30 semester hours must be earned at Armstrong Atlantic State University for this degree to be awarded from this institution. The office of the registrar will evaluate all transfer credits. The department has a formal admission process separate from the admission process for the university, and application to each must be made separately. Additional admission requirements include the following:

- A minimum 2.0 grade point average on all previous college work. Students transferring from another college must have this average to be considered for admission. The 2.0 average must be maintained to date of actual matriculation in the program.
- National board scores submitted to the Department of Dental Hygiene
- Proof of state licensure submitted to the Department of Dental Hygiene
- Applicable items under "Special Requirements"

## Special Requirements

**Health and Insurance.** All students are required to submit completed medical report forms, evidence of health insurance, and evidence of liability (malpractice) insurance prior to participation in clinical experiences.

**Legal.** The Georgia Board of Dentistry shall have the authority to refuse to grant a license to an applicant who has been convicted of any felony or any crime involving moral turpitude. This law is further defined in 43-11-47 of the *Georgia Board of Dentistry Laws*. Because of the inability of these persons to become or remain registered dental hygienists, persons to whom this law applies may not be admitted into or may be dismissed from the program.

**Technical.** Minimum physical and communication standards are part of the admission process. Complete technical standards are included in the admissions information packet.

**CPR.** Students must obtain certification prior to providing patient services in DHYG 1102 and/or entry into the bachelor of science degree program.

## Progress Requirements

All students must earn a C or better in each dental hygiene course before entering subsequent dental hygiene courses. A grade of D or F will result in students' dismissal from the program.

Students must earn a C or better in each of the four required natural science courses (CHEM 2010, BIOL 2081, BIOL 2082, BIOL 2210) that are prerequisite to the 2000-level dental hygiene courses. No more than two science courses may be repeated and no more than one course may be repeated more than once. If a student fails a course a second time, he or she will not be eligible for admission to the dental hygiene program. If a student fails two courses in the dental hygiene major or fails the same course twice in the dental hygiene major, that student is ineligible for readmission to the dental hygiene program. Students must have passed the Regents' Test before entering their last semester, and an overall grade point average of 2.0 is required for graduation.

**Challenge Examinations.** Challenge examinations for specific dental hygiene subject areas are available in the department. Contact the department for information.

**Associate Degree in Dental Hygiene.** Students must complete the two-year program of 78 semester hours within four consecutive academic years from the date of initial entry into the program. Students who do not complete the program within this time must apply for readmission (see "Readmission Requirements").

## Readmission Requirements

Students must complete readmission applications for both Armstrong Atlantic State University and the Department of Dental Hygiene, and must meet admission and curriculum requirements in effect at time of readmission.

Readmission will be based upon space availability and recommendation by the dental hygiene admissions committee. Students' previous credits must be evaluated at the time of readmission. A grade of D or F in a dental hygiene course will result in dismissal and future ineligibility for readmission to the dental hygiene program.

## PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE IN DENTAL HYGIENE

<b>A. General Requirements</b> .....	<b>33 hours</b>
ENGL 1101 - Composition I	
ENGL 1102 - Composition II	
MATH 1111 - College Algebra	
CHEM 2010 - Essentials of Chemistry	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2210 - Microorganisms and Disease	
HIST/POLS 1100 - Political History of America and Georgia	
SOCI 1101 - Introductory Sociology	
PSYC 1101 - General Psychology	
<b>Physical Education</b> .....	<b>2 hours</b>
<b>B. Major Field Courses</b> .....	<b>43 hours</b>
DHYG 1100 - Head and Neck Anatomy	
DHYG 1101 - Clinical Dental Hygiene I	
DHYG 1102 - Clinical Dental Hygiene II	
DHYG 1110 - Dental Anatomy	
DHYG 1120 - Dental Roentgenology	
DHYG 1130 - General and Oral Pathology and Oral Histology	
DHYG 1140 - Periodontics	
DHYG 2201 - Clinical Dental Hygiene III	
DHYG 2202 - Clinical Dental Hygiene IV and Ethical Decisions	
DHYG 2210 - Pharmacology, Emergency Management, and Anesthesiology	
DHYG 2220 - Dental Materials	
DHYG 2230 - Applied Nutrition	
DHYG 2240 - Preventive Periodontics	
DHYG 2250 - Dental Public Health	
<b>Total Semester Hours</b>	<b>78 hours</b>
<b>C. Regents' Test and Exit Exam</b>	



## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN DENTAL HYGIENE EDUCATION

<b>A. General Requirements (Core Areas A, B, C, D.2.B., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>39 hours</b>
Credit based on valid dental hygiene licensure and passing applicable national, state and/or regional examinations and program specific courses taken as part of the career associate degree at AASU or another accredited dental hygiene program. The 18 hours of area F are included in the 39 hour career block. Area F plus lower level dental hygiene courses equal 39 hours.	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>21 hours</b>
DHED 3300 - Dental Hygiene Research	
DHED 4400 - Foundations of Dental Hygiene Education	
DHED 4401 - Educational Methods in Dental Hygiene Education I	
DHED 4402 - Educational Methods in Dental Hygiene Education II	
DHED 4403 - Directed and Individual Study	
HLPR 4200 - Interdisciplinary Health Professions Seminar	
One course selected from:	
DHED 3310 - Dental Management of Medically Compromised Patients	
DHED 4410 - Advanced Periodontics	
DHED 4490H - Honors Advanced Periodontics	
<b>C. Related Field Courses</b> .....	<b>18 hours</b>
HSCA 4640 - Managed Care Concepts	
HSCP 5550U - Nutrition	
PSYC 3750 - Psychology of Aging	
PSYC 3050 - Topics in Development	
<b>or</b>	
PSYC 3500 - Cognitive Psychology	
One course selected from:	
HSCA 4620 - Health Care Administration	
HSCC 3120 - Health Policy and Law	
HSCP 3720 - Ethical Theories and Moral Issues in Public Health	
One course selected from:	
HSCG 5500U - Survey of Gerontology	
HSCG 5510U - Healthy Aging	
<b>Total Semester Hours</b>	<b>123 hours</b>
<b>D. Regents' Test and Exit Exams</b>	

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## HEALTH SCIENCE

### Faculty

James Streater, Department Head and Graduate Coordinator of Public Health

Dave Dumpe, Graduate Coordinator of Health Services Administration

Joey Crosby

Emma Simon

Robert Lefavi

Linda Wright

### General Information

Offering the degree of bachelor of health science, the Department of Health Science provides educational opportunities for both those wishing to enter a health field and those experienced health professionals wishing to further their career opportunities by additional academic work. More specifically, the objectives of the program are to teach students that behavioral change can occur through education; to prepare students to foster health, promote health, and prevent disease;

and to provide opportunities for students to gain special expertise in the health-related areas of health promotion, education, administration, nursing and allied health professions, or athletic training.

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.

## Special Programs

**Health Science 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 corequisites to HSCG 5520U.

Required courses (9 hours):

HSCG 5500U - Survey of Gerontology

HSCG 5510U - Healthy Aging

HSCG 5520U - Gerontology Practicum

Three courses (9 hours) chosen from:

HSCP 5550U - Nutrition

PSYC 3750 - Psychology of Aging

PEEC 5580U - Physical Activity and the Older Adult

Approved elective course(s)

## Admission Requirements

In addition to a completed health science program application made to the department, students must seek regular admission to Armstrong Atlantic State University. Students must be eligible for MATH 1111 or ENGL 1101, and must undergo a formal interview conducted by health science faculty members.

## Progress Requirements

Students must earn a grade of C or better in each course in the health science core and emphasis area. Courses may be repeated only once; thus, students failing to earn a C or better in the second attempt will be dismissed from the program.

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.

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. All bachelor of health science students must have current CPR certification at the time of graduation.

**PROGRAM FOR THE DEGREE OF BACHELOR OF HEALTH SCIENCE**

**A. General Requirements (Core Areas A, B, C, D.1., and E) ..... 42 hours**

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

COMM 2280 - Speech Communication

CSCI 1050 - Computer Concepts and Applications

HLPR 1100 - Health Care and Medical Terminology

HSCC 2110 - Health and Human Development

Two courses selected from:

MATH 2200 - Statistics\*

ANTH 1102 - Anthropology\*\*

ECON 2105 - Macroeconomics\*\*

PSYC 1101 - Psychology\*\*

SOCI 1101 - Sociology\*\*

\* If not taken in area D.

\*\*If not taken in area E.

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

**B. Major Field Courses ..... 17 hours**

HLPR 2000 - Research in the Health Professions

HSCC 3000 - Health Issues and Resources

HSCC 3010 - Health Communication Strategies

HSCC 3120 - Health Policy and Law

HSCC 3140 - Epidemiology

HSCC 4010 - Health Planning and Marketing

**C. Related Field Courses ..... 43 hours**

**Student will choose one specialty track.**

**Health Services Administration**

HSCA 3601 - Health Care Finance I

HSCA 3602 - Health Care Finance II

HSCP 3710 - Worksite Wellness and Safety

HSCP 3720 - Ethical Theories and Moral Issues in Public Health

HSCA 4610 - Health Care Economics

HSCA 4620 - Health Care Administration

HSCA 4630 - Health Information Systems

HSCA 4640 - Managed Care Concepts

HSCA 4920 - Health Services Administration Practicum

PSYC 3200 - Industrial/Organizational Psychology

PSYC 3210 - Psychology of Work Behavior

HLPR 4200 - Interdisciplinary Health Professions Seminar

Electives (6 hours)

**Long Term Care**

HSCA 3601 - Health Care Finance I

HSCA 3602 - Health Care Finance II

HSCP 3710 - Worksite Wellness and Safety

HSCA 4610 - Health Care Economics

HSCA 4620 - Health Care Administration

HSCA 4640 - Managed Care Concepts

HSCA 4650 - Long Term Care Management

HSCA 4901 - Health Science Practicum I

HSCA 4902 - Health Science Practicum II

HSCA 5650U - Seminar in Long Term Care Administration

HSCG 5500U - Survey of Gerontology

HSCG 5510U - Healthy Aging  
 HLPR 4200 - Interdisciplinary Health Professions Seminar  
 PSYC 3200 - Industrial/Organizational Psychology  
 Electives (3 hours)

#### **Public Health**

HSCP 3730 - Health Promotion Theory  
 HSCP 3740 - Health Promotion Methods  
 HSCP 3750 - Topics in Public Health  
 HSCP 4900 - Health Science Practicum  
 HSCP 5700U - Environmental Health Issues  
 HLPR 1200 - Multidisciplinary Skills in Health Professions  
 A minimum of 17 semester hours chosen from the following:  
 PEHM 2281 - Human Structure and Function I  
 PEHM 2282 - Human Structure and Function II  
 HSCP 3710 - Worksite Wellness and Safety  
 HSCP 3720 - Ethical Theories and Moral Issues in Public Health  
 HSCP 3770 - Health/Sexuality Education  
 HSCP 3780 - Health and Drug Education  
 HSCP 3790 - Health and Fitness Management  
 HSCP 4000 - Independent Study in Health Sciences  
 HSCA 4620 - Health Care Administration  
 HSCA 4630 - Health Information Systems  
 HSCA 4640 - Managed Care Concepts  
 HSCP 5550U - Nutrition  
 HSCG 5500U - Survey of Gerontology  
 HSCG 5510U - Healthy Aging  
 PSYC 3150 - Conflict and Stress  
 PSYC 3200 - Industrial/Organizational Psychology

Electives (9 hours)

#### **Athletic Training**

PEHM 2281 - Human Structure and Function I  
 PEHM 2282 - Human Structure and Function II  
 PEHM 2283 - Kinesiology  
 PEHM 3500 - Exercise Physiology  
 PEHM 3770/HSCP 3770 - Health and Human Sexuality Education  
 PEHM 3780/HSCP 3780 - Substance Abuse Education  
 PEHM 4400 - Fitness Theory and Application  
 PEAT 2100 - Prevention and Care of Sports Injuries  
 PEAT 3450 - Evaluation and Treatment of Lower Body Injuries  
 PEAT 3460 - Evaluation and Treatment of Upper Body Injuries  
 PEAT 4050 - Therapeutic Modalities in Rehabilitation  
 PEAT 4400 - Planning and Management of Athletic Training Programs and Facilities  
 PEAT 4480 - Seminar in Athletic Training  
 PEAT 5350U - Field Experience in Athletic Training - Training Room  
 PEAT 5360U - Field Experience in Athletic Training - Lab School  
 PEAT 5370U - Field Experience in Athletic Training: Clinic

**Total Semester Hours**

**123 hours**

#### **D. Regents' Test and Exit Exams**

**Pre-Physical Therapy**

<b>A. General Requirements</b> .....	<b>42 hours</b>
(Core Areas A (must take MATH 1113), B, C, D.2.A., and E)	
<b>Core Area F</b> .....	<b>18 hours</b>
PHYS 1111 - Physics I	
PHYS 1111L - Physics I Lab	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
CSCI 1050 - Computer Concepts and Applications	
HLPR 1100 - Health Care and Medical Terminology	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>24 hours</b>
HSCC 2110 - Health and Human Development	
HSCC 3000 - Health Issues and Resources	
HSCC 3010 - Health Communication Strategies	
HSCC 3120 - Health Policy and Law	
HSCC 3140 - Epidemiology	
HSCC 4010 - Health Planning and Marketing	
HLPR 2000 - Research in the Health Professions	
PHYS 1112 - Physics II	
PHYS 1112L - Physics II Lab	
<b>C. Professional Physical Therapy Program*</b> .....	<b>36 hours</b>
PHTH 5101U - Functional and Structural Aspects of Movement I	
PHTH 5131U - Foundations of Physical Therapy Assessment and Treatment I	
PHTH 5161U - Physical Therapy Practice Issues I	
PHTH 5181U - Clinical Practicum I	
PHTH 5202U - Functional and Structural Aspects of Movement II	
PHTH 5232U - Foundations of Physical Therapy Assessment and Treatment II	
PHTH 5262U - Physical Therapy Practice Issues II	
PHTH 5282U - Clinical Practicum II	
PHTH 5290U - Physical Therapy Case Management	

\* If admitted to the professional phase of the physical therapy program.

**Total Semester Hours**

**123 hours**

**D. Regents' Test and Exit Exams**

## MEDICAL TECHNOLOGY

### Faculty

Lester Hardegree, Department Head  
Anne Rodgers

### Accreditation Statement

The degree program in medical technology is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the period 1985-2004.

### General Information

The Department of Medical Technology offers the bachelor of science degree in medical technology (leading to a career in clinical laboratory science) and a post-baccalaureate certificate in medical technology. Medical technologists perform and/or supervise the testing of blood, urine, spinal fluid, and other body specimens. Applying a knowledge of chemistry, mathematics, and biology, the medical technologist uses both manual and automated techniques to provide diagnostic data to physicians.

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, serology) and are taught on campus. Clinical practicums are provided in the laboratories of St. Joseph's/Candler Health System, the South Atlantic Red Cross Blood Center, Memorial Medical Center, and Tuttle Army Health Clinic, all located in Savannah; Bulloch Memorial Hospital in Statesboro; and Effingham Hospital in Springfield. Upon completion of the program, graduates are eligible to take the certification examination of the Board of Registry for Medical Technologists of the American Society of Clinical Pathologists, and the clinical laboratory scientist examination of the National Certification Agency for Medical Laboratory Personnel.

## Special Programs

The post-baccalaureate certificate is awarded to those who have completed a degree in biology, chemistry, microbiology, or related sciences, and to transient students from other institutions affiliated with the program which award the bachelor of science degree. Applicants not wishing to earn a second baccalaureate degree must meet NAACLS academic prerequisites for medical technology. These students will receive a certificate upon completion of the professional course work.

## Admission Requirements

The professional phase of the medical technology curriculum begins in the fall semester every year. Students desiring acceptance to the program in medical technology should make application to the department before April 1 for the August class.

Currently enrolled Armstrong Atlantic State University students must also meet the requirements for admission to the medical technology program and apply separately to the department. 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 technology 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 Atlantic, students must be accepted into the university with regular admission status. In addition, students should complete an application to the medical technology department, and have official transcripts, any certification scores, and two letters of reference sent to the department head. (Score and reference forms are available from the department.) A select number of applicants meeting the minimum admission requirements will be invited for interviews with the departmental admission committee. All applicants will be notified by letter of their application status.

Minimum admission requirements are as follows:

- SAT of at least 830 with 400 or more in math and 430 or more in verbal
- Cumulative grade point average of 2.2 or more
- Completion of required chemistry and biology courses prior to the senior year
- Average of 2.25 or better in science courses (biology and chemistry), and no more than one such course with a grade of D
- Satisfactory completion of Regents' Test

## Special Requirements

**Current Course Work.** Per NAACLS requirement, all applicants must have taken the organic or biochemistry course and the microbiology course within the past seven years. Updating course work can be done by completing (with a grade of C or better) the appropriate course, or by passing a challenge examination.

**Health and Insurance.** All students accepted into the academic program are required to submit complete health history forms, evidence of health insurance, and evidence of liability (malpractice) insurance prior to participation in clinical experiences.

**Transportation.** Students are responsible for their own transportation to and from the clinical sites and are required to adhere to arranged hospital time schedules. Current requirements may be found in the latest medical technology application brochure.

## Progress Requirements

Students must earn a C or better in each medical technology course. A student may repeat a single medical technology 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 technology course, or who fail to earn a C in a subsequent medical technology 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 technology degree program.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

<b>A. General Requirements (Core Areas A, B, C, D.2.A., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 1107 - Principles of Biology I	
CHEM 1211 - Principles of Chemistry I*	
CHEM 1212 - Principles of Chemistry II*	
CHEM 2101 - Organic Chemistry I	
One course from the following electives:	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
Other approved courses (e.g., biology, chemistry, computer science)	
<i>*If taken in area D, substitute elective from area F.</i>	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>52 hours</b>
MEDT 3000 - Introduction to Medical Laboratory Science	
MEDT 3001 - Introduction to Medical Laboratory Methods	
MEDT 3100 - Urinalysis and Body Fluids	
MEDT 3200 - Clinical Microbiology	
MEDT 3300 - Clinical Hematology and Hemostasis	
MEDT 3400 - Clinical Immunohematology	
MEDT 3501 - Clinical Chemistry I	
MEDT 3502 - Clinical Chemistry II	
MEDT 3600 - Clinical Instrumentation	
MEDT 3700 - Clinical Immunoserology	
MEDT 3800 - Clinical Parasitology	
MEDT 3900 - Clinical Mycology and Virology	
MEDT 4110 - Phlebotomy Practicum	
MEDT 4210 - Clinical Microbiology Practicum	
MEDT 4310 - Clinical Hematology Practicum	
MEDT 4410 - Clinical Immunohematology Practicum	
MEDT 4510 - Clinical Chemistry Practicum	
MEDT 4600 - Senior Seminar	
MEDT 4610 - Urinalysis Practicum	
MEDT 4710 - Clinical Immunoserology Practicum	

MEDT 4810 - Special Topics Practicum  
 MEDT 4900 - Laboratory Management and Education

**C. Related Field Courses** ..... 8 hours

BIOL 2010 - Microbiology  
 CHEM 1211L - Principles of Chemistry Lab I\*  
 CHEM 1212L - Principles of Chemistry Lab II\*  
 HLPR 2000 - Research in the Health Professions

\* *Lab credit from area F. If completed in area D, substitute courses approved by department head.*

**Total Semester Hours** ..... 123 hours

**D. Regents' Test and Exit Exam**

## NURSING

### Faculty

Sue Young, Department Head and Graduate Nursing Program Coordinator	
Carole Massey, Undergraduate Nursing Program Coordinator	
Marilyn Buck	Bonnie Neuman
Eva Caldwell	Catharine Powell
Sandra Clark	Ethel Pruden
Sara Connor	Nancy Reilly
Marian Conway	James Repella
Deanna Cross	Rosalyn Roesel
Barbara Dunn	Elaine Silcox
Marcella Hart	Camille Stern
Carola Keller	Helen Taggart
Mary Miller	Jane Williamson

### Accreditation Statement

The program in nursing is approved by the Georgia Board of Nursing and is fully accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, New York, NY 10006, Phone 212/363-5555, ext. 153.

### General Information

The baccalaureate nursing program offers entering freshmen and transfer students the opportunity to earn a bachelor of science in nursing (BSN) degree. The American Nurses Association (ANA) and the National League for Nursing (NLN) have adopted a position statement calling for the baccalaureate degree in nursing as the academic preparation for professional nursing practice. 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).

### Special Programs

**RN Options Program — Post-Licensure.** This innovative program is designed for registered nurses who wish to pursue the bachelor's and/or master's degrees in nursing. Students take a common sequence of courses before they select their degree option. If students select the master



of science option, the BSN degree is awarded concurrently upon completion of graduate degree requirements. Graduate track options include adult clinical nurse specialist, adult nurse practitioner, or nursing administration. The program of study is designed to meet the needs of the registered nurse whose dedication to life-long learning demands the attainment of formal advanced education. This preparation is provided by experienced, dedicated faculty in a scholarly atmosphere permitting students to interact regularly with leaders in nursing. Full and part-time study is available.

**The Georgia RN-BSN Articulation Model: Advanced Placement through Validation of Previous Learning.** Armstrong Atlantic State University participates in the Georgia RN-BSN Articulation Model for RNs. Twenty-nine hours of previously earned nursing credit will be applied toward the baccalaureate degree after successful completion of six RN Options credit hours. Credit is awarded based on the fulfillment of applicable requirements as listed below:

**All Associate Degree Nursing (ADN) and Diploma Graduates of Nursing Programs in Georgia or NLN Accredited Programs in USA Outside Georgia:**

Fewer than four years after graduation with more than

1000 clinical practice hours in previous three years ..... *no testing required*

Four or more years after graduation with more than

1000 clinical practice hours in previous three years ..... *written validation  
of clinical practice  
required (no testing)*

Fewer than four years after graduation with fewer than

1000 clinical practice hours in previous three years ..... *NMP II test required*

**All ADN and Diploma Graduates of Non-NLNAC Accredited Programs Outside Georgia:**

NLN Mobility Profile (NMP) II Test is required. The NMP II consists of three exams that validate twenty-nine hours of general nursing knowledge in the care of the adult client, the childbearing client and child, and the client with mental disorders. The exams are administered every semester. NMP II information and applications are available in the departmental office.

## 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 Atlantic State University prior to making application to the nursing major. Students also must meet the admission requirements of the baccalaureate nursing program to be eligible for admission to the nursing major. Admission decisions are made by the nursing faculty.

It should be noted that the pool of applicants has increased in quality and quantity, and that admission to the nursing major is competitive. Minimum requirements to be admitted include a grade of C or better in each science course, and a minimum adjusted grade point average of 2.5 in all prerequisite course work attempted. However, meeting minimum requirements does not guarantee admission to the nursing major. Those applicants who, in the judgement of the nursing faculty, present the strongest academic record and show the most promise of success in the nursing major will be accepted. In making comparisons between applicants, the nursing faculty evaluates the academic record of each applicant thoroughly, including an evaluation of science grades, adjusted grade point average, number of hours completed at Armstrong Atlantic, and Regents' Test status. Students who are licensed in another health field must show a current license for validation. Students are expected to comply with the core performance standards for nursing listed on the application form.

Transfer applicants and those with degrees in other fields must meet the criteria established for admission to the nursing major. Transfer credit will be awarded depending upon equivalency of courses. Those decisions will be made by the nursing faculty using actual syllabi, course outlines, descriptions, and the like, supplied by the transfer student.

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 will be admitted to the nursing major during the fall semester of their sophomore year. Students who are

not admitted may reapply for the next year. Complete information regarding admission procedures is available in the Department of Nursing.

See also "Special Requirements" below.

**RN Options Program.** Students seeking admittance to this program must obtain regular admission to Armstrong Atlantic State University. Also required are the following items:

- Completed RN Options application form
- Grade of C or better in each science course
- Minimum adjusted grade point average of 2.5 on all prerequisite course work attempted
- Current professional Georgia nursing license

Admitted students must meet specific criteria and complete prerequisite courses before they are eligible to enroll in nursing major courses. The BSN Option requires completion of RN Options Courses, submission of a letter of intent at least one semester before entering the BSN Option, and completion of nursing sequence within four years of enrollment in the RN Options courses.

## 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, nursing 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, evidence of health insurance, and evidence of liability (malpractice) insurance prior to fall semester.

**CPR.** Admitted students must submit proof of CPR certification prior to fall semester.

## 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 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.

The following must be maintained to continue in the nursing program:

- Grades of C or better in each science course (see College of Health Professions policy regarding repeat of science courses)
- Grades of C or better in each nursing course
- Overall grade point average of 2.0
- On an annual, up-to-date basis: health history; tuberculin test or proof of negative chest x-ray; immunizations; CPR certification; liability insurance; health insurance. (Additional institutional requirements may exist or may change over time, depending on clinical agency policy.)

Students earning a grade lower than C in a nursing course must apply for readmission to the nursing major. If readmitted, students may repeat the course at its next offering, on a space available basis. A repeated course may be taken concurrently with a nonsequential course. No more than one nursing course may be repeated.

All students must pass the Regents' Test prior to entering the last semester before graduation, and senior nursing students are required to take a written 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.

## Readmission Requirements

Students seeking readmission must complete the readmission application for both the university and the nursing major. Students are required to meet admission and curriculum requirements in effect at the time of readmission. Readmission decisions are made by the nursing faculty, based upon space available and recommendation by the admission and retention progression committee. Prior to the semester of re-entry, readmitted students must submit a current health history, proof of a negative tuberculin test or chest x-ray, immunization record, CPR certification, and evidence of health and liability insurance.

### PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING — PRE-LICENSURE STUDENTS

<b>A. General Requirements (Core Areas, A, B, C, D. 2.B., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2210 - Microorganisms and Disease	
Two courses selected from:	
PSYC 1101 - General Psychology	
PSYC 2950 - Developmental Psychology	
SOC 1101 - Introductory Sociology	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>57 hours</b>
NURS 2241 - Nursing and Health Promotion I	
NURS 2260 - Health Policy in Nursing Practice	
NURS 3242 - Nursing and Health Promotion II	
NURS 3301 - Nursing Skills I	
NURS 3302 - Nursing Skills II	
NURS 3320 - Health Assessment of the Well Individual	
NURS 3330 - Leadership in Nursing Care	
NURS 3340 - Family Health Promotion	
NURS 3350 - Health Promotion of Women and Children	
NURS 3360 - Health Maintenance and Rehabilitation	
NURS 3550 - Pathophysiology	
NURS 4420 - Nursing and Health Restoration	
NURS 4430 - Health Restoration in Mental Health	
NURS 4440 - Population Focused Nursing	
NURS 4450 - Professional Nursing Practicum	
NURS 4460 - Professional Nursing Seminar	
<b>C. Related Field Courses</b> .....	<b>7 hours</b>
HLPR 1200 - Multidisciplinary Skills in Health Professions	
HLPR 2000 - Introduction to Research in the Health Professions	
HLPR 4200 - Interdisciplinary Health Professions Seminar	

**Total Semester Hours**

**127 hours**

**D. Regents' Test and Exit Exam**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING, RN OPTIONS PROGRAM — POST-LICENSURE STUDENTS**

<b>A. General Requirements (Core Areas, A, B, C, D.2.B., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2210 - Microorganisms and Disease	
Two courses selected from:	
PSYC 1101 - General Psychology	
PSYC 2950 - Developmental Psychology	
SOC1 1101 - Introductory Sociology	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>57 hours</b>
NURS 3000 - Professional Role Transitions: Socialization	
NURS 3150 - Professional Role Transitions: Communication	
NURS 3301 - Nursing Skills I*	
NURS 3302 - Nursing Skills II*	
NURS 3300 - Health Assessment for the Promotion of Wellness	
NURS 3310 - Nursing and Health Promotion Throughout the Lifespan	
NURS 3450 - Health Care and Families	
NURS 3350 - Health Promotion of Women and Children*	
NURS 3360 - Health Maintenance and Rehabilitation*	
NURS 3550 - Pathophysiology	
NURS 4420 - Nursing and Health Restoration*	
NURS 4430 - Health Restoration in Mental Health*	
NURS 4470 - Nursing and Population Focused Practice	
NURS 4480 - Professional Nursing Practicum	
<b>C. Related Field Courses</b> .....	<b>7 hours</b>
HLPR 1200 - Multidisciplinary Skills in Health Professions*	
HLPR 2000 - Introduction to Research in the Health Professions	
HLPR 4200 - Interdisciplinary Health Professions Seminar	

**Total Semester Hours** **127 hours**

*\* In accordance with the Georgia RN-BSN Articulation Model (Advanced Placement Validation of Previous Learning), credit will be awarded after successful completion of six (6) R.N. Options credit hours. These courses are identified with an asterisk.*

**D. Regents' Test and Exit Exam**

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**PHYSICAL THERAPY**

**Faculty**

David Lake, Department Head	
Anne Thompson, Academic Coordinator of Clinical Education	
Jody Andersen	Andi Beth Mincer
Jennifer Lander	Debbie Tucker

**Accreditation Statement**

The Department of Physical Therapy is accredited by the Commission on Accreditation of Physical Therapy Education. The program received initial accreditation in spring of 1997.

**General Information**

Students enrolled in the Department of Physical Therapy graduate with the master of science degree, but may also be awarded simultaneously a bachelor of science in physical therapy.

Students may enter the program either as **graduate** students or senior **undergraduates** (see below).

Based upon scientific knowledge and principles, professional practitioners evaluate, diagnose, treat, and instruct people of all ages with movement disorders. Evaluation, diagnosis, and treatment planning require the ability to analyze a large number of factors, determine the most important, and develop a treatment plan based on that analysis. Physical therapists must effectively communicate their findings to clients, clients' families, other health care providers, and agencies that reimburse clients or physical therapists for services. Physical therapists must provide care in a compassionate, competent, legal, and ethical manner. Physical therapists must communicate plans for the prevention of injuries and disabilities, and work cooperatively and respectfully with both clients and other health care professionals.

All course work in this program is clinical case-centered with the emphasis on problem identification and problem solving. This allows students to integrate pathophysiology, evaluation methods, treatment approaches, and psychosocial principles into each case. Working in small groups, students are encouraged to seek new solutions to clinical problems, propose new treatment approaches, and develop teamwork and leadership skills. Clinical experiences are designed to foster competency and professionalism.

**Graduates.** Students who are admitted to the physical therapy program as graduate students will receive the master of science degree upon graduation. Sixty-five to eighty percent of students who are admitted to the program in physical therapy have already completed an undergraduate degree.

Students must complete the entire program for the master of science degree before sitting for the National Physical Therapy Examination (NPTE) and qualifying for licensure.

**Undergraduates.** Students admitted to the physical therapy program as undergraduates must meet all core and program requirements for an undergraduate degree at Armstrong Atlantic State University, and achieve certain scores on the graduate record examination (GRE) prior to admission to the program. Upon completion of the first two semesters of the physical therapy professional courses (PTH prefix), students will be admitted into the graduate school. Upon completion of the entire program, students will be awarded the bachelor of science in physical therapy and the master of science degrees. Armstrong Atlantic State University does not award a separate undergraduate degree in physical therapy, and the bachelor of science degree is awarded only to students who have completed the entire master of science degree program.

Enrollment in one of the three pre-physical therapy options allows undergraduate students to choose the most appropriate track for their particular needs, but does not guarantee admission to the physical therapy major.

**Pre-Physical Therapy Track in the Biology Major.** Students take university and biology core courses as well as courses meeting prerequisites of the physical therapy program. If accepted into the physical therapy program, students in this track complete the first two semesters of work in physical therapy as part of the requirements for a bachelor of science degree in biology. If not accepted, students may complete their senior year in one of the other biology tracks and graduate with the bachelor of science degree in biology. This track is recommended for students whose interests lie in the basic sciences.

**Pre-Physical Therapy Track in the Health Science Major.** Students take university and health science core courses as well as prerequisites for physical therapy. If accepted into the physical therapy program, students complete the first two semesters of work in the physical therapy program as part of the requirements for a bachelor of health science degree. If not accepted, students may complete their senior year in one of the other tracks in health science and graduate with the bachelor of health science degree. This track is recommended for students whose interests lie in health promotion or health administration.

**Pre-Physical Therapy Major in the Department of Physical Therapy.** Participants in this major take the university and physical therapy core courses as well as prerequisite and elective courses required by the physical therapy program. If accepted into the physical therapy program, students complete the first two semesters of work in the physical therapy program as part of the requirements for a bachelor of science degree in physical therapy. Note, however, that the bachelor of science degree is not awarded until completion of requirements for the master of science degree.

If not accepted into the physical therapy program, students must transfer to another major in a different department. This option is recommended only for non-degreed transfer students whose academic records do not lend themselves to either of the other two options.

## Admission Requirements

See "Limits on Admission" in the College of Health Professions section of this catalog. Students must be admitted to Armstrong Atlantic State University prior to enrolling in the physical therapy program. Students must meet departmental admission requirements for the physical therapy major.

Decisions on admission to the physical therapy program are made by the physical therapy faculty. Enrollment as a pre-physical therapy major at Armstrong Atlantic State University does not guarantee admission to the physical therapy major. Meeting the minimum criteria for application does not guarantee admission to the physical therapy major. The pool of applicants for the physical therapy program includes many highly qualified applicants, and the number of available positions is limited. Physical therapy faculty will evaluate candidates based on evidence that they possess knowledge and understanding of the following:

- effective oral and written communication skills
- physical sciences
- functional and structural characteristics of all human body systems
- individual and group human behavior
- political process at different levels
- the scope of physical therapy practice
- computers and computer software applications
- basic statistics
- basic research methodology and research design

Consideration will also be given to student involvement in extracurricular activities and community service.

Minimum satisfaction of application criteria consists of the following:

- completion of two terms of basic chemistry with labs and two terms of basic physics with labs (must include mechanics, electricity, magnetism, and light)
- two terms of anatomy and physiology with labs, completed in a basic science department
- minimum grade point average of 2.75 on courses in science (two in anatomy and physiology, two in general chemistry, two in general physics). No science grade of D or F is acceptable, and no more than one science course may be repeated.
- Graduate Record Exam (GRE) scores of 450 verbal and 450 quantitative at the time of application for regular admission to the School of Graduate Studies (scores of 400 verbal and 400 quantitative required for provisional admission)

Applicants must have volunteer or work experience in a physical therapy setting. Exposure to several different physical therapy settings is recommended.

Applicants must obtain the most recent information and application packets from the Department of Physical Therapy or the School of Graduate Studies. The information packets are updated annually to include any changes in the program. Information in the packet supersedes that contained in this catalog. New information packets are available in April of the year preceding the application deadline (for example: for admission in 2001, the information packets are available in April, 2000). The application packets contain both physical therapy and university admission applications. Deadline for application is January 15 of every year, for matriculation in the fall semester of that year.

Transfer applicants wishing to complete a bachelor's degree and pre-physical therapy majors at Armstrong Atlantic State University must complete the core curriculum (see requirements elsewhere in this catalog) and pass the Regents' Test before beginning physical therapy courses.

Transfer credit for prerequisite courses may be accepted for required core courses if approved by the physical therapy faculty, the Armstrong Atlantic department in which the course is taught, and the office of the registrar.

After admission to the physical therapy program, students must submit a formal acceptance and a non-refundable \$250.00 deposit to retain their places in the physical therapy program. These deposits are applied to the students' first semester matriculation fees.

## Special Requirements

**Legal.** Graduation from an accredited professional physical therapy education program allows students to take the National Physical Therapy Examination (NPTE). Passing this exam is required for licensure in any jurisdiction within the United States and its territories. The Georgia Board of Physical Therapy has the authority to refuse or revoke licensure 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 any state, federal, or comparable jurisdictional law including laws relating to controlled substances or dangerous drugs. This applies to any conviction or pleas of *nolo contendere* entered to charges in the courts of this state, any other state, territory, or country, or in the federal courts of the United States.

**Health and Insurance.** All students in the physical therapy program are required to undergo physical exams, keep immunizations current, and provide evidence of health and liability (malpractice) insurance.

**CPR.** Admitted students must provide proof of certification in adult CPR and first aid.

## Progress Requirements

Students must complete the physical therapy program within four consecutive years from the date of their initial admission to the physical therapy major. Students who do not complete the program in the required period of time may apply for readmission. Readmission decisions are made on a space-available basis. Former students must meet the current criteria for admission and be evaluated along with the other applicants to the program.

Students must be continuously enrolled in the program through the entire seven-semester sequence of courses. Leave may be granted but will require that the student "drop back" to the next graduating class. Students may obtain faculty permission to "drop back" for academic, medical, or personal reasons. Students may re-enroll in PPTH courses only if faculty members have determined that space is available.

Students must earn a B or better in all PPTH courses. If lower than the required grade is earned in a PPTH course, that course must be repeated. Only one course can be repeated, and that course can be repeated only once. A course can be repeated only when it is normally offered again in the curricular sequence. No additional courses can be taken in the physical therapy curriculum until the course deficiency is satisfied. Thus, failure to pass a course will require the student to "drop back" to the next graduating class.

Failure to earn a grade of B or better in two or more PPTH courses will result in dismissal from the program. Failure to earn a grade of B or better on the second attempt of a PPTH course will also result in dismissal from the program. Students dismissed from the program because of inability to meet grade requirements are not eligible to apply for readmission.

## Readmission Requirements

Students must complete readmission applications for both Armstrong Atlantic State University and the physical therapy major, and will be required to meet admission and curriculum requirements in effect at the time of application for readmission. Readmission decisions will be based upon space available and recommendation of department faculty. Students dismissed from the physical therapy program for any reason whatever are not eligible to apply for readmission.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PHYSICAL THERAPY (Pre-Physical Therapy Track)

<b>A. General Requirements (Core Areas, A, B, C, D.2.A., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
PHYS 1111/1111L - Introductory Physics I	
PHYS 1112/1112L - Introductory Physics II	
Elective credits from areas A-E	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Related Field Courses</b> .....	<b>5-8 hours</b>
PSYC 1101 - General Psychology †	
HLPR 2000 - Introduction to Health Care	
CSCI 1050 - Introduction to Computer Concepts and Applications	
† <i>If not taken in area E</i>	
<b>C. Field Area Electives</b> .....	<b>16-19 hours</b>
Eight (8) semester hours (maximum) of natural/social science electives at 1000-2000 level. Must include PHYS 1111/1112 with labs, CHEM 1211/1212 with labs, and/or BIOL 2081/2082 with labs if not taken in core areas D or F.	
Eight (8) semester hours (minimum) of natural/social science electives at 3000-4000 level.	
<b>D. Professional Physical Therapy Program*</b> .....	<b>36 hours</b>
PHTH 5101U - Functional and Structural Aspects of Movement I	
PHTH 5131U - Foundations of Physical Therapy Assessment and Treatment I	
PHTH 5161U - Physical Therapy Practice Issues I	
PHTH 5181U - Clinical Practicum I	
PHTH 5202U - Functional and Structural Aspects of Movement II	
PHTH 5232U - Foundations of Physical Therapy Assessment and Treatment II	
PHTH 5262U - Physical Therapy Practice Issues II	
PHTH 5282U - Clinical Practicum II	
PHTH 5290U - Physical Therapy Case Management	
* <i>Taken only after acceptance to the physical therapy professional program</i>	

**Total Semester Hours** **123 hours**

### E. Regents' Test and Exit Exams

All undergraduate applicants to the physical therapy program must satisfy all Regents' requirements before matriculation in the professional curriculum. All students completing the bachelor of science degree as part of the professional curriculum must take the academic profile examination before receiving the bachelor's degree. To be eligible to take the National Physical Therapy Examination (NPTE), students must complete the master of science degree in physical therapy. The bachelor of science degree is only a preparation for the professional program.



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## RADIOLOGIC SCIENCES

### Faculty

Sharyn Gibson, Department Head  
Elwin Tilson, Clinical Coordinator  
Mary Lou DeMarco, Program Director, Radiation Therapy  
Deborah Lamb  
Gloria Strickland

### Accreditation Statement

The radiologic technology program is accredited by the Joint Review Committee on Education in Radiologic Technology for the period 1984-1999.

### General Information

The Department of Radiologic Sciences offers a bachelor of science degree in radiologic technologies, with tracks in radiation therapy and radiography. Both are highly technological health care professions with significant patient contact. Radiation therapists work with physicians to plan and deliver radiation therapy treatments, with a primary responsibility for accurate evaluation and effective communication with patients. Radiographers use radiation, magnetism, and computers in the production of diagnostic medical images. Radiography is also the traditional gateway into ultrasound and nuclear medicine. Advanced-level practitioners perform in specialized areas such as mammography, MRI, CT, cardiovascular intervention, dosimetry, education, and quality management. The department also offers a post-baccalaureate certificate program.

The department provides a comprehensive education to ensure that students will enter the radiologic professions as highly competent, caring practitioners, dedicated to teamwork, research, community service, professionalism, and life-long learning. Traditional teaching methods and innovative instructional technology are used to encourage students to develop critical thinking and problem-solving skills.

### Admission Requirements

Baccalaureate degree programs begin in the summer of each year; however, RTs pursuing the baccalaureate degree or post-baccalaureate certification may begin any semester. Department faculty will advise anyone interested in majoring in radiologic sciences. Admission to the professional component of the baccalaureate degree program is competitive. Admission to the bridge program for registered radiologic technologists is *not* competitive. Detailed procedures and guidelines for program admission should be obtained by contacting the Department of Radiological Sciences. The following guidelines are provided for general information only.

**Non-RTs.** Must have regular admission to Armstrong Atlantic and a grade point average of 2.3 or higher for all college work.

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

- Fifty semester hours of degree requirements
- Human Anatomy and Physiology I and II or equivalent
- Lab science sequence (chemistry or physics)
- CPC requirements
- Regents' Test

**Baccalaureate Degree Program (Bridge) for RTs.** Requirements are regular admission to Armstrong Atlantic, grade point average of 2.3 or higher for all college work, and certification in radiography (if not yet certified, must become certified prior to the end of the first semester at Armstrong Atlantic). Before beginning any of the professional courses, the following must be successfully completed:

- At least 45 semester hours of degree requirements
- Anatomy and Physiology I and II or equivalent
- CPC requirements
- Two college English courses and one college algebra course

**Post-Baccalaureate Certificate Program in Radiation Therapy.** Applicants must have regular admission to Armstrong Atlantic, a grade point average of 2.3 or higher for all college work, and a baccalaureate degree in radiologic technology with an emphasis in radiography. If not yet certified in radiography, students must become certified before the end of the first semester at Armstrong Atlantic.

After admission to the Department of Radiologic Sciences, students must pay a \$50.00 non-refundable deposit to reserve a seat in the program. Deposits are applied to students' first semester matriculation fees.

## Special Requirements

**Health and Insurance.** Prior to matriculation in clinical education courses, students are required to submit evidence of liability (malpractice) insurance, health insurance, and a physical examination. Specific information regarding these requirements will be distributed to admitted students.

**CPR.** Students must show proof of certification in CPR before participating in clinical experiences.

**ACLS Certification.** Students are required to earn this during the last radiography clinical education course.

**Transportation.** Students are responsible for providing their own transportation to the hospitals for clinical education courses.

## Readmission Requirements

Students who have been admitted to and have enrolled in the programs in radiologic sciences, but who have either withdrawn or been dismissed without prejudice from the program, may apply for readmission to the program only if they have a cumulative college grade point average of 2.0 at the time they wish to reenter. Readmission decisions will be based upon space availability and recommendation by the radiologic sciences admissions committee.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGIES

<b>A. General Requirements (Core Areas A, B, C, D.2.B., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II .....	
MATH 1113 - Pre-Calculus	
Approved Elective	
One of the following (if chemistry sequence completed in area D):	
PHSC 1211/1211L - Physical Environment and Lab	
PHYS 1111/1111L - Introductory Physics I and Lab I	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>36 hours</b>
HLPR 2000 - Research in Health Professions	
BIOL 2215 - Human Physiology and Disease	
HLPR 4200 - Interdisciplinary Health Professions Seminar	
RADS 3000 - Introduction to Radiologic Sciences	
RADS 3050 - Patient Care and Interactions	
RADS 3060 - Principles of Image Formation and Evaluation	
RADS 3071 - Radiographic Procedures I	
RADS 3090 - Introduction to Radiation Physics	
RADS 3150 - Radiobiology and Radiation Protection	
RADS 4410 - Cross Sectional Anatomy	
RADS 4430 - Professional Practice Seminar	
RADS 4450 - Radiology Management & Leadership	

<b>Radiography Track .....</b>	<b>30 hours</b>
RADS 3072 - Radiographic Procedures II	
RADS 3073 - Radiographic Procedures III	
RADS 3161 - Clinical Education I	
RADS 3162 - Clinical Education II	
RADS 4050 - Quality Management in Radiography	
RADS 4090 - Radiographic Physics	
RADS 4110 - Advanced Imaging	
RADS 4163 - Clinical Education III	
RADS 4164 - Clinical Education IV	
RADS 4165 - Clinical Education V	

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**Total Semester Hours for Radiography Track** **129 hours**

<b>Radiation Therapy Track .....</b>	<b>30 hours</b>
RADS 3190 - Principles of Radiation Therapy	
RADS 3301 - Clinical Education I	
RADS 3302 - Clinical Education II	
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	

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**Total Semester Hours for Radiation Therapy Track** **126 hours**

### C. Regents' Test and Exit Exam

## CURRICULUM FOR THE POST-BACCALAUREATE CERTIFICATE PROGRAM

### Professional Courses:

RADS 3180 - Foundations of Radiation Therapy
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 3302 - Clinical Education II
RADS 4303 - Clinical Education III
RADS 4304 - Clinical Education IV
RADS 4305 - Clinical Education V

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**Total Semester Hours** **31 hours**

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## RESPIRATORY THERAPY

### Faculty

Ross Bowers, Department Head  
William Smith, Director of Clinical Education

### Accreditation Statement

The department is accredited by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP) for the period 1997-2002.

## General Information

The Department of Respiratory Therapy offers a four-year program leading to the bachelor of science degree in respiratory therapy, as well as a career-ladder program for those already registered as respiratory therapists to obtain their undergraduate degree. 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 shortly after graduation. Graduates who pass this exam will earn the entry level credential "Certified Respiratory Therapist" (CRT), 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 State Board of Medical Examiners.

## Special Programs

**RRT 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.

## Admission Requirements

**Baccalaureate Degree Program.** See "Limits on Admission" in the College of Health Professions section of this catalog. Admission to Armstrong Atlantic 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 April 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. Candidates who meet the academic criteria for admission will be interviewed by the departmental admissions committee. Meeting admission criteria does not constitute acceptance into the program. Our maximum enrollment ceiling is 16 students. Minimum admission criteria include completion of all core requirements for the major, an adjusted grade point average of 2.40, no more than one grade less than C in courses related to area D or F of the semester core, and successful completion of the Regents' Test.

**RRT Career-Ladder.** Candidates for the RRT career-ladder 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 candidate is responsible for developing a professional portfolio as part of the application process. 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 current Georgia license, and documentation of specialty credentials and in-house certifications.

## Special Requirements

**Legal.** The Georgia Board of Medical Examiners 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. Graduates 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 practicums.

## Progress Requirements

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, which includes courses without a RESP prefix. 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 are required to pass three nationally standardized exit exams administered during the last year. Students who do not pass the exit exams will not receive a certificate of completion from the program.

## Readmission Requirements

Students must complete readmission applications for Armstrong Atlantic State University and the respiratory therapy major. Student 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.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RESPIRATORY THERAPY

<b>A. General Requirements (Core Areas A, B, C, D.2.B., and E)</b> .....	<b>42 hours</b>
<b>Core Area F</b> .....	<b>18 hours</b>
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2210 - Microorganisms and Disease	
PHYS 1111 - Introductory Physics I	
or PHSC 1211 - Physical Environment	
Approved electives	
<b>Physical Education</b> .....	<b>3 hours</b>

**B. Major Field Courses ..... 52 hours**

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 3310 - Basic Ventilatory Support  
 RESP 3320 - Subacute/Home Care  
 RESP 3353C - Clinical Practicum III  
 RESP 4110 - Advanced Ventilatory Support  
 RESP 4120 - Cardiopulmonary Critical Care  
 RESP 4130 - Perinatal Care  
 RESP 4154C - Clinical Practicum IV  
 RESP 4210 - Cardiopulmonary Medicine  
 RESP 4220 - Research in Respiratory Care  
 RESP 4230 - Seminar in Respiratory Care  
 RESP 4255C - Clinical Practicum V

**C. Related Field Courses ..... 14 hours**

BIOL 3400 - Human Physiology  
 HLPR 1100 - Introduction to Health Care and Medical Terminology  
 HLPR 2000 - Introduction to Research in the Health Professions  
 HSCA 4610 - Health Care Economics  
 HSCA 4640 - Managed Care Concepts

**Total Semester Hours****129 hours****D. Regents' Test and Exit Exams**

# 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 hour 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 5000-5999U 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. (Graduating seniors may enroll by permission only.)

Courses numbered 7000-8999 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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\*Courses at Savannah State University - various prefixes.



**AASU – University Studies****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.

**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 behaviour, 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 BEHAVIOUR AND ECOLOGY****3-0-3**

Prerequisite: permission of instructor or ANTH 1102

Social behaviour and ecology of prosimians, monkeys, and apes and the implications for the evolution of human social behaviour. Topics include primate origins and evolutionary trends, survey of living primates, social organization, ecology and social behaviour, and models for the evolution of human behaviour.

**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 3800 INTRODUCTION TO PUBLIC HISTORY****3-0-3**

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. Crosslisted as HIST 3800 and PBHS 3800.

**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. Cross listed as HIST 3820 and PUBL 3820.

**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 4050 SOCIOBIOLOGY OF HUMAN BEHAVIOUR**

3-0-3

Prerequisite: ANTH 1102

Examination of human social behaviour 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.

**ANTH 5700U AMERICAN MATERIAL CULTURE**

2-1-3

Prerequisite: permission of instructor or department

Introduction to the study of North American and Caribbean culture, ordinarily focused on the eighteenth and nineteenth century. Architecture, cemeteries, landscape, dress, music, art, foodways, status, gender, and ethnic identifiers may provide examples. Crosslisted as HIST 5700U and PBHS 5700U.

**ANTH 5720U HISTORICAL ARCHAEOLOGY**

3-0-3

Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820

The historical archaeology of the new world from the first arrival of Europeans and Africans to circa 1800. Attention focused on the south and the Caribbean, but other frontier contexts may also be included. Emphasis given to anthropological archaeology as a perspective for the writing of history and as a sub-field within public history. Crosslisted as HIST 5720U and PBHS 5720U.

**ANTH 5730U FIELDWORK IN HISTORICAL ARCHAEOLOGY**

0-12-6

Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820

Application of archaeological methods to a specific field project. Excavation techniques, surveying and map making, data collecting and recording, and the interpretation of archaeological data. May be repeated for credit. Crosslisted as HIST 5730U and PBHS 5730U.

**ARTS – Art****ARTS 1010 DRAWING I**

2-4-3

Introduction to the techniques, materials and principles of drawing.

**ARTS 1011 DRAWING II**

2-4-3

Techniques, materials and principles of drawing.

**ARTS 1120 TWO-DIMENSIONAL DESIGN**

2-4-3

The fundamentals of two dimensional design introduced through projects in a variety of media.

- ARTS 1030 THREE-DIMENSIONAL DESIGN** 2-4-3  
An investigation of three-dimensional forms and space using materials and methods.
- ARTS 1100 ART APPRECIATION** 3-0-3  
Artistic theories, styles, media, and techniques as they relate to the visual arts. Not recommended for art majors.
- ARTS 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 MUSC 1270.
- ARTS 2011 PAINTING I** 2-4-3  
Prerequisite: ARTS 1010 and ARTS 1020  
Acrylic painting from observed and secondary sources.
- ARTS 2012 PAINTING II** 2-4-3  
Prerequisite: ARTS 2011  
Continuation of Painting I with increased emphasis on student selected problems.
- ARTS 2040 INTRODUCTION TO PHOTOGRAPHY** 2-4-3  
Black and white photographic aesthetics, processes. Functions of 35mm camera and processing of film and printing.
- ARTS 2150 THE COMPUTER IN ART** 2-4-3  
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** 2-4-3  
Basic craft processes and techniques with emphasis on fibers and metalwork.
- ARTS 2710 ART HISTORY I** 3-0-3  
Visual arts from prehistory to the baroque period.
- ARTS 2720 ART HISTORY II** 3-0-3  
Visual arts from the baroque period to World War II.
- ARTS 3030 OIL PAINTING** 2-4-3  
Prerequisite: ARTS 2011  
Special qualities and techniques of oil painting.
- ARTS 3040 WATERCOLOR PAINTING** 2-4-3  
Prerequisite: ARTS 1010  
Exploration of traditional and experimental approaches to transparent watercolor.
- ARTS 3110 GRAPHIC DESIGN** 2-4-3  
Prerequisite: ARTS 1020 or permission of instructor or department  
Fundamentals of visual graphic communication as related to modern advertising techniques. Emphasis on design, layout, typography, and reproduction.
- ARTS 3130 DRAWING III** 2-4-3  
Prerequisite: ARTS 1010  
Continuation of Drawing II emphasizing complex problems in concept design and media.

- ARTS 3140 INTERMEDIATE PHOTOGRAPHY** 2-4-3  
Prerequisite: ARTS 2040  
Advanced study of the aesthetics and processes in black and white photography.
- ARTS 3150 COLOR PHOTOGRAPHY** 2-4-3  
Prerequisite: ARTS 2040  
Aesthetics and print processes of color photography.
- ARTS 3160 HAND-COLORED AND MANIPULATED SILVER PRINT** 2-4-3  
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** 2-4-3  
Prerequisite: ARTS 2040  
Exploration of experimental techniques, i.e., solarization, mordancage, negative prints, photo-grams, double exposures, and others. Non-silver processes, cyanotype, van dyke brown and others.
- ARTS 3200 ART AND THE CHILD** 2-4-3  
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 3300 CERAMICS I** 2-4-3  
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** 2-4-3  
Techniques of pottery utilizing the potter's wheel.
- ARTS 3330 CERAMIC SCULPTURE** 2-4-3  
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** 2-4-3  
Prerequisite: ARTS 3300  
Raw materials and chemicals used in glazes, glaze formulation, and firing glazes in oxidation, reduction, and raku kilns.
- ARTS 3400 PRINTMAKING I** 2-4-3  
Basic printmaking processes. Emphasis on relief, intaglio and non-traditional processes, i.e. collagraph, monoprints.
- ARTS 3500 ART IN THE ELEMENTARY GRADES** 2-4-3  
Planning and implementing art instruction at the elementary level. Emphasis on materials, methods, procedures, and technology appropriate to children at different developmental levels with directed observation.

- ARTS 3510 ART FOR THE PRE-ADOLESCENT AND ADOLESCENT** 2-4-3  
Planning and implementing art instruction at the secondary level. Emphasis on materials, methods, procedures, and technology appropriate to the pre-adolescent and adolescent with directed observations.
- ARTS 3620 JEWELRY/ENAMELING** 2-4-3  
Design and production of jewelry and enameled objects.
- ARTS 3630 FABRIC DESIGN** 2-4-3  
Application of original designs to fabric with emphasis on batik, tie-dye, direct application, and combined techniques.
- ARTS 3640 WEAVING** 2-4-3  
Basic weaves, the hand loom, and off the loom weaving techniques.
- ARTS 3660 PAPERMAKING** 2-4-3  
Hand papermaking with emphasis on the production of both two- and three-dimensional pieces.
- ARTS 3700 FIGURE SCULPTURE** 2-4-3  
Prerequisite: ARTS 3300  
Basic sculpture ideas, terminology, processes. Emphasis on the human figure using clay and other media.
- ARTS 3710 SCULPTURE MATERIALS** 2-4-3  
Additive and subtractive sculpture techniques with emphasis on wood construction, carving, and mixed media.
- ARTS 3750 CONTEMPORARY ART AND CRITICISM** 3-0-3  
Prerequisite: ARTS 2710 and ARTS 2720  
Exploration of contemporary art historical and critical issues.
- ARTS 4140 FIGURE DRAWING** 2-4-3  
Prerequisite: ARTS 1011  
The human figure as structure and expressive form in various media.
- ARTS 4500 CURRICULUM AND METHODS IN ART EDUCATION** 2-4-3  
Prerequisite: ARTS 3500 or ARTS 3510 and admission to teacher education  
Supervised practice designed to give students the opportunity to further their studies in art education theory, history of art education, methods in teaching art, and use of technology in art education including supervised practice in the field.
- ARTS 4700 SENIOR PORTFOLIO** 2-4-3  
Open to seniors. Development of a body of work in medium of choice that demonstrates a consistent theme or approach. Course taken in preparation for the senior portfolio review and exhibition.
- ARTS 4890 SELECTED STUDIES IN ART** V-V-(1-4)  
Offered on demand to meet special institutional and community needs. 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**

2-4-3

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**

2-4-3

Prerequisite: Nine hours of coursework in a selected studio area  
Special problems in visual arts mutually agreed to by student and instructor.

**ASTR – Astronomy****ASTR 1010 ASTRONOMY OF THE SOLAR SYSTEM**

3-0-3

Prerequisite: eligibility for 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 3100 INTRODUCTION TO STELLAR ASTRONOMY**

3-0-3

Prerequisite: eligibility for MATH 1111  
Introduction to stellar astronomy. Stars, evolution of stars, galaxies, active galaxies and quasars, structure of the universe, and cosmology.

**BIOL – Biology****BIOL 1107 PRINCIPLES OF BIOLOGY I**

3-3-4

Prerequisite: eligibility for ENGL 1101  
Characteristics of living systems, structure and function of cells, genetics, evolution, biological chemistry, photosynthesis, principles and global aspects of ecology.

**BIOL 1108 SURVEY OF THE ANIMAL KINGDOM**

3-3-4

Prerequisite: BIOL 1107  
Evolutionary survey of the major animal phyla with special consideration of organ systems and natural history.

**BIOL 1120 DIVERSITY OF LIFE**

3-3-4

Prerequisite: BIOL 1107  
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 1121 HUMAN BIOLOGY**

3-0-3

Prerequisite: BIOL 1107  
Structure and function of human organ systems, human heredity, evolution, and ecology. (Credit may not be applied toward a major in biology.)

**BIOL 1122 ENVIRONMENTAL BIOLOGY**

3-0-3

Prerequisite: BIOL 1107  
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 1107  
Corequisite: CHEM 1211  
Genetics, classifications and methods of control of bacteria, fungi, protozoa and viruses, with introduction to medical, industrial and environmental microbiology.

- BIOL 2020 SURVEY OF THE KINGDOMS PLANTAE AND FUNGI** 3-3-4  
 Prerequisite: BIOL 1107  
 Phylogeny, morphology and ecology of plants, fungi, and lichens including prokaryotic and eukaryotic algae, bryophytes, extinct early land plants and their extant species and fossil records of ferns, gymnosperms and flowering plants.
- BIOL 2081 HUMAN ANATOMY AND PHYSIOLOGY I** 3-2-4  
 Gross anatomy, histology and physiology of human organ systems. (Non-majors course intended for health professions students.)
- BIOL 2082 HUMAN ANATOMY AND PHYSIOLOGY II** 3-2-4  
 Prerequisite: BIOL 2081  
 A continuation of BIOL 2081. Anatomy, histology, and physiology of human organ systems. (Non-majors course intended for health professions students.)
- BIOL 2150 HUMAN PHYSIOLOGY AND DISEASE** 3-2-4  
 Prerequisite: BIOL 2082  
 Disease as a disruptive factor of physiological homeostasis: normal function, control, and environment of cells as a basis for understanding cellular and systemic responses to agents of injury and organismic effects to those responses. (Credit may not be applied to a major in biology.)
- BIOL 2210 MICROORGANISMS AND DISEASE** 3-3-4  
 Prerequisite: BIOL 2082  
 Morphology, genetics, physiology, and public health importance of microorganisms with emphasis on bacterial pathogens.
- BIOL 2230 FOOD SCIENCE AND TECHNOLOGY** 3-0-3  
 Prerequisite: BIOL 2010 and CHEM 1211  
 Interdisciplinary survey of the chemical and biological nature and utilization of foods, including storage and processing technologies affecting health, safety, and consumption.
- BIOL 2500 PRINCIPLES OF MODERN BIOLOGY** 2-0-2  
 Prerequisite: BIOL 1107  
 Modern theories of gene structure, regulation and expression and principles of metabolism.
- BIOL 3000 CELL BIOLOGY** 4-0-4  
 Prerequisite: BIOL 2500  
 Corequisite: CHEM 1211  
 Evolution of cells from prokaryotic and from unicellular to multicellular. Structure of membranes, organelles, and cytoplasmic background, mitosis, meiosis, and the cell division cycle.
- BIOL 3010 MODERN BIOLOGY LABORATORY** 0-4-1  
 Prerequisite: BIOL 2500  
 Corequisite: CHEM 1211  
 Methods, techniques, and computer programs in modern cell and organismal biology. Micropipeting, protein assay including spectrophotometry and use of Kohler illumination, ocular micrometer calibration, plate magnification, DNA isolation and electrophoresis, and polymerase chain reaction.
- BIOL 3100 MAN AND THE ENVIRONMENT** 3-0-3  
 Prerequisite: BIOL 1107  
 Interactions between humans and the support systems of the earth which are essential to their existence. (Credit for this course may not be applied toward a major in biology.) Crosslisted as GEOG 3100.

- BIOL 3150 HORTICULTURE** 3-2-4  
Prerequisite: BIOL 2020  
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 TAXONOMY AND IDENTIFICATION OF FLOWERING PLANTS** 1-7-4  
Prerequisite: BIOL 2020  
Taxonomic systems used in plant classification, dichotomous keys, phytophagy, concepts of taxa, and uses of herbaria. Characteristics of major flowering plant families in the southeastern United States. Museum quality plant collection required. Weekly local field trips and trips to mountain regions and Florida.
- BIOL 3230 ANATOMY OF THE SEED PLANTS** 3-3-4  
Prerequisite: BIOL 2020  
The cells, tissues, and internal organ structure of seed plants with emphasis on conifers and flowering plants. Coverage includes a detailed treatment of wood structure and wood identification techniques.
- BIOL 3300 ENTOMOLOGY** 3-4-4  
Prerequisite: BIOL 1108  
Insects: structure, identification, and biology.
- BIOL 3310 INVERTEBRATE ZOOLOGY** 3-3-4  
Prerequisite: BIOL 1108  
Structure, body functions, interrelations, and natural history of invertebrate groups.
- BIOL 3400 HUMAN PHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 2500  
Human organ systems with special attention to neuromuscular and cardiopulmonary function.
- BIOL 3410 FUNDAMENTALS OF NUTRITION** 3-0-3  
Prerequisite: BIOL 1108 and BIOL 2082 and CHEM 1211  
Biological bases of animal, including human, nutrition; sources, biological utilization, and functions of nutrients.
- BIOL 3510 BACTERIOLOGY** 3-3-4  
Prerequisite: BIOL 2500  
Corequisite: CHEM 1211  
Prokaryotic cell structure and function including methods of control, industrial uses, and ecology.
- BIOL 3520 MEDICAL MICROBIOLOGY** 3-0-3  
Prerequisite: BIOL 2010 and CHEM 1211  
Disease causing microbes, their diagnosis, pathogenesis, and epidemiology.
- BIOL 3530 IMMUNOLOGY AND SEROLOGY** 3-3-4  
Prerequisite: BIOL 2010 and CHEM 1211  
Humoral and cellular immunity, structure and biosynthesis of antibodies, and interactions between antigens and antibodies. Emphasis on allergic states and immunological diseases.
- BIOL 3580 HISTOLOGICAL TECHNIQUE** 1-8-4  
Prerequisite: BIOL 1108 and BIOL 2010 and BIOL 2020  
Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant and animal materials.



- BIOL 3700 GENETICS** 3-4-4  
Prerequisite: BIOL 2500 and BIOL 3000  
Classical, sex-associated, linkage and mapping, chromosomal, cytoplasmic, quantitative, population, and basic genetics of microorganisms and viruses. Lab emphasis on drosophila, plants, and the ascomycetes.
- BIOL 3750 NATURAL HISTORY OF VERTEBRATE ANIMALS** 3-4-4  
Prerequisite: BIOL 1108  
Life histories, taxonomy, evolution, and adaptations of vertebrate animals with emphasis on identification and examination of local vertebrates through field oriented labs.
- BIOL 3770 DEVELOPMENTAL AND COMPARATIVE ANATOMY OF THE VERTEBRATES** 3-6-4  
Prerequisite: BIOL 1108  
Development, anatomy, and evolution of vertebrate organ systems.
- BIOL 3870 ANIMAL HISTOLOGY** 3-3-4  
Prerequisite: BIOL 1108  
Tissues and their organization into organs and organ systems in animals.
- BIOL 3920 PARASITOLOGY** 3-4-4  
Prerequisite: BIOL 1108  
Comparative study of the internal and external parasites of humans and other animals.
- BIOL 4000 ADVANCED CELLULAR PHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101 and CHEM 2101L  
Mechanisms, models, and theories explaining cellular phenomena with emphasis on eukaryotic animal cells, to include activities, electrical properties of cells, motility and communication.
- BIOL 4010 EVOLUTION** 3-0-3  
Prerequisite: BIOL 1108 and BIOL 2010 and BIOL 2020 and BIOL 2500  
Fossil and molecular evidence for the evolution of life on earth, mechanisms for evolution, rates of evolution, extinction, times of appearance, and dominance of the major vertebrate classes and vascular plant groups.
- BIOL 4090 MOLECULAR GENETICS** 1-8-4  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101 and CHEM 2101L  
Theories and principles in molecular biology including applications and ethical issues associated with new technologies. Laboratory emphasis on DNA isolation, quantification, hybridization and sequencing using prokaryotic systems. Methodologies include gel electrophoresis, Southern blotting and polymerase chain reaction. Term paper with oral and written presentations required.
- BIOL 4150 PLANT PHYSIOLOGY** 3-3-4  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Physiologic processes occurring in plants and the conditions which affect these processes.
- BIOL 4200 GENERAL VERTEBRATE PHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 1108 and BIOL 2500  
Corequisite: BIOL 4220 and CHEM 2101  
General physiologic processes of vertebrates.

- BIOL 4210 COMPARATIVE PHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101  
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 and BIOL 2500 and BIOL 3000  
Corequisite: BIOL 4200 and CHEM 2101  
Vertebrate endocrine systems: glands, targets, mechanisms of action, and control of metabolism.
- BIOL 4300 MICROBIAL PHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101  
Basic principles of chemical cytology of the microbial cell. Cell membrane structure and function, biochemistry of the cell, substrate uptake, energy production and conversions, metabolism, monomer and polymer biosynthesis, regulation and differentiation.
- BIOL 4310 APPLIED MICROBIOLOGY** 3-3-4  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101  
Microbiological aspects of food, milk, water, domestic wastes, and industry.
- BIOL 4320 ENVIRONMENTAL MICROBIOLOGY** 4-0-4  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Corequisite: CHEM 2101  
Principles and applications of environmental microbiology. Topics include habitat and community ecology; biogeochemical cycles; biodegradation; pollution control; resource recovery; soil, water, and waste management. Lab research project with oral and written presentations required.
- BIOL 4400 VIROLOGY** 3-0-3  
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000  
Chemical and physical characteristics of viruses including pathogenesis and epidemiology.
- BIOL 4450 MORPHOLOGY OF VASCULAR PLANTS** 3-3-4  
Prerequisite: BIOL 2020  
Vascular plants with emphasis on form, anatomy, organography, reproduction, and evolutionary relationships; gametophyte and sporophyte structure, gametangia, sporangia, and embryogeny. Plant divisions from the extinct Rhyniophytes to the Magnoliophyta.
- BIOL 4510 MODERN PRINCIPLES OF DEVELOPMENT** 3-0-3  
Prerequisite: BIOL 1108 and BIOL 2500 and BIOL 3000  
Cellular and molecular level signals which guide differentiation and morphogenesis.
- BIOL 4550 BIOLOGY OF MARINE ORGANISMS** 3-4-4  
Prerequisite: BIOL 1108 and BIOL 2020  
Relationship between organisms and abiotic and biotic features of the marine environment, with emphasis on local marine ecosystems. Field labs.
- BIOL 4560 PHYSIOLOGICAL ECOLOGY** 3-3-4  
Prerequisite: BIOL 1108 and BIOL 2020 and BIOL 2500  
Organismal level, especially animal, responses and adaptations to biotic and abiotic environmental variables, primarily heat, light, and water.

**BIOL 4700 GENERAL ECOLOGY****3-4-4**

Open to seniors only. Principles of ecology and their application to the welfare of humans; field study of populations and communities, research project with oral and written presentation. Ecology is a discipline which draws on information and methods from other areas of biology and science, and constitutes a capstone experience for biology students. Required for biology major. Must have two biology courses numbered 3000 or above to register.

**BIOL 4800 SENIOR SEMINAR****1-0-1**

Open to seniors only. Library research, oral and written presentations, discussions in related areas of biology. Open to seniors in the last two semesters of their biology major program. Required for biology majors.

**BIOL 4910 RESEARCH I****V-V-3**

Prerequisite: permission of instructor or department

Assigned research activity directed by a faculty member in the department: literature search, field and/or laboratory investigation and presentation (oral and written) of results. Project to be approved by the faculty member and department head. Must have three biology major courses at the 3000+ level and a B average in biology courses and overall work.

**BIOL 4920 RESEARCH II****V-V-3**

Prerequisite: permission of instructor or department

Assigned research activity directed by a faculty member in the department: literature search, field and/or laboratory investigation and presentation (oral and written) of results. Project to be approved by the faculty member and department head. Must have three biology major courses at the 3000+ level and a B average in biology courses and overall work.

**BIOL 4950 INTERNSHIP I****V-V-3**

Prerequisite: permission of instructor or department

Biological project sponsored by an outside agency. Project selected, supervised, evaluated by faculty advisor and department head in consultation with outside agency.

**BIOL 4960 INTERNSHIP II****V-V-3**

Prerequisite: permission of instructor or department

Biological project sponsored by an outside agency. Project selected, supervised, evaluated by faculty advisor and department head in consultation with outside agency.

**BIOL 4970 SPECIAL TOPICS****V-V-3**

Prerequisite: permission of instructor or department

Topics of special interest.

**BIOL 5810U HUMAN PHYSIOLOGY****3-0-3**

Functioning of human organs and systems. Some neuromuscular and cardiopulmonary emphasis.

**CEUG – Education Core****CEUG 1010 HUMAN GROWTH AND DEVELOPMENT****3-1-3**

Lifespan development that focuses on physical, emotional, cognitive, and social development. Application to classroom teaching and learning.

**CEUG 2100 TEACHING AND THE EXCEPTIONAL CHILD****3-1-3**

Prerequisite: CEUG 1010

Orientation to professional teaching and to the exceptional child with emphasis on educational implications and rehabilitation requirements.

- CEUG 3072 TEACHING OF READING** 3-4-3  
Prerequisite: ECUG 3071 or permission of instructor  
Developmental reading program with emphasis on reading skills, approaches, techniques, materials and evaluation including directed field experiences. Crosslisted as ECUG 3072.
- 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 3351 GENERAL SCHOOL CURRICULUM AND METHODS (P-12)** 3-6-3  
Prerequisite: admission to teacher education  
Directed field experience. Study of P-12 curriculum and methods. Detailed study of techniques of systematic observation, preparation of behavioral objectives, analysis of critical incidents, production of media materials, practices of classroom control, instructional models, and technical applications.
- CEUG 4100 INDEPENDENT STUDY** 1-8-3  
Prerequisite: admission to teacher education  
An in-depth, closely supervised, instructor-approved study in education. Student must have skills in independent research and study.
- CEUG 4110 STUDENT TEACHING P-12** 0-V-9  
Prerequisite: admission to teacher education  
Provides opportunities to use knowledge and skills in a supervised P-12 public school setting.
- CEUG 4630 CLASSROOM MANAGEMENT P-12** 3-8-3  
Prerequisite: admission to teacher education  
Provides research knowledge base to create a well-managed classroom and guide the behavior of P-12 students. Field placement.
- CEUG 4811, -12 INTERNSHIP P-12** 0-V-6  
Prerequisite: permission of the director of professional laboratory experiences.  
Students who hold teaching positions in school and/or clinical settings will be supervised by a university faculty member for one academic semester.
- CEUG 5010U EDUCATION TESTS AND MEASUREMENTS** 3-2-3  
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 1151 SURVEY OF CHEMISTRY I** 3-0-3  
Prerequisite: eligibility for 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 1111  
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  
Corequisite: CHEM 1152  
Laboratory exercises supplement the lecture material of CHEM 1152.
- CHEM 1211 PRINCIPLES OF CHEMISTRY I** 3-0-3  
Prerequisite or Corequisite: MATH 1111  
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; solutions; thermochemistry; and periodic relations.
- CHEM 1211L PRINCIPLES OF CHEMISTRY I LAB** 0-4-1  
Corequisite: CHEM 1211  
Analytical applications of chemical laws and principles emphasized through laboratory investigations.
- CHEM 1212 PRINCIPLES OF CHEMISTRY II** 3-0-3  
Prerequisite: CHEM 1211  
Corequisite: CHEM 1212L  
Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include thermodynamics; equilibria (including complex equilibria); kinetics; electrochemistry; nuclear chemistry; descriptive inorganic chemistry; and introduction to organic chemistry.
- CHEM 1212L PRINCIPLES OF CHEMISTRY II LAB** 0-4-1  
Corequisite: CHEM 1212  
Analytical applications of chemical laws and principles emphasized through laboratory investigations.
- CHEM 2010 ESSENTIALS OF CHEMISTRY** 3-0-3  
Prerequisite: eligibility for MATH 1111  
Quantitative survey of chemical sciences emphasizing applications in human physiology, clinical chemistry, inorganic, organic, and biochemistry. Experimental principles illustrated with classroom demonstrations. (Credit in CHEM 2010 may not be applied to the major field requirement in chemistry.)
- CHEM 2101 ORGANIC CHEMISTRY I** 3-0-3  
Prerequisite: CHEM 1212  
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 and CHEM 2101L  
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  
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 3071 PRINCIPLES OF CHEMICAL PROCESSES I** 2-0-2  
Prerequisite: CHEM 1212 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. (Credit in CHEM 3072 may not be applied to the major field requirement in chemistry.)
- CHEM 3100 CHEMICAL FORENSICS** 3-4-4  
Prerequisite: eligibility for MATH 1111 and 3 semester hours of lab science  
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.
- CHEM 3200 INORGANIC CHEMISTRY** 3-4-4  
Prerequisite: CHEM 2300  
Prerequisite or corequisite: CHEM 2101  
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 and CHEM 2300

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 I**

3-4-4

Prerequisite: CHEM 2300 and MATH 1161 and either PHYS 1111 or PHYS 2211

Fundamentals of physical chemistry including gas laws, heat and work, and laws of thermodynamics. Material and reaction equilibrium and standard thermodynamic functions. Single and multi-component phase equilibria. Analytical applications of physical chemistry emphasized through lab investigations.

**CHEM 3402 PHYSICAL CHEMISTRY II**

3-4-4

Prerequisite: CHEM 3401

Continuation of CHEM 3401. Kinetic-molecular theory, transport processes, reaction kinetics, quantum mechanics, theories of atomic/molecular structure, spectroscopy, photochemistry. Analytical applications of physical chemistry emphasized through lab investigations.

**CHEM 3801 BIOCHEMISTRY I**

3-4-4

Prerequisite: CHEM 2102

Chemistry of cellular components. Protein structure and function, enzyme kinetics, and mechanisms of catalysis, carbohydrate and lipid metabolism and biosynthesis. Analytical applications of biochemistry emphasized through lab investigations.

**CHEM 3802 BIOCHEMISTRY II**

3-0-3

Prerequisite: CHEM 3801

Chemistry of cellular components: function and biosynthesis of nucleic acids, DNA manipulations and recombinant technology, DNA transcription, translation, protein synthesis, and regulation of gene expression.

**CHEM 3900 CHEMICAL RESEARCH**

0-V-V

Prerequisite: permission of department head

Prerequisite or corequisite: CHEM 2102

Open only to majors in chemistry. Faculty originated chemical lab-based research project. Written report. Open to transient students only with permission of the department head.

**CHEM 4100 ADVANCED ORGANIC CHEMISTRY**

3-4-4

Prerequisite: CHEM 2102 and CHEM 2102L and CHEM 3402

Topics include synthesis of complex molecules and natural products, asymmetric synthesis and mechanistic organic chemistry. Analytical applications of organic chemistry emphasized through lab investigations.

**CHEM 4200 ADVANCED INORGANIC CHEMISTRY**

3-4-4

Prerequisite: CHEM 3200 and CHEM 3401

Topics include mechanisms of inorganic reactions, bioinorganic chemistry, solid state, organometallic and others of current interest. Independent research project including a literature search, lab research, and oral presentation of results required.

**CHEM 4300 ADVANCED INSTRUMENTAL ANALYSIS**

3-4-4

Prerequisite: CHEM 3300 and CHEM 3402

Spectrometric and chromatographic analysis. Ultraviolet, atomic emission, atomic absorption, infrared, nuclear magnetic resonance, mass spectrometry, gas and high performance liquid chromatography. Applications of instrumental analysis emphasized in the lab.

**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 4960 INTERNSHIP**

V-V-(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, -2, -3, -4 ADVANCED CHEMICAL RESEARCH**

0-(3-9)-(1-3)

Prerequisite: permission of department head and CHEM 2101 and CHEM 5501U and CHEM 3401

Faculty-originated chemical lab-based research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.

**CHEM 5501U CHEMISTRY SEMINAR I**

1-0-1

Prerequisite: CHEM 2102

Introduction to use of the chemistry library, journals, references, and electronic information sources. Students select approved topics of scientific interest, perform literature searches, and prepare written critiques. Students required to attend faculty and scientific lectures.

**CHEM 5502U CHEMISTRY SEMINAR II**

1-0-1

Prerequisite: CHEM 5501U

Continuation of CHEM 5501U. Students select approved topics, perform literature searches, prepare written reports, and make oral presentations at faculty/student forums.

**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 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 may not be applied to the major field requirements 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

Prerequisite: ENGL 1101

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 Atlantic's video production coordinator. Only one hour of credit may be earned per semester. Repeatable up to three hours. Crosslisted as THEA 3270.
- COMM 3360 CRITICAL APPROACHES TO MASS CULTURE** 3-0-3  
 Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251  
 Examination of the theoretical and critical approaches to the study of various forms of cultural expression, including film television, popular literature, magazines, music, video, and radio. Applications of various critical methodologies to these forms. Crosslisted as FILM 3360.
- COMM 4000 SPECIAL TOPICS IN COMMUNICATION** V-V-3  
 Prerequisite: COMM 2280 or permission of instructor  
 Subject announced when course offered. Subjects vary, such as: environmental impacts on communication, transactional analysis theory.
- CRJU – Criminal Justice**
- CRJU 1010 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 1020 ETHICAL THEORIES AND MORAL ISSUES IN CRIMINAL JUSTICE** 2-0-2  
 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 1030 INTERPERSONAL COMMUNICATION SKILLS** 3-0-3  
 Development of interpersonal communication skills to improve interaction among agency employees and between employees and the public.
- CRJU 1200 INTRODUCTION TO LAW ENFORCEMENT** 3-0-3  
 Prerequisite: CRJU 1010  
 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 2010 UNIVERSAL JUSTICE** 2-0-2  
 Prerequisite: eligibilty for ENGL 1101  
 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 2100 CRIMINOLOGY** 3-0-3  
Prerequisite: eligibility for 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 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 2500 CRIMINAL EVIDENCE AND PROCEDURE** 3-0-3  
Prerequisite: CRJU 1010  
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 2510 INTRODUCTION TO CRIMINAL LAW** 3-0-3  
Prerequisite: CRJU 1010  
Origin and evolution of legal norms used by government to control deviant behavior, and their distinct form and overlap with moral and social norms. Emphasis on the role of criminal law in a system of ordered liberty.
- CRJU 2700 DIRECTED READINGS IN CRIMINAL JUSTICE** V-V-(1-3)  
Prerequisite: CRJU 1010  
Independent study and research on an approved topic, directed by a faculty member.
- CRJU 3100 RESEARCH METHODS** 3-0-3  
Prerequisite: ENGL 1101 and ENGL 1102 and 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 2100  
Critiques of American criminal justice theory and practice from alternative viewpoints.
- CRJU 3120 ILLEGAL IMMIGRATION** 3-0-3  
Prerequisite: CRJU 1010 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 1010 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 1010  
 Nature, scope, and impact of white collar, corporate, and organized crime on the individual and American society.
- 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 1010  
 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 1010  
 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 3400 CORRECTIONS** 3-0-3  
 Prerequisite: CRJU 1010  
 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 3410 COMMUNITY-BASED TREATMENT** 3-0-3  
 Prerequisite: CRJU 3400  
 Review of community-based treatment programs, emphasizing functions of halfway houses and use of volunteers in corrections.
- CRJU 3510 FAMILY VIOLENCE** 3-0-3  
 Prerequisite: CRJU 1010 or SOCI 1101 or permission of the instructor  
 Study of the family as an institution that may produce violent individuals. Correlates of family violence, theoretical explanations, impact on public policy, effects on victims and society. Crosslisted as SOCI 3510.
- 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 4100 CRIMINALITY AND ABNORMAL BEHAVIOR** 3-0-3  
 Prerequisite: CRJU 1010  
 Interface between abnormal behavior and criminality regarding identification, classification, and treatment of criminals. Emphasis on behavioral patterns and motivations of repeat offenders such as child molesters and serial killers.
- CRJU 4400 SEMINAR IN CORRECTIONS MANAGEMENT** 3-0-3  
 Prerequisite: CRJU 3400  
 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 2500 and CRJU 5500U  
Epistemological assumptions and policy purposes of evidentiary rules, doctrines and concepts.
- CRJU 4510 ADVANCED CRIMINAL LAW** 3-0-3  
Prerequisite: CRJU 2510 and CRJU 5500U  
Criminal law as social control within ordered liberty. Emphasizes economic and moral components of undergirding public policy.
- CRJU 4800 INTERNSHIP** V-V-12  
Prerequisite: permission of instructor or department  
Open to juniors or above. Application of academic knowledge in criminal justice setting. Joint supervision by faculty internship coordinator and agency officials. Open to transient students only with permission of the department head.
- 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. Conduct of research and presentation of results orally and in a paper conforming to departmental guidelines.
- CRJU 5130U POLITICAL TERRORISM** 3-0-3  
Prerequisite: CRJU 1010 and either 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. Crosslisted as POLS 5130U.
- CRJU 5200U ALCOHOL, DRUGS, AND CRIMINAL JUSTICE** 3-0-3  
Prerequisite: CRJU 1010  
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 1010  
Theories of juvenile delinquency, emphasizing sociological, biological, and psychological factors. Modern trends in prevention and treatment.
- CRJU 5500U LAW AND LEGAL PROCESS** 3-0-3  
Prerequisite: 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 5500U or POLS 5500U  
Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as POLS 5520U.

**CSCI – Computer Science****CSCI 1050 INTRODUCTION TO COMPUTER CONCEPTS AND APPLICATIONS****2-3-3**

Prerequisite: 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 representative problems. Emphasis on the major uses of computers. Not designed for the computer science major. Credit granted for only one of CSCI 1050, 1060 or 2060.

**CSCI 1060 COMPUTER CONCEPTS AND APPLICATIONS FOR SCIENCE STUDENTS****2-3-3**

Corequisite: MATH 1113

Introduction to computing and algorithmic development including data structures (not computer programming). Laboratory emphasis on using personal computer productivity tools and campus computing resources. Includes operating systems and application of standard tools to solve representative problems from science and engineering. Credit granted for only one of CSCI 1050, 1060, or 2060.

**CSCI 1301 INTRODUCTION TO PROGRAMMING PRINCIPLES****3-3-4**

Prerequisite: MATH 1113

Fundamentals of computer programming, including: structured programming, control structures; input/output, functions and procedures, fundamental data types, arrays and records, elementary searching and sorting; debugging techniques.

**CSCI 1302 ADVANCED PROGRAMMING PRINCIPLES****3-0-3**

Prerequisite: MATH 1113 and CSCI 1301

Advanced computer programming, including: introduction to algorithmic analysis, abstract data types, recursion, binary files, pointers, lists, queues, stacks, trees, efficient sorting algorithms.

**CSCI 1330 RPG PROGRAMMING****1-0-1**

Prerequisite: CSCI 1301

Introduction to RPG including programming applications for small computer systems.

**CSCI 1360 FORTRAN PROGRAMMING****1-0-1**

Prerequisite: CSCI 1301

Algorithmic processes of computer problem solving in a scientific context using FORTRAN programming language. Topics include syntax, arrays, input-output, subroutines, functions.

**CSCI 1370 PROGRAMMING PRINCIPLES WITH COBOL****1-0-1**

Prerequisite: CSCI 1301

Introduction to COBOL programming language. Topics include basic syntax, input-output, debugging, table handling, sorting, searching, sequential and random file manipulation, structured programming.

**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 CSCI 1050, 1060, or 2060.

- CSCI 2070 ETHICAL CONSIDERATIONS IN COMPUTER SCIENCE** 1-0-1  
Study of ethical considerations for computer professionals and users. Topics include issues of privacy, security, intellectual rights.
- CSCI 2252 COMPUTATIONAL METHODS IN STATISTICS** 3-0-3  
Prerequisite: MATH 2200 and either CSCI 1050 or CSCI 1301  
Statistical programming with Minitab and SAS software, including data analyses involving ANOVA, multiple regression, nonparametric statistics. Crosslisted as MATH 2252.
- CSCI 2390 PROGRAMMING IN C++** 1-0-1  
Prerequisite: CSCI 1302  
Introduction to C++ programming language. Topics include syntax of C++, input/output, control structures, data types, compilation units. Introduction to classes, including use and simple class implementation.
- CSCI 2620 DISCRETE STRUCTURES FOR COMPUTER SCIENCE** 4-0-4  
Prerequisite: MATH 1113 and CSCI 1301  
Introduction to propositional and predicate logic; naive set theory; relations and functions; graphs; finite automata; Turing machines; formal languages and grammars.
- CSCI 2990 TOPICS IN COMPUTER SCIENCE** V-V-(1-3)  
Prerequisite: announced with the topic  
Special topics at freshman and sophomore level of current interest in computer science.
- CSCI 3201 COMPUTER ORGANIZATION AND ARCHITECTURE I** 3-0-3  
Prerequisite: CSCI 1302  
Hardware and software concepts of digital computing systems, with emphasis on fundamental system software and details of hardware operation. Virtual machines, systems organization, digital logic, microprogramming, instruction on data formats, addressing modes, instruction types, flow of control, virtual memory, assembly language programming, advanced computer architectures (including RISC machines and parallel architectures).
- CSCI 3202 COMPUTER ORGANIZATION AND ARCHITECTURE II** 3-0-3  
Prerequisite: CSCI 3201  
Continuation of CSCI 3201.
- CSCI 3321 SOFTWARE ENGINEERING CONCEPTS** 3-0-3  
Prerequisite: CSCI 3450 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 2390 and CSCI 2620  
Corequisite: CSCI 3202  
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.
- CSCI 3341 OPERATING SYSTEMS I** 3-0-3  
Prerequisite: CSCI 3202  
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.

**CSCI 3410 ALGORITHMS AND DATA STRUCTURES****3-0-3**

Prerequisite: CSCI 2390 and CSCI 3450 and CSCI 2620

Introduction to design and analysis of algorithms and data structures. Topics include abstract data types, algorithms for the manipulation of data structures, analysis of algorithms, concepts related to the interaction between data structures and storage structures, algorithms for memory management, other fundamental algorithms in computer science.

**CSCI 3450 INTRODUCTION TO FILE STRUCTURES****3-0-3**

Prerequisite: CSCI 1302

Introduction to concepts and techniques of accessing data in files on secondary devices including sequential, relative and indexed access methods, tree-structured organizations, introductory and relational database system concepts, external sorting.

**CSCI 3961, -72, -83 INTERNSHIP IN COMPUTER SCIENCE****V-V-(1-3)**

Prerequisite: permission of instructor or department

Practical study experiences in a variety of computing environments under the direction of faculty and appropriate off-campus supervisors.

**CSCI 3990 PROGRAMMING SEMINAR****0-2-1**

Prerequisite: CSCI 1302

Development of problem solving techniques in a team environment. (Designed for but not restricted to, programming contests.)

**CSCI 4210 INTRODUCTION TO PARALLEL COMPUTING****3-0-3**

Prerequisite: CSCI 3201

Introduction to parallel computing through study of hardware and software. Architecture, algorithms, programming languages and environments, operating systems, interconnection networks, and performance characteristics of parallel systems. Programming required.

**CSCI 4220 DATA COMMUNICATIONS AND COMPUTER NETWORKS****3-0-3**

Prerequisite: CSCI 3202

Introduction to data communications and networking. Topics include communications media, codes, data transmission, multiplexing, protocols, layered networks.

**CSCI 4322 SOFTWARE ENGINEERING II****3-0-3**

Prerequisite: CSCI 3321

Advanced software engineering principles, including software processes and methodologies, CASE tools, software metrics, software quality assurance, reusability and reengineering, and future trends. A major project encompassing some or all of these concepts.

**CSCI 4342 OPERATING SYSTEMS II****3-0-3**

Prerequisite: CSCI 3341

Case studies of UNIX (tm) and/or similar operating systems. Elementary knowledge of C/C++ required.

**CSCI 4343 SYSTEMS PROGRAMMING UNDER UNIX (tm)****2-0-2**

Prerequisite: CSCI 2390 and CSCI 3341

UNIX (tm) system programming techniques in C. Topics include I/O forking, pipes, signals, interrupts software tools, macros, conditional compilation, passing values to the compiler, lint, symbolic debugging, source code control, libraries.

**CSCI 4350 COMPILER THEORY****3-0-3**

Prerequisite: CSCI 3330 and CSCI 3410

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 4390 SENIOR PROJECT** 0-3-3  
Prerequisite: permission of instructor or department and CSCI 3321  
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.
- CSCI 4610 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.
- CSCI 4720 DATABASE SYSTEMS** 3-0-3  
Prerequisite: CSCI 3321  
Database management system concepts and architecture; the relational, hierarchical, network, entity-relationship, and other models; design concepts; internal implementation techniques.
- CSCI 4820 INTRODUCTION TO ARTIFICIAL INTELLIGENCE** 4-3-3  
Prerequisite: CSCI 3330  
Basic concepts of artificial intelligence including production systems, knowledge representation, pattern matching, heuristic search, logical and probabilistic reasoning, and expert systems. The social, cultural, and economic impact of artificial intelligence.
- CSCI 4830 COMPUTER GRAPHICS** 3-0-3  
Prerequisite: CSCI 3410  
Introduction to computer graphics. Topics include hardware and software, algorithms for computer graphics programming, windows, clipping, two- and three-dimensional transformations, hidden line and hidden surface removal, graphics standards for hardware and software systems. Major project encompassing some or all of these concepts.
- CSCI 4880 INTRODUCTION TO KNOWLEDGE-BASED SYSTEMS** 3-0-3  
Prerequisite: CSCI 4820  
Overview of knowledge-based systems. Knowledge representation: frames, objects, logic. Reasoning: rule-based, uncertainty, inexact. Architecture: production, blackboard. Major project encompassing some or all of these concepts.
- CSCI 4990 SPECIAL TOPICS IN COMPUTER SCIENCE** V-V-(1-3)  
Prerequisite: announced with the topic  
Selected topics in some area of current interest in computer science. Possible areas include system simulation, graphics and microcomputers.
- CSCI 5010U COMPUTER LITERACY FOR EDUCATORS** 3-0-3  
Prerequisite: MATH 1111  
Study of computers with emphasis on instructional use. Hands-on experience with the use of widely used commercial packages. (This course may not be counted toward the M. Ed. in mathematics.)
- CSCI 5990U TOPICS IN COMPUTER SCIENCE** V-V-(1-3)  
Prerequisite: announced with the topic  
Selected topics in current areas of interest in computer science.
- DHED – Dental Hygiene Education**
- DHED 3300 DENTAL HYGIENE RESEARCH** 3-0-3  
Open to majors in dental hygiene education. Research and the scientific method with application to the field of dental hygiene.



- DHED 3310 DENTAL MANAGEMENT OF MEDICALLY COMPROMISED PATIENTS** 3-0-3  
Open to majors in dental hygiene education. Important factors in the dental management of medically compromised patients.
- DHED 4400 FOUNDATIONS OF DENTAL HYGIENE EDUCATION** 2-3-3  
Open to majors in dental hygiene education. An introduction to the foundations of dental hygiene education including educational process, licensure, and application of information systems. All 1100 level dental hygiene courses must have been completed.
- DHED 4401 EDUCATIONAL METHODS IN DENTAL HYGIENE EDUCATION I** 2-3-3  
Prerequisite or corequisite: DHED 4400  
Teaching methods, program objectives, and establishment and organization of content including methods of evaluation, various testing strategies, and supervision in the dental hygiene clinic.
- DHED 4402 EDUCATIONAL METHODS IN DENTAL HYGIENE EDUCATION II** 2-3-3  
Prerequisite: DHED 3300 and DHED 4400 and DHED 4401  
Learning styles and activities, teaching procedures, and the presentation of dental hygiene education materials.
- DHED 4403 DIRECTED AND INDIVIDUAL STUDY** V-V-3  
Prerequisite: DHED 3300 and DHED 4400 and DHED 4401  
Directed individual study in an area of major interest of research with emphasis relevant to dental hygiene research and future career objectives.
- DHED 4410 ADVANCED PERIODONTICS** 2-3-3  
Open to majors in dental hygiene education. Advanced knowledge of and current trends in periodontics including a clinical component.
- DHED 4490H HONORS ADVANCED PERIODONTICS** 2-3-3  
Open to majors in dental hygiene education. Advanced knowledge of complex clinical skills and responsibilities and current trends in periodontics. Must have minimum 3.2 GPA in major field of study, selection by program and approval by the affiliate.
- DHYG – Dental Hygiene**
- DHYG 1100 HEAD AND NECK ANATOMY** 2-0-2  
Open to majors in dental hygiene. Gross anatomical relationships in the head and neck with emphasis on anatomy of the oral cavity and its clinical application.
- DHYG 1101 CLINICAL DENTAL HYGIENE I** 2-6-4  
Open to majors in dental hygiene. Introduction to the dental hygiene profession including clinical procedures on mannequins and student partners.
- DHYG 1102 CLINICAL DENTAL HYGIENE II** 2-9-5  
Prerequisite: DHYG 1100 and DHYG 1101 and DHYG 1110  
Application and integration of oral prophylactic techniques.
- DHYG 1110 DENTAL ANATOMY** 2-0-2  
Open to majors in dental hygiene. Nomenclature, morphology, and eruption sequence of the primary and secondary dentitions.

- DHYG 1120 DENTAL ROENTGENOLOGY** 2-3-3  
Prerequisite: DHYG 1100 and DHYG 1101 and DHYG 1110  
Fundamentals of dental radiology using intra-oral and extra-oral techniques for the taking and processing of radiographs.
- DHYG 1130 GENERAL AND ORAL PATHOLOGY AND ORAL HISTOLOGY** 2-0-2  
Open to majors in dental hygiene. Principles of general and oral pathology in relation to common oral diseases. Histology and embryology of the oral cavity.
- DHYG 1140 PERIODONTICS** 2-0-2  
Open to majors in dental hygiene. Basic principles of periodontal health and disease in relation to the total health of the patient including concepts of etiology and periodontal pathology.
- DHYG 2201 CLINICAL DENTAL HYGIENE III** 2-12-6  
Prerequisite: all 1000 level DHYG courses and CHEM 2010 and BIOL 2081 and BIOL 2082 and BIOL 2210  
Continuation of preceding clinical courses with emphasis on students' advancement and improved proficiency in clinical skills and integration of didactic knowledge into the clinical arena.
- DHYG 2202 CLINICAL DENTAL HYGIENE IV AND ETHICAL DECISIONS** 2-15-7  
Prerequisite: DHYG 2201  
Continuation of preceding clinical courses with emphasis on students' advancement and improved proficiency in clinical skills and integration of didactic knowledge into the clinical arena. Jurisprudence and ethical decisions.
- DHYG 2210 PHARMACOLOGY, EMERGENCY MANAGEMENT, AND ANESTHESIOLOGY** 2-0-2  
Open to majors in dental hygiene. Drugs and anesthetics with emphasis on those used in dentistry. Emergency management of clinical situations.
- DHYG 2220 DENTAL MATERIALS** 1-3-2  
Prerequisite: DHYG 1101 and DHYG 1102  
Chemical, physical, and mechanical properties of dental materials and application during the clinical experience.
- DHYG 2230 APPLIED NUTRITION** 2-0-2  
Open to majors in dental hygiene. Nutrition and nutrition education as applied to the practice of dental hygiene.
- DHYG 2240 PREVENTIVE PERIODONTICS** 1-0-1  
Prerequisite: DHYG 1102 and DHYG 1140  
Prevention of periodontal diseases, treatment planning, and case presentations.
- DHYG 2250 DENTAL PUBLIC HEALTH** 2-3-3  
Prerequisite: DHYG 2201  
Aspects of public health and needs of the community. Application of modern methods of dental health education. Field experiences.
- DHYG 2290 INDEPENDENT STUDY FOR RE-ENTRY INTO PROFESSIONAL DENTAL HYGIENE** V-V-(1-6)  
Prerequisite: permission of instructor or department  
Didactic and clinical component for updating knowledge of and skills in current dental hygiene practice.

**ECON – Economics**

- 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 2030 PRINCIPLES OF ACCOUNTING I** 3-0-3  
Prerequisite: eligibility for MATH 1111  
Fundamental principles and practices of accounting; the construction and interpretation of balance sheets and profit and loss statements; the theory of debits and credits and their application to the accounting process.
- ECON 2040 PRINCIPLES OF ACCOUNTING II** 3-0-3  
Prerequisite: ECON 2030  
The application of accounting principles to specialized problems found in proprietorships, partnerships and corporations, with emphasis on cost accounting theory, modern methods of data processing, and the sources and applications of funds.
- ECON 2105 PRINCIPLES OF MACROECONOMICS** 3-0-3  
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111  
Intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies.
- ECON 2106 PRINCIPLES OF MICROECONOMICS** 3-0-3  
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111  
Intended to introduce students to concepts that will enable them to understand and analyze structure and performance of the market economy.
- 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 as presented.
- ECON 3060 INTERMEDIATE MICROECONOMICS** 3-0-3  
Prerequisite: ECON 2106  
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  
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 3300 MONEY AND BANKING** 3-0-3  
Prerequisite: ECON 2105  
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 including organization and operation of American trade unionism, collective bargaining, economics of the labor market, wage theory, and economic distribution.
- ECON 3500 MANAGERIAL ECONOMICS** 3-0-3  
Prerequisite: ECON 2106  
Examination of economic theories used to aid 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: MATH 1161 and MATH 1950 and ECON 2105 and ECON 2106  
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 U.S.** 3-0-3  
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 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 4010, -20, -30 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 4210 INTERNATIONAL LAW OF EXPROPRIATION AND COMPENSATION** 3-0-3  
Prerequisite: HIST 1100 or POLS 1100  
Corequisite: POLS 3260  
Examination of the traditional western view of the right of governments to expropriate foreign-owned property compared to the view of many third-world and Marxist governments expropriating property owned by U.S. citizens and corporations. Focus on arbitration and adjudication processes, as well as the role of the executive and legislative branches.
- ECON 4310 INTERNATIONAL FINANCIAL INSTITUTIONS** 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 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: permission of instructor or department and ECON 3200  
 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 ECONOMIC SYSTEMS** 3-0-3  
 Prerequisite: ECON 2105  
 Basic tenets of the major economic systems developed in the nineteenth and twentieth centuries and the role of government and politics along with the contributions to economic and political thought of such men as Adam Smith, Karl Marx, John Maynard Keynes, and Milton Friedman.
- ECON 4500 PUBLIC FINANCE** 3-0-3  
 Prerequisite: ECON 2105  
 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, -30, -40 INTERNSHIP** 3-0-3  
 Prerequisite: permission of instructor or department  
 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. Open to transient students only with permission of department head.
- ECUG – Early Childhood Education**
- ECUG 2020 ENVIRONMENTAL, SOCIAL, AND HEALTH ISSUES OF THE YOUNG CHILD** 3-2-3  
 Prerequisite: CEUG 1010  
 Health and safety issues in early childhood emphasizing factors affecting physical, social, and emotional health (including disease and trauma).
- ECUG 3040 CHILDHOOD AND ADOLESCENCE** 3-0-3  
 Prerequisite: CEUG 2100 and ECUG 2020  
 Corequisite: ECUG 3050  
 Comprehensive overview of developmental process from prenatal through adolescence. Directed field experience.
- ECUG 3050 CURRICULUM AND METHODS P-5** 3-4-3  
 Prerequisite: CEUG 2100 and ECUG 2020  
 Corequisite: ECUG 3040  
 Development of curricula and selection of instructional strategies and materials appropriate for P-5 level. Directed field experience.
- ECUG 3060 LANGUAGE AND COGNITION** 3-2-3  
 Prerequisite: admission to teacher education  
 Normal development of language with emphasis on oral language and the relationships between cognition, speech and language. Directed field experience.
- ECUG 3071 LITERATURE AND LANGUAGE ARTS** 4-3-4  
 Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050 and ECUG 3060  
 Emergence of reading/writing processes during preschool, kindergarten, and early first grade years and the methods of presenting and integrating literature in the curriculum. Directed field experience.

- ECUG 3072 TEACHING OF READING** 3-4-3  
Prerequisite: ECUG 3071 or permission of instructor  
Developmental reading program with emphasis on reading skills, approaches, techniques, materials, and evaluation including directed field experiences. Crosslisted as CEUG 3072.
- ECUG 3090 CREATIVE ACTIVITIES** 3-3-3  
Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050  
The role of music, art, drama in the lives of young children. Organizing, designing, and analyzing creative activities and classroom environments with emphasis on integration into curriculum. Directed field experience.
- ECUG 3100 CONTEMPORARY SOCIAL ISSUES OF THE FAMILY** 3-2-3  
Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050  
The institution of family in its cultural context as a living, dynamic system with attention to social context of parenting and parents as advocate for children. Directed field experience.
- ECUG 3110 PRE-KINDERGARTEN PRACTICUM** 3-6-3  
Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050  
Appropriate methods for diagnosing and evaluating the young child using an integrated approach to curriculum planning and scheduling. Directed field experience.
- ECUG 3120 MOVEMENT AND HEALTH OF THE YOUNG CHILD** 3-3-3  
Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050  
Analysis of theories and factors influencing motor development of children and the learning of gross and fine motor skills. Directed field experience.
- ECUG 4070 SOCIAL STUDIES** 3-2-3  
Prerequisite: admission to teacher education and ECUG 3040 and ECUG 3050  
Selected themes, problems, concepts, and organization of instruction for social studies skills and processes needed by young children. Directed field experience.
- ECUG 4080 LIFE AND PHYSICAL SCIENCE** 4-2-4  
Prerequisite: admission to teacher education  
Content and skills to plan and implement a discovery science program for young child including strategies, evaluation, technology, materials and current practices. Directed field experience.
- ECUG 4090 CLASSROOM MANAGEMENT** 3-8-4  
Prerequisite: admission to teacher education and ECUG 3100 and ECUG 3040 and ECUG 3050  
Research knowledge base to create a well managed classroom and guide the behavior of young children. Directed field experience.
- ECUG 4100 STUDENT TEACHING AND SEMINAR I** 2-V-6  
Prerequisite: admission to teacher education  
Corequisite: ECUG 4110  
Opportunities to use knowledge and skills in a supervised P-2 public school setting.
- ECUG 4110 STUDENT TEACHING AND SEMINAR II** 2-V-6  
Prerequisite: admission to teacher education  
Corequisite: ECUG 4100  
Opportunities to use knowledge and skills in a supervised 3-5 public school setting.
- ECUG 4240 PRACTICUM IN INDIVIDUAL READING INSTRUCTION** 3-8-3  
Prerequisite: admission to teacher education,  
Pre- or corequisite: CEUG 3072 or ECUG 3072

Directed practice in the teaching of reading with emphasis on diagnosis and teaching of needed reading skills.

**ECUG 4300 DIAGNOSING AND PRESCRIBING FOR LEARNING PROBLEMS 3-3-3**

Pre- or corequisite: ECUG 4090 and either CEUG 3071 or ECUG 3071

Diagnostic and prescriptive principles underlying assessment and correction of learning problems. Directed field experience.

**ECUG 4811 INTERNSHIP I**

**0-V-6**

Prerequisite: permission of director of professional laboratory experiences

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

**ECUG 4812 INTERNSHIP II**

**0-V-6**

Prerequisite: permission of director of professional laboratory experiences and ECUG 4811

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

**EELE – Elementary Education**

**EELE 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.

**EEXE – Education – Exceptional**

**EEXE 3500 CHARACTERISTICS OF BEHAVIORAL DISORDERS**

**3-0-3**

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.

**EEXE 3510 METHODS FOR TEACHING BEHAVIORAL DISORDERS**

**3-2-3**

Prerequisite: EEXE 3500

Individualized and group methods of teaching students with behavior disorders are analyzed. An ecological developmental approach to behavioral and educational needs is emphasized.

**EEXE 4100 STUDENT TEACHING P-12**

**1-3-3**

Prerequisite: completion of all course work in program of study

Students are placed in selected schools for one semester. Classroom and staff responsibilities are jointly supervised by the university staff, supervising teachers and principals in the selected schools.

**ENGL – English**

**ENGL 0097 ENGLISH SKILLS**

**2-1-2**

Guidance and intensive practice in correcting errors in grammar and standard English. Editing for clarity and correctness, with emphasis on the student's own writing. Computer-assisted learning. Open to all students; especially helpful to students taking courses that require writing.

**ENGL 0098 BASIC WRITING SKILLS**

**3-0-3**

Prerequisite: placement according to CPE score

Sequence for reading and writing assignments. Writing process. Practice in correcting errors in grammar and standard English.

- ENGL 0099 BASIC COMPOSITION** 3-0-3  
Prerequisite: placement according to CPE score  
Sequence of reading and writing assignments. Writing process with emphasis on invention and revision. Editing skills for refining and correcting prose. CPE preparation.
- ENGL 0099T THEMATIC APPROACHES TO BASIC COMPOSITION** 3-0-3  
Prerequisite: placement according to CPE score  
Corequisite: READ 0099T  
A thematic approach to teaching basic composition. Focus on sequence of reading and writing assignments. Writing process with emphasis on invention and revision. Editing skills for refining and correcting prose. CPE preparation.
- ENGL 1101 COMPOSITION I** 3-0-3  
Prerequisite: Each student must attain at least one of the following prior to enrolling: (a) a score of at least 380 SAT Verbal and 40 or above on the TSWE (Test of Standard Written English) or 20 on the verbal section of the ACT; or (b) a passing score on the CPE in English and in reading; or (c) exit learning support English and learning support reading successfully.  
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  
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; fulfilment of all ENGL 1102 requirements at a higher level of achievement. Student must have any one of the following: admission to Armstrong Atlantic Honors Program; a score of three or above on AP exam; winner of an NCTE writing award; recommendation of English instructor and approval of department head with a minimum final grade of B in ENGL1101.
- 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 2000 ETHICS AND VALUES IN LITERATURE** 3-0-3  
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 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; fulfilment 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 2111 WORLD LITERATURE I** 3-0-3  
Prerequisite: ENGL 2100  
A survey of important works of world literature from ancient times through the mid-seventeenth century.
- ENGL 2112 WORLD LITERATURE II** 3-0-3  
Prerequisite: ENGL 2100  
A survey of important works of world literature from the mid-seventeenth century to the present.
- ENGL 2121 BRITISH LITERATURE I** 3-0-3  
Prerequisite: ENGL 2100  
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  
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  
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  
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  
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  
Application of theories to the teaching of composition. Devising assignments, conducting class sessions, writing essays, and responding to academic writing.
- ENGL 3720 BUSINESS AND TECHNICAL COMMUNICATION** 3-0-3  
Prerequisite: ENGL 2100  
Reporting of technical information in descriptions, instructions, memos, reports, and proposals. Emphasizes writing clear, persuasive prose and giving effective oral presentations.
- ENGL 4700 ADVANCED COMPOSITION** 3-0-3  
Prerequisite: ENGL 2100  
Advanced study of expository and argumentative techniques. Crosslisted as LING 4700.
- ENGL 4740 CREATIVE WRITING (POETRY)** 3-0-3  
Prerequisite: ENGL 2100  
Workshop format. Critique of poems by other students and professor through written statement and class discussion. Relevant textbook.

- ENGL 4750 CREATIVE WRITING (FICTION)** 3-0-3  
Prerequisite: ENGL 2100  
Workshop format. Critique of stories by other students and professor through written statement and class discussion. Relevant textbook.
- ENGL 4900, -10 INDEPENDENT STUDY** V-V-3  
Prerequisite: ENGL 2100 and ENGL 2121 and ENGL 2122  
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 TOPIC** 3-0-3  
Prerequisite: ENGL 2100 and ENGL 2121 and ENGL 2122  
Subject announced when course is offered.
- ENGL 5200U POSTCOLONIAL LITERATURE** 3-0-3  
Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121 and 2122 and 2131 and 2132)  
Introduction to postcolonial literature and critical theory, including works from Africa, India, and the Caribbean. Literary expressions of such topics as social transformation, migration, nationalism, gender difference.
- ENGL 5340U LITERATURE BY WOMEN** 3-0-3  
Prerequisite: ENGL 2100  
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 AFRICAN-AMERICAN LITERATURE** 3-0-3  
Prerequisite: ENGL 2100  
African-American literature, with emphasis on historical, philosophical, and cultural contexts. Topics such as the oral tradition, autobiographies, the Harlem renaissance, literary criticism and theory.
- ENGL 5360U AMERICAN NOVEL** 3-0-3  
Prerequisite: ENGL 2100  
American novel as a distinctive literary form.
- ENGL 5370U AMERICAN POETRY** 3-0-3  
Prerequisite: ENGL 2100  
American poetry in the context of technological developments, philosophical movements, and literary currents.
- ENGL 5380U SOUTHERN LITERATURE** 3-0-3  
Prerequisite: ENGL 2100  
Southern literature in its distinctive social and aesthetic contexts.

**ENGL 5400U BRITISH POETRY****3-0-3**

Prerequisite: ENGL 2100

Forms and themes in British poetry with emphasis on questions of British prosody and interpretation. Topics to include the sonnet, the lyric, the dramatic monologue. Time periods to reflect sixteenth through twentieth-century verse.

**ENGL 5410U BRITISH NOVEL****3-0-3**

Prerequisite: ENGL 2100

Origins and development of the British novel as a distinct literary form, examining the aesthetic, philosophical, and social concerns that inform selected works from the eighteenth, nineteenth, and twentieth centuries.

**ENGL 5440U EARLY ENGLISH LITERATURE, BEGINNINGS THROUGH 1603****3-0-3**

Prerequisite: ENGL 2100

English literature from its beginnings to the fifteenth century. 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, Chaucer, Langland, Gower). In alternate years, course will be devoted to Chaucer and his context.

**ENGL 5450U SHAKESPEARE I****3-0-3**

Prerequisite: ENGL 2100

Tragedies, comedies, and history plays drawn from *The Taming of the Shrew*, *The Merchant of Venice*, *The Merry Wives of Windsor*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Measure for Measure*, *Richard II*, *Henry IV*, *Henry V*, *Titus Andronicus*, *Julius Caesar*, *King Lear*, *Macbeth*, *Antony and Cleopatra*, and *Coriolanus*.

**ENGL 5460U SHAKESPEARE II****3-0-3**

Prerequisite: ENGL 2100

Tragedies, comedies, and history plays drawn from *The Comedy of Errors*, *Love's Labor's Lost*, *Romeo and Juliet*, *A Midsummer Night's Dream*, *Twelfth Night*, *Hamlet*, *Othello*, *The Winter's Tale*, *The Tempest*, *Pericles*, *Cymbeline*, *All's Well That Ends Well*, *The Two Gentlemen of Verona*, *King John*, *Timon of Athens*, *Richard III*, *Henry VI*, and *Henry VIII*.

**ENGL 5470U 17TH CENTURY BRITISH POETRY AND PROSE: 1603-1689****3-0-3**

Prerequisite: ENGL 2100

Non-dramatic literature from the death of Elizabeth I to the reign of William and Mary, with an emphasis upon the metaphysical and classical traditions. Typical authors include Donne, Jonson, Herbert, Herrick, Crashaw, Vaughan, Marvell, Milton, Bacon, Burton, Brown, Bunyan, and Dryden. In alternate years, course will be devoted to Milton and his context.

**ENGL 5500U 18TH CENTURY BRITISH POETRY AND PROSE****3-0-3**

Prerequisite: ENGL 2100

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 5520U 19TH CENTURY I: BRITISH ROMANTIC POETRY AND PROSE****3-0-3**

Prerequisite: ENGL 2100

Examination of the works and contexts of the major British Romantic writers, including Blake, Wordsworth, Coleridge, Byron, Keats, and Shelley.

- ENGL 5530U 19TH CENTURY II: BRITISH VICTORIAN POETRY AND PROSE** 3-0-3  
 Examination of the responses of novelists, poets, and prose writers to the issues of the era, including the conflict 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 5540U MODERNISM** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 British and American fiction and poetry of early twentieth century in context of continental developments; possible authors include Conrad, Proust, Joyce, Woolf, Yeats, Eliot, Faulkner.
- ENGL 5550U CONTEMPORARY LITERATURE** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 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 5560U BRITISH DRAMA: BEGINNINGS TO 1630** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 Medieval and renaissance non-Shakespearean drama; Marlowe, Jonson, Beaumont, Fletcher, Middleton, Webster; conventions and traditions of medieval and Tudor drama.
- ENGL 5570U BRITISH DRAMA II: 1630-1800** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 Restoration and eighteenth-century drama; pre-restoration, late Caroline drama; Ford, Shirley, Dryden, Lee, Otway, Etherege, Wycherley, Congreve, Goldsmith, Sheridan.
- ENGL 5650U BRITISH, AMERICAN, AND CONTINENTAL DRAMA: IBSEN TO THE PRESENT** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 Nineteenth and twentieth-century British, American, European plays including realism, Irish renaissance movements, expressionism, impressionism, theatre of the absurd; Ibsen, Shaw, Yeats, O'Casey, Wilde, Strindberg, O'Neill, Williams.
- ENGL 5660U ANCIENT EPIC AND DRAMA** 3-0-3  
 Prerequisite: ENGL 2100 (also recommended: all of ENGL 2121, 2122, 2131, 2132)  
 Major works of antiquity; Homer, Aeschylus, Sophocles, Euripides, and other significant figures.
- ENGL 5730U RHETORIC** 3-0-3  
 Prerequisite: ENGL 2100  
 History of rhetoric from Aristotle to the present with emphasis on rhetorical analysis of literature and other forms of discourse.
- ENGL 5760U LITERARY NONFICTION** 3-0-3  
 Prerequisite: ENGL 2100  
 History of the personal essay from Greek philosophers through contemporary authors. Reading and writing journals, letters, memoirs, biographies, autobiographies, 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 5800U ADVANCED GRAMMAR** 3-0-3  
 Prerequisite: ENGL 2100  
 Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as LING 5800U.

- ENGL 5820U HISTORY OF THE ENGLISH LANGUAGE** 3-0-3  
 Prerequisite: ENGL 2100  
 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 LING 5820U.
- ENGL 5830U HISTORY OF CRITICISM** 3-0-3  
 Prerequisite: ENGL 2100  
 Historical survey of the major theories and statements on the nature of literature and interpretation from the ancients through "New Criticism," examining concepts, philosophical assumptions, and historical figures including Plato, Aristotle, Longinus, Sidney, Dryden, Johnson, Schiller, Wordsworth, Coleridge, Arnold, Eliot, and Frye.
- ENGL 5840U INTRODUCTION TO LITERARY THEORY** 3-0-3  
 Prerequisite: ENGL 2100  
 Introduction to the major currents and figures in modern critical and literary theory since the "New Critics," examining the basic concepts, philosophical assumptions, and historical and ideological contexts of figures such as Lukacs, Benjamin, Adorno, Bakhtin, Derrida, Foucault, Barthes, Deleuze, Jauss, DeMan, Lacan, Cixous, Irigaray, Kristeva, and Homi Bhabha.
- 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 FRESHMAN ENGINEERING** 2-0-2  
 Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111  
 Orientation to the engineering process from problem formulation to the evolution of creative design. Surveys of the various fields of engineering, critical thinking, graphical communications, professional ethics, and fundamental concepts of engineering.
- ENGR 1170 ENGINEERING GRAPHICS** 2-3-3  
 Prerequisite: MATH 1111  
 Basic graphical concepts including projection theory, sketching, solid modelling, and computer aided design (CAD). Development and interpretation of drawing and specification for product realization.
- ENGR 2200 STATICS** 3-0-3  
 Prerequisite: PHYS 2211 and MATH 2072  
 Forces and moments; equilibrium of particles and bodies in two and three dimensions, introductory structural analysis, friction, centroids and application to loaded members.
- ENGR 2210 DYNAMICS** 3-0-3  
 Prerequisite: ENGR 2200 and MATH 2072  
 Kinematics of particles and rigid bodies; kinetics of particles and rigid bodies using work-energy and momentum methods in two-and-three dimensional motion.
- ENGR 3100 ELECTRICAL CIRCUIT ANALYSIS** 3-0-3  
 Prerequisite or corequisite: MATH 3411  
 Prerequisite: PHYS 2212  
 Analytical tools for passive networks. Kirchhoff's laws, mesh and node analysis, network theorems, DC and AC circuits, Laplace transform methods. Numerical simulation of circuits via SPICE.

- ENGR 3111 ELECTRONICS I** 3-2-4  
Prerequisite: ENGR 3100  
Introduction to P-N junction theory and the concepts of solid-state devices; development of the electrical characteristics of diodes and transistors; bipolar and field-effect amplifying circuits; operational amplifiers and analog systems.
- ENGR 3112 ELECTRONICS II** 3-2-4  
Prerequisite: ENGR 3111  
Operation and application of integrated circuits used in digital systems; gates, flip-flops, counters, registers and memory devices.
- ENGR 3220 MECHANICS OF MATERIALS** 3-0-3  
Prerequisite: ENGR 2200  
Internal effects and dimension changes of solids resulting from externally applied loads; shear and bending moment diagrams, analysis of stress and strain; torsion; beam deflection; column stability; thin-walled vessels with applications to problems.
- ENGR 3230 FLUID MECHANICS** 3-0-3  
Prerequisite: ENGR 2210 and ENGR 3301 and MATH 3411  
Fluid statistics; analysis of fluid motion using the continuity, momentum, and energy conservation relationships; introduction to viscous flow.
- ENGR 3301 THERMODYNAMICS** 3-0-3  
Prerequisite: PHYS 2211 and MATH 2072  
Basic concepts of thermodynamics; properties of substances; conservation principles; the first and second laws of thermodynamics; entropy; analysis of thermodynamic systems.
- ENGR 3302 THERMODYNAMICS II** 3-0-3  
Prerequisite: ENGR 3301  
Gas cycles; vapor cycles; thermodynamic relationships; thermodynamic behavior in real gases; non-reacting gas mixtures; thermodynamics of chemical reactions.
- ENGR 3320 HEAT TRANSFER** 3-0-3  
Prerequisite: ENGR 3230 and ENGR 3300  
Fundamental principles of heat transfer; steady and transient conduction in solids; introduction to convective heat transfer; thermal radiation.
- ENGR 3500 COMPUTER APPLICATIONS IN ENGINEERING** 2-2-3  
Prerequisites: CSCI 1360 and ENGR 2210 and ENGR 3100 and ENGR 3220  
Use of digital computers to solve selected engineering problems; emphasis on problem analysis and solution techniques.
- 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 3960 ENGINEERING INTERNSHIP** V-V-V  
Prerequisite: permission of instructor or department and ENGR 1170 and ENGR 3220  
Project will be determined, supervised and evaluated by the sponsor of the activity and the EIP director. Application and arrangement must be made through the department by mid-semester preceding the semester of internship.

**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.

**FILM – Film****FILM 3360 CRITICAL APPROACHES TO MASS CULTURE****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Examination of the theoretical and critical approaches to the study of various forms of cultural expression, including film television, popular literature, magazines, music, video, and radio. Applications of various critical methodologies to these forms. Crosslisted as COMM 3360.

**FILM 3400 HISTORY OF FILM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

History and development of cinema from the silent period to the present time. Crosslisted as THEA 3400.

**FILM 3490 TELEVISION THEORY AND CRITICISM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Television theory and criticism with special emphasis on television as a media form. Crosslisted as THEA 3490.

**FILM 3500 INTRODUCTION TO FILM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Emphasis on critical appreciation of film as an art form. Crosslisted as JOUR 3500 and THEA 3500.

**FILM 3510 FILM AND LITERATURE****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Relationship between film and literature with special emphasis on the adaptation of literature into film. Crosslisted as THEA 3510.

**FILM 5010U TOPICS IN FILM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Special topics in film announced when course is offered. For example, film genres, auteurs, critical approaches, and individual historical periods. Crosslisted as THEA 5010U.

**FILM 5020U FILM THEORY AND CRITICISM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Introduction to the history of film theory and criticism, including classical and contemporary film theories and their applications to film criticism. Examination of classical film aesthetics, form, language realism, and formalism as well as contemporary approaches to film criticism. Application of various theoretical perspectives to selected filmic texts. Crosslisted as THEA 5020U.

**FOUN — Education Foundations****FOUN 5010U EDUCATIONAL TESTS AND MEASUREMENT****3-0-3**

Beginning course in measurement which covers statistical methods, research design, and research problems. Students are provided experiences in the design, administration, and evaluation of teacher-made tests.

**FREN – French****FREN 1001 ELEMENTARY FRENCH I 3-0-3**

Prerequisite: eligibility for ENGL 1101

Elements of French grammar, pronunciation, and oral comprehension. Emphasis on communication skills and listening and reading strategies. Introduction to culture and civilization of the French-speaking world.

**FREN 1002 ELEMENTARY FRENCH II 3-0-3**

Prerequisite: eligibility for ENGL 1101 and FREN 1001

Continuation of FREN 1001. Elements of French grammar, pronunciation, and oral comprehension. Emphasis on communication skills and listening and reading strategies. Introduction to culture and civilization of the French-speaking world.

**FREN 2001 INTERMEDIATE FRENCH I 3-0-3**

Prerequisite: eligibility for ENGL 1101 and FREN 1002

Further development of reading, writing, listening, and speaking skills, with emphasis on oral proficiency.

**FREN 2002 INTERMEDIATE FRENCH II 3-0-3**

Prerequisite: eligibility for ENGL 1101 and FREN 2001

Continuation of FREN 2001. Further development of reading, writing, listening, and speaking skills, with emphasis on conversational French in simulated situations.

**FREN 3010 FRENCH CONVERSATION AND COMPOSITION I: CULTURE 3-0-3**

Prerequisite: FREN 2002

Development of oral proficiency and writing skills through group discussions and guided essays, with emphasis on Francophone culture.

**FREN 3020 FRENCH CONVERSATION AND COMPOSITION II:  
LITERATURE 3-0-3**

Prerequisite: FREN 2002

Development of oral proficiency and writing skills through group discussions and guided essays, with emphasis on literature.

**FREN 3030 ADVANCED GRAMMAR AND SYNTAX 3-0-3**

Prerequisite: FREN 3010 and FREN 3020

Advanced analysis and examination of the grammar and syntax of French, stressing written usage through written grammar exercises, translations from French to English, and essays.

**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 3110 FRENCH CIVILIZATION II 3-0-3**

Prerequisite: FREN 3010 and FREN 3020

Analysis of contemporary French society and survey of the Francophone world: geography, sociology, politics, the arts and sciences since 1789 (the French Revolution).

**FREN 3200 SPECIAL TOPICS IN FRENCH LITERATURE 3-0-3**

Prerequisite: FREN 3030

Subject announced at time course is offered. Includes surveys of nineteenth and twentieth century literature.



- FREN 3510, -20, -30 STUDY ABROAD IN FRANCE** 5-5-9  
 Prerequisite: FREN 1002  
 Summer session residence and study in France in conjunction with the Studies Abroad Program of the University System of Georgia. Intensive instruction in language and culture and participation in related activities.
- FREN 4010 SPECIAL GENRE** 3-0-3  
 Prerequisite: FREN 3200  
 French Literature. Subject announced at time of course offering.
- FREN 4020 SPECIAL AUTHOR** 3-0-3  
 Prerequisite: FREN 3200  
 French Literature. Subject announced at time of course offering.
- FREN 4900 INDEPENDENT STUDY** 1-0-1  
 Prerequisite: FREN 3200  
 Open to transient students only with permission of the department head.
- FREN 4990 LANGUAGE INTERNSHIP** V-V-1  
 Prerequisite: permission of instructor or department  
 Open to juniors or above. Individually designed project involving off-campus instruction at the elementary school level (grades 1-6). Three preparation hours per one hour classroom instruction. Supervision by sponsoring institution and French faculty member and coordinated with intern, faculty member, and classroom teacher. Must have minimum 2.75 overall GPA; 3.0 GPA in French.
- 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 1111 PHYSICAL GEOGRAPHY**  
 Topics covered include earth-sun relationships, weather, climate and climate classification, soils, bio-geography, vegetation, and landforms with emphasis on global patterns of distribution. GEOG1100 recommended.
- GEOG 2010 INTRODUCTION TO PHYSICAL GEOLOGY** 3-0-3  
 Prerequisite: 6 semester hours of science and GEOG 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 3100 MAN AND THE ENVIRONMENT** 3-0-3  
 Prerequisite: BIOL 1107  
 Open to sophomores or above. Considerations of the interactions between humans and the support systems of the earth which are essential to their existence. Crosslisted as BIOL 3100.

**GEOG 5530U HISTORICAL BIOGEOGRAPHY 3-0-3**

Prerequisite: GEOG 1111

Survey of interrelationships between the growth and dispersal of human populations, and of other living organisms, such as crop plants, domesticated animals, weeds, and microbes.

**GEOG 5870U HISTORICAL GEOGRAPHY IN NORTH AMERICA 3-0-3**

Geographic relationships in the exploration, settlement, and changing patterns of human occupancy of North America from the seventeenth century to the present.

**GEOL – Geology****GEOL 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 GEOG 2010.

**GEOL 3100 INTRODUCTION TO HISTORICAL GEOLOGY 3-0-3**

Prerequisite: eligibility for 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.

**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. 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

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 IN GERMANY** 3-0-3  
 Prerequisite: GRMN 1002  
 An 8-9 week summer semester's residence and study at the Friedrich Alexandar University of Erlangen, Germany. Intensive instruction in the German language and culture, 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.
- 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  
 Replaces HIST 1115 as a component of the university honors program. While the subject matter is the same as HIST 1115, 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: 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

Overview of the origins of humanity in East Africa and its subsequent spread throughout the continent and the world. Emphasis on the migration of people and culture of West Africa, transportation to the Americas, experiences of Africans in Mexico, South America, Central America and the Caribbean, and twentieth century movement towards a pan-Africanism in North America, the Caribbean, Europe, and Africa.

**HIST 2111 HISTORY OF AMERICA TO 1877**

3-0-3

Prerequisite: 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: ENGL 1101

A survey of United States history from reconstruction to the present.

**HIST 2950 INTERNSHIP**

V-V-(1-3)

Prerequisite: permission of instructor or department head

Open only to sophomores or above. An individually designed course involving off-campus study and research or work in an appropriate public agency or private business. Assignments normally designed to require the full semester for completion. Joint supervision by the sponsoring organization and the academic instructor. Graded on satisfactory/unsatisfactory basis (S/U). Student must have at least nine hours of history courses with a history grade point average of 2.5. Application and credit arrangements must be made through the department in advance, normally by mid-semester preceding the internship.

**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

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

A survey of Latin American history and culture since 1850. Examines the causes and consequences of structural instability in Latin America today.

**HIST 3130 HISTORY OF AFRICA TO 1800**

3-0-3

African history and culture from human origins through the seventeenth century. Includes ancient civilizations of the Nile valley as well as eastern, southern, and western Africa.

**HIST 3140 HISTORY OF AFRICA SINCE 1800**

3-0-3

African history with emphasis on the political, economic, social, and cultural processes of the last two centuries with some particular attention to the emergence of new states and nations, and their challenges as they enter the twenty-first century.

**HIST 3200 TRADITIONAL CHINA**

3-0-3

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** 3-0-3  
History of China from the nineteenth century to the present, with emphasis on political, social, economic, and intellectual developments.
- HIST 3220 HISTORY OF JAPAN** 3-0-3  
History of Japan from earliest times to present, with primary emphasis on its emergence as a world power since the late nineteenth century.
- HIST 3230 HISTORY OF THE MIDDLE EAST** 3-0-3  
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 3290 MEDIEVAL RUSSIA** 3-0-3  
Economic, social, and political development of the Russian state from its foundation in the ninth century through its modernization by Peter the Great in the early eighteenth century.
- HIST 3300 MODERN RUSSIA** 3-0-3  
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 3320 FRANCE 1660-1783** 3-0-3  
French history from the reign of Louis XIV to the eve of the French Revolution.
- HIST 3330 MODERN GERMANY** 3-0-3  
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** 3-0-3  
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 3420 ANCIENT HISTORY** 3-0-3  
Early civilizations of the middle east, the Greek states, the Roman republic and empire, with emphasis on the social, political, and cultural contributions.
- HIST 3440 EUROPE IN THE MIDDLE AGES** 3-0-3  
Survey of major political, economic, and cultural developments from 300-1400.
- HIST 3460 THE RENAISSANCE AND REFORMATION** 3-0-3  
A study of major political, cultural, economic, and religious developments in Europe from 1400-1648.
- HIST 3480 EUROPE IN THE 19TH CENTURY** 3-0-3  
The social, political, and intellectual directions of European history from the Congress of Vienna to the end of the nineteenth century.
- HIST 3490 EUROPE IN THE 20TH CENTURY** 3-0-3  
Major developments in Europe since 1900.
- HIST 3510 POPULAR CULTURE IN THE U.S.** 3-0-3  
Examination of the major trends in the news media, popular literature, entertainment, and recreational activities in the United States.

**HIST 3570 AMERICAN MILITARY HISTORY****3-0-3**

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**

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**

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**

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**

Prerequisites: HIST 2111 and HIST 2112

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**

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**

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**

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**

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**

Prerequisites: HIST 2111 and 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  
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  
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. Crosslisted as ANTH 3800 and PBHS 3800.
- HIST 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. Crosslisted as ANTH 3820 and PBHS 3820.
- HIST 3900 AFRICAN-AMERICAN HISTORY TO 1865** 3-0-3  
Prerequisites: HIST 2111 and HIST 2112  
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  
Prerequisites: HIST 2111 and HIST 2112  
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 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 4500 HISTORICAL METHODS** 2-2-3  
Introduction to the nature and methods of historical research, treating problems of investigation, data organization, and writing through discussion and actual research experience. Required of all history and public history majors.
- HIST 4811, -12 INDEPENDENT STUDY IN NON-WESTERN HISTORY** 3-0-3  
Prerequisite: HIST 4500  
Available only by special arrangement with the history department, made in advance. Ask in the department for specific information.
- HIST 4831, -32 INDEPENDENT STUDY IN EUROPEAN HISTORY** 3-0-3  
Prerequisite: HIST 4500  
Available only by special arrangement with the history department, made in advance. Ask in the department for specific information.
- HIST 4851, -52 INDEPENDENT STUDY IN AMERICAN HISTORY** 3-0-3  
Prerequisite: HIST 4500  
Available only by special arrangement with the history department, made in advance. Ask in the department for specific information.

**HIST 4871, -72 INDEPENDENT STUDY IN PUBLIC HISTORY****3-0-3**

Prerequisite: HIST 4500

Available only by special arrangement with the history department, made in advance. Ask in the department for specific information. Crosslisted as PBHS 4871, -72.

**HIST 4900 SEMINAR IN NON-WESTERN HISTORY****3-0-3**

Prerequisite: HIST 4500

Detailed analysis of a specific problem, theme, or topic in non-western history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

**HIST 4910 SEMINAR IN RUSSIAN HISTORY****3-0-3**

Prerequisite: HIST 4500

Detailed analysis of a specific problem, theme, or topic in Russian history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

**HIST 4920 SEMINAR IN EUROPEAN HISTORY****3-0-3**

Prerequisite: HIST 4500

Detailed analysis of a specific problem theme, or topic in European history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

**HIST 4930 SEMINAR IN AMERICAN HISTORY****3-0-3**

Prerequisite: HIST 4500

Detailed analysis of a specific problem, theme, or topic in American history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

**HIST 4950 PROFESSIONAL INTERNSHIP****V-V-(1-3)**

Prerequisite: HIST 4500

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 4960 AMERICAN HISTORIOGRAPHY****3-0-3**

A study of the writing of American history with emphasis on the historical philosophies and interpretations of the major schools of thought as well as individual historians.

**HIST 4970 EUROPEAN HISTORIOGRAPHY****3-0-3**

A study of the writing of history in the western cultural tradition, with an emphasis on the historical philosophies, interpretations, and problems raised by major modern historians.

**HIST 4990 SENIOR THESIS IN HISTORY****0-6-3**

Prerequisite: HIST 4500

Open only to seniors. Directed research under the supervision of a permanent member of the history department. Application to the academic affairs committee of the history department by mid-term of semester (excluding summer) before enrollment in course. Completed thesis submitted four weeks prior to end of semester, and oral presentation to the history department faculty. If the department faculty approve the completed thesis for honors, the degree designation on the student's transcript will be noted "Honors in History." Consult the department office for



details. Students must have completed 15 semester hours of upper division history courses, including HIST 4500, and have a 3.5 grade point average in all history courses. May not be counted in the 27 hours required for the major. This course meets the "honors in the major" component for students in the university honors program.

**HIST 5300U HISTORY OF RUSSIAN AND SOVIET FOREIGN POLICY 3-0-3**

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**

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 5470U FRENCH REVOLUTION AND NAPOLEON 3-0-3**

Background and events of the French Revolution and the career of Napoleon, considering various and different historical interpretations.

**HIST 5480U TOPICS IN EUROPEAN HISTORY 3-0-3**

Selected topics in European history. May be repeated as topics vary.

**HIST 5500U TOPICS IN BRITISH HISTORY 3-0-3**

Selected topics in the history of Great Britain and Ireland. May be repeated as topics vary.

**HIST 5510U HISTORY OF NORTH AMERICAN INDIANS 3-0-3**

Investigation of the aboriginal cultures of North America from the Arctic to the Rio Grande, including origins, distribution, ecology, and interrelationships, past through present.

**HIST 5540U TOPICS IN U.S. FOREIGN RELATIONS 3-0-3**

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**

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**

Prerequisites: HIST 2111 and 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**

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 5640U TOPICS IN THE HISTORY OF TECHNOLOGY AND CULTURE 3-0-3**

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**

Prerequisites: HIST 2111 and 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 5700U AMERICAN MATERIAL CULTURE** 2-1-3  
Prerequisite: permission of instructor or department  
Introduction to the study of North American and Caribbean culture, ordinarily focused on the eighteenth and nineteenth centuries. Architecture, cemeteries, landscape, dress, music, art, foodways, status, gender, and ethnic identifiers may provide examples. Crosslisted as ANTH 5700U and PBHS 5700U.
- HIST 5720U HISTORICAL ARCHAEOLOGY** 3-0-3  
Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820  
The historical archaeology of the new world from the first arrival of Europeans and Africans to about 1800. Attention focused on the south and the Caribbean, but other frontier contexts may also be included. Emphasis given to anthropological archaeology as a perspective for the writing of history and as a sub-field within public history. Crosslisted as ANTH 5720U and PBHS 5720U.
- HIST 5730U FIELDWORK IN HISTORICAL ARCHAEOLOGY** 0-12-6  
Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820  
Application of archaeological methods to a specific field project. Excavation techniques, surveying and map making, data collecting and recording, and the interpretation of archaeological data. May be repeated for credit. Crosslisted as ANTH 5730U and PBHS 5730U.
- HIST 5740U PRACTICUM IN ARCHAEOLOGY** 3-0-3  
Prerequisite: HIST 3800 or PBHS 3800 or ANTH 3800  
Application of analytical techniques to a specific research problem. Individual research requiring artifact analysis, techniques from anthropological history, use of computer technologies, curation or conservation of archaeological data. May be repeated as topics vary. Crosslisted as ANTH 5740U and PBHS 5740U.
- HIST 5750U FOLKLIFE** 2-2-3  
Prerequisite: ANTH 1102  
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. Crosslisted as ANTH 5750U and PBHS 5750U.
- HIST 5770U ORAL HISTORY** 1-4-3  
Prerequisite: HIST 4500  
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. Crosslisted as PBHS 5770U.
- HIST 5800U AMERICAN ARTS IN HISTORICAL PERSPECTIVE** 3-0-3  
Survey of American visual arts including painting, sculpture, architecture, and the decorative arts. Examines artistic material culture as art and as a means to critical understanding of American life. Crosslisted as PBHS 5800U.
- HIST 5810U TOPICS IN ARCHITECTURAL HISTORY** 2-1-3  
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. Crosslisted as PBHS 5810U.

**HIST 5890U TOPICS IN PUBLIC HISTORY****V-V-3**

Special topic in the field of public history defined by the instructor. Taught as a colloquium or seminar. Crosslisted as PBHS 5890U.

**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 five hours counted among the 40 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 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 1111

Emphasis on basic patient care skills common to all health professions. Patient and health practitioner safety is emphasized in class laboratory exercises. Crosslisted as NURS 1200.

**HLPR 2000 INTRODUCTION TO RESEARCH IN THE HEALTH PROFESSIONS****2-0-2**

Prerequisite: ENGL 1102 and 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 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.

**HLPR 4200 INTERDISCIPLINARY HEALTH PROFESSIONS SEMINAR****3-0-3**

Prerequisite: MATH 2200 and either HLPR 2000 or DHED 3300

Open only to seniors in health professions programs. Interdisciplinary analysis of health care issues and research.

**HONS – Honors****HONS 2000 HONORS TOPICS IN GLOBAL PERSPECTIVES****(2-0-2) or (3-0-3)**

Prerequisite: admission to honors program; other prerequisites 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.

**HSCA – Health Services Administration****HSCA 3601 HEALTH CARE FINANCE I****3-0-3**

Introduction to health service organization financial statements, basic managerial accounting practices, forms of business organization, time value of money, and reimbursement methods in health care.

- HSCA 3602 HEALTH CARE FINANCE II** 3-0-3  
Prerequisite: HSCA 3601  
Valuation concepts, cost of capital, capital budget analysis, risk, working capital management, financial statement analysis, and forecasting.
- 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 HEALTH CARE ADMINISTRATION** 3-0-3  
Administrative theories and concepts in health service organizations and systems.
- HSCA 4630 HEALTH INFORMATION SYSTEMS** 3-0-3  
Role and development of information systems in health programs. Emphasis on information based planning models, sources of health related data, and utilization of data for decision making.
- HSCA 4640 MANAGED CARE CONCEPTS** 3-0-3  
Overview of managed health care plans and systems. Emphasis on provider and payor sponsored systems, methods of financing and reimbursement, and common operational issues.
- 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 4901, -2 HEALTH SCIENCE PRACTICUM IN LONG TERM CARE I AND II** V-V-3  
Prerequisite: permission of instructor or department  
Two semesters (6 hours) of on-site experience under tutelage of licensed nursing home administrator. Development of philosophy integrating clinical and administrative aspects of long term care.
- HSCA 4920 HEALTH SERVICES ADMINISTRATION PRACTICUM** V-V-4  
Prerequisite: permission of instructor or department  
On-site experience in health services administration.
- HSCA 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.
- HSCC – Health Science Core**
- HSCC 2110 HEALTH AND HUMAN DEVELOPMENT** 3-0-3  
Analysis of critical stages in human development from the perspective of health enhancement and disease prevention.
- HSCC 3000 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 3010 HEALTH COMMUNICATION STRATEGIES** 2-0-2  
Various methods and techniques for providing health information and fostering communication among health service providers, payers, and consumers.

- HSCC 3120 HEALTH POLICY AND LAW** 3-0-3  
Overview of health policy-making process and legal environment of health care. Issues pertinent to policy deliberation, formation, evaluation, and statutory and administrative law.
- 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 4010 HEALTH PLANNING AND MARKETING** 4-0-4  
Prerequisite: HSCC 3000 and HSCC 3140  
Study of health planning framework and the investigation of implementation, marketing, and evaluation processes.
- HSCG – Health Science Gerontology**
- HSCG 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.
- HSCG 5510U HEALTHY AGING** 3-0-3  
Principles of holistic aging: spiritual, social, emotional, occupational, physical, and motivational needs of the elderly.
- HSCG 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.
- HSCP – Health Science Public Health**
- HSCP 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.
- HSCP 3720 ETHICAL THEORIES AND MORAL ISSUES IN PUBLIC 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 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 3770 HEALTH/SEXUALITY EDUCATION** 3-0-3  
Investigation of human sexuality and its effects on health.
- HSCP 3780 HEALTH AND DRUG EDUCATION** 2-0-2  
Investigation of legal and illegal drugs including chemical dependency, abuse, physiological and psychological effects, rehabilitation methods, and costs to society.

- HSCP 3790 HEALTH/FITNESS MANAGEMENT** 3-0-3  
Art and science of managing health, wellness, and fitness centers.
- HSCP 4000 INDEPENDENT STUDY IN HEALTH SCIENCE** V-V-3  
Prerequisite: permission of instructor or department  
Independent study in an area of interest in health.
- HSCP 4900 HEALTH SCIENCE PRACTICUM** V-V-5  
Prerequisite: permission of instructor or department  
On-site experience in the student's area of interest.
- HSCP 5550U NUTRITION** 3-0-3  
Basic concepts of nutrition as major component to the enhancement of health.
- HSCP 5700U ENVIRONMENTAL HEALTH ISSUES** 3-0-3  
Historical, contemporary, and prospective environmental factors that impact public health status.
- HUMN – Humanities**
- HUMN 2960 FOREIGN LANGUAGE AND CULTURE** V-V-(1-15)  
Prerequisite: permission of the dean of the College of Arts and Sciences  
Offered as part of a study abroad or global studies program. Instruction in language and/or culture of a foreign country or people. Crosslisted as SSCI 2960.
- JOUR – Journalism**
- JOUR 3270 JOURNALISM LAB** 0-3-1  
Prerequisite: ENGL 1102  
Practical experience in journalism through work on approved campus publications. Only one hour of credit may be earned per term. Repeatable up to 3 hours.
- JOUR 3430 JOURNALISTIC WRITING AND EDITING** 3-0-3  
Prerequisite: ENGL 2100  
Techniques of modern journalism; emphasis on writing and editing for newspapers and magazines.
- 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 2201 or PHIL 2251  
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  
Prerequisite: JOUR 3430  
A seminar on the impact of the media on the world today. Emphasis on rights and responsibilities of journalists, censorship, media control, propaganda and other current issues.
- 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.
- LING – Linguistics**
- LING 4700 ADVANCED COMPOSITION** 3-0-3  
Prerequisite: ENGL 2100  
An understanding of the complex interaction of form and content when writing prose. Developing an individual voice along with cultural context, audience awareness, and meaning. Crosslisted as ENGL 4700.
- LING 5000U TOPICS IN LINGUISTICS** 3-0-3  
Prerequisite: ENGL 2100  
Seminar in topics of theoretical and applied linguistics. Course may be taken more than once for credit as topics change.

- LING 5800U ADVANCED GRAMMAR** 3-0-3  
 Prerequisite: ENGL 2100  
 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  
 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.
- LMUG – Library Media**
- LMUG 3000 INTRODUCTION TO MEDIA PROFESSIONS** 2-2-2  
 Examination of the role, functions and services of different types of libraries and information centers including directed field experiences.
- LMUG 3100 REFERENCE SOURCES** 3-2-3  
 Basic reference sources, electronic sources, searching strategies, and directed field experiences.
- LMUG 3200 CATALOGUING AND CLASSIFICATION** 3-2-3  
 Basic principles of cataloguing and classification of multi-media materials combined with practical experience.
- LMUG 4100 MEDIA SELECTION** 3-1-3  
 Selection, evaluation and utilization of various types of media, based on fundamental principles and objectives. Includes field experiences.
- LMUG 4200 ADMINISTRATION OF INFORMATION CENTERS** 3-2-3  
 Prerequisite: LMUG 3000 and LMUG 3100 and LMUG 3200 and LMUG 4100  
 Study of organization and administration of all types of information centers. Includes field experiences. Concurrent enrollment in LMUG 4250 recommended.
- LMUG 4250 MEDIA INTERNSHIP** 1-6-4  
 Prerequisite: LMUG 3000 and LMUG 3100 and LMUG 3200 and LMUG 4100  
 Corequisite: LMUG 4200  
 Supervised experiences in library/media center, or other appropriate setting.
- 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.
- 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 5940U TEACHING OF MIDDLE SCHOOL/GENERAL MATHEMATICS** 3-0-3  
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 ALEGBRA** 3-0-3  
Prerequisite: placement according to CPE 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 CPE score  
Rational expressions, factoring, linear equations and inequalities, quadratic equations, word problems, graphs of linear functions, rational exponents, and radicals.
- MATH 1111 COLLEGE ALGEBRA** 3-0-3  
Prerequisite: Students must satisfy one of the following: (a) fulfillment of the CPC and a score of at least 420 on the SAT math; (b) a passing grade on the math component of the CPE; (c) successful exit from MATH 0099.  
Placement Recommendations: Some students who satisfy the prerequisites 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.  
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 1113 PRE-CALCULUS MATHEMATICS** 3-0-3  
Prerequisite: MATH 1111  
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** 4-0-4  
Prerequisite: MATH 1113  
Functions and limits; the derivative and its applications, antidifferentiation; the definite integral and applications; exponential and logarithmic functions.
- MATH 1950 APPLIED MATH FOR NON-SCIENCE MAJORS** 3-0-3  
Prerequisite: MATH 1111  
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 multi-variate differentiation.
- MATH 2072 CALCULUS II** 4-0-4  
Prerequisite: MATH 1161  
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** 4-0-4  
Prerequisite: MATH 2072  
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  
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 1111  
Measures of central tendency and dispersion; probability distributions; inferences concerning means and proportions; goodness of fit; correlation; linear regression.
- MATH 2252 COMPUTATIONAL METHODS IN STATISTICS** 3-0-3  
Prerequisite: MATH 2200 and either CSCI 1050 or CSCI 1301  
Statistical programming with Minitab and SAS software, including data analyses involving ANOVA, multiple regression, nonparametric statistics. Crosslisted as CSCI 2252.
- MATH 2900 SPIRIT AND STRUCTURE OF MATHEMATICS** 3-0-3  
Prerequisite: MATH 1111  
Designed to portray the history, philosophy, and aesthetics of mathematics, and to develop an appreciation of the role of mathematics. Topics include logic, set theory, problem solving, number systems, statistics, probability, geometry.
- MATH 3000 INTRODUCTION TO MATHEMATICAL PROOF** 3-0-3  
Prerequisite: MATH 2072  
Elementary logic, set theory, functions and relations, methods of proof including induction, and selected topics from major areas of mathematics.
- MATH 3110 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 3211 PROBABILITY AND MATHEMATICAL STATISTICS I** 3-0-3  
Prerequisite: MATH 2072  
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.
- MATH 3222 PROBABILITY AND MATHEMATICAL STATISTICS II** 3-0-3  
Prerequisite: MATH 3211  
Analysis of variance; nonlinear and multiple regression; chi-square tests for categorical data; nonparametric methods; Bayesian inference; use of statistical packages to analyze data sets.
- MATH 3251 PROBABILITY AND COMBINATORICS** 3-0-3  
Corequisite: MATH 3211  
Permutations and combinations; binomial coefficients; distributions of random variables; independence and conditional probability; distributions of functions of random variables such as expectation, variance and moment-generating functions; Central Limit Theorem; estimation; tests of statistical hypotheses; conditional and marginal distributions; multivariate distributions.
- 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  
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 3460 INTRODUCTION TO OPERATIONS RESEARCH** 3-0-3  
Corequisites: MATH 2160 and MATH 3211  
Topics in operations research selected from linear programming, project management, decision analysis, queueing theory, simulation, dynamic programming, scheduling theory.
- MATH 3480 OPTIMIZATION AND GRAPH THEORY** 3-0-3  
Corequisite: MATH 2160 and MATH 3211  
Topics in operations research selected from nonlinear programming, network analysis, Markhov chains, game theory, 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 MATH FOR ELEMENTARY SCHOOL TEACHERS**

2-3-3

Prerequisite: MATH 2900

Mathematics in the K-6 curriculum, with emphasis on appropriate methods of teaching for understanding through activity-based and problem-solving experiences. Emphasis on communication and connections; frequent use of a wide range of manipulatives to embody concepts in arithmetic and whole numbers, fractions and decimals; geometry and measurement. Directed field experience and required laboratory.

**MATH 3932 TEACHING OF MIDDLE SCHOOL/GENERAL MATHEMATICS**

2-3-3

Prerequisite: MATH 3911

The teaching of traditional topics such as fractions, decimals, percentage, measurement (especially the metric system), informal geometry, algebraic structures, probability and statistics. Emphasis on cooperative learning in an activity-based, problem-solving environment; incorporation of drill and practice in necessary skills with appropriate games and laboratory exercises. Directed field experience and required laboratory.

**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

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 COMPLEX VARIABLES**

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: MATH 3222

Study of topics related to a career in actuarial science.

**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)

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.

**MATH 4900 SPECIAL TOPICS****V-V-(1-3)**

Prerequisite: announced with the topic

Special topics of current interest in upper-level mathematics.

**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 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.

**MEDT – Medical Technology****MEDT 3000 INTRODUCTION TO MEDICAL LABORATORY SCIENCE****1-0-1**

Corequisite: MEDT 3001

Open only to medical technology majors. Role of the medical technologist as member of health care team. Basic knowledge of clinical laboratory science including content common to several discipline areas, literature research, and basic laboratory mathematics.

**MEDT 3001 INTRODUCTION TO MEDICAL LABORATORY METHODS****1-3-2**

Corequisite: MEDT 3000

Laboratory course covering basic skills common to all areas of the medical laboratory. Topics include principles of quality assurance, microscopy, basic principles of instruments, staining techniques, serologic testing and pipetting.

**MEDT 3011 FOUNDATIONS OF MEDICAL LABORATORY SCIENCE****1-2-2**

Prerequisite: MLT certification and admission to the program

Role of the medical technologist as a member of health care team. Basic knowledge of clinical laboratory science. Topics include content common to several discipline areas, literature research, basic laboratory mathematics, basic laboratory skills.

**MEDT 3100 URINALYSIS AND BODY FLUIDS****2-3-3**

Open only to medical technology majors. Qualitative and quantitative study of the clinical and microscopic constituents of body fluids and the clinical significance of test results.

- MEDT 3110 URINALYSIS AND BODY FLUIDS** 2-0-2  
Prerequisite: admission to MT Program  
Qualitative and quantitative study of the chemical and microscopic constituents of urine and other body fluids. Clinical significance of test results.
- MEDT 3200 CLINICAL MICROBIOLOGY** 4-4-5  
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.
- MEDT 3210 CLINICAL MICROBIOLOGY** 4-0-4  
Prerequisite: admission to MT Program  
The relationship of bacteria, mycobacteria, spirochaetes, and mycoplasmas to human disease. Emphasis on the isolation and identification of bacteria responsible for human disease.
- MEDT 3300 CLINICAL HEMATOLOGY AND HEMOSTASIS** 3-4-4  
Open only to medical technology majors. Qualitative and quantitative study of the formed elements of blood including the complete blood count, specialized test procedures, and the basic principles of hemostasis and blood coagulation.
- MEDT 3310 CLINICAL HEMATOLOGY AND HEMOSTASIS** 3-0-3  
Prerequisite: admission to MT Program  
Qualitative and quantitative study of the formed elements of blood including the complete blood count, specialized test procedures, and the basic principles of hemostasis and blood coagulation.
- MEDT 3400 CLINICAL IMMUNOHEMATOLOGY** 2-3-3  
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.
- MEDT 3410 CLINICAL IMMUNOHEMATOLOGY** 2-0-2  
Prerequisite: admission to MT Program  
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.
- MEDT 3501 CLINICAL CHEMISTRY I** 3-4-4  
Open only to medical technology majors. Physiological principles, methodologies and clinical significance of biochemicals and elements found in body fluids.
- MEDT 3502 CLINICAL CHEMISTRY II** 2-0-2  
Prerequisite: MEDT 3501  
Advanced level topics in clinical chemistry.
- MEDT 3510 CLINICAL CHEMISTRY III** 3-0-4  
Prerequisite: admission to MT Program  
Physiological principles, methodologies and clinical significance of biochemicals and elements found in body fluids.
- MEDT 3600 CLINICAL INSTRUMENTATION** 2-3-3  
Prerequisite: permission of instructor or department  
Open only to medical technology majors. Principles and operation of medical laboratory instrumentation.

- MEDT 3610 CLINICAL INSTRUMENTATION** 2-0-2  
Prerequisite: admission to MT Program  
Principles and operation of medical laboratory instrumentation.
- MEDT 3700 CLINICAL IMMUNOSEROLOGY** 2-2-3  
Open only to medical technology majors. Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies.
- MEDT 3710 CLINICAL IMMUNOSEROLOGY** 2-0-2  
Prerequisite: admission to MT Program  
Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies.
- MEDT 3800 CLINICAL PARASITOLOGY** 0-3-1  
Open only to medical technology majors. Pathogenesis, life cycles, and laboratory identification of human parasites.
- MEDT 3900 CLINICAL MYCOLOGY AND VIROLOGY** 2-2-3  
Open only to medical technology majors. Pathogenesis, isolation, and identification of 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 4110 PHLEBOTOMY PRACTICUM** 0-V-1  
Prerequisite: permission of instructor or department  
Open only to medical technology majors. Structured clinical laboratory experience in phlebotomy.
- MEDT 4210 CLINICAL MICROBIOLOGY PRACTICUM** 0-V-2  
Prerequisite: MEDT 3200 and MEDT 3800 and MEDT 3900  
Structured clinical laboratory experiences in microbiology, parasitology, and mycology.
- MEDT 4310 CLINICAL HEMATOLOGY PRACTICUM** 0-V-2  
Prerequisite: MEDT 3300  
Structured clinical laboratory experience in hematology and hemostasis.
- MEDT 4410 CLINICAL IMMUNOHEMATOLOGY PRACTICUM** 0-V-2  
Prerequisite: MEDT 3400  
Structured clinical laboratory experience in transfusion medicine.
- MEDT 4510 CLINICAL CHEMISTRY PRACTICUM** 0-V-2  
Prerequisite: MEDT 3501 and MEDT 3502  
Structured clinical laboratory experience in automated and special chemistry.
- MEDT 4600 SENIOR SEMINAR** 3-0-3  
Prerequisite: all of HLPR 2000, MEDT 4110, 4210, 4310, 4410, 4510, 4610, 4710, 4810  
Advanced topics in clinical laboratory science, emphasizing analysis and presentation of multi-disciplinary case studies.
- MEDT 4610 CLINICAL URINALYSIS PRACTICUM** 0-V-1  
Prerequisite: MEDT 3100  
Structured clinical laboratory experience in urinalysis.

- MEDT 4710 CLINICAL IMMUNOSEROLOGY PRACTICUM** 0-V-1  
Prerequisite: MEDT 3700  
Structured clinical laboratory experience in serology.
- MEDT 4810 SPECIAL TOPICS PRACTICUM** 0-V-1  
Prerequisite: all of MEDT 3100, 3200, 3300, 3400, 3501, 3502, 3600, 3700, 3800, 3900  
Structured experiences in alternate clinical sites. Settings may include doctors, reference, and clinic laboratories.
- MEDT 4900 LABORATORY MANAGEMENT AND EDUCATION** 3-0-3  
Prerequisite or corequisite: all of MEDT 4110, 4210, 4310, 4410, 4510, 4610, 4710, 4810  
Fundamental concepts of laboratory management, operation, finance, managerial leadership, personnel administration, and educational principles for laboratory scientists.
- 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.
- MGSE – Middle Grades/Secondary Education**
- MGSE 2150 ADOLESCENT GROWTH AND DEVELOPMENT** 3-3-3  
Prerequisite: orientation to teaching module and CEUG 1010  
Developmental processes from onset of puberty to adulthood including directed observation.
- MGSE 3060 CURRICULUM AND METHODS (4-8)** 3-4-3  
Prerequisite: orientation to teaching module  
Prerequisite or corequisite: MGSE 2150  
Development of curricula and selection of instructional strategies and materials appropriate for 4-8 level. Directed field experiences.
- MGSE 3071 LANGUAGE ARTS THEORY AND PRACTICE** 3-2-3  
Prerequisite: admission to teacher education  
Methods, content, and materials focusing on literature and the communicative arts for adolescence. Directed field experiences.
- MGSE 3080 STUDENT AND PROGRAM EVALUATION** 3-2-3  
Prerequisite: admission to teacher education  
Standardized tests, evaluation methods, and best practices utilizing existing content and pedagogical software, internet resources, and technical writing. Directed field experiences and field based research.
- MGSE 3100 MIDDLE SCHOOL THEORY AND PRACTICE** 3-6-3  
Prerequisite: admission to teacher education  
History and purpose of middle school; characteristics of middle school learner, role of middle school teacher, and appropriate programs and methods including directed field experiences.
- MGSE 3351 SECONDARY SCHOOL CURRICULUM AND METHODS, GENERAL** 3-6-3  
Prerequisite: admission to teacher education and CEUG 1010  
Systematic observation, analysis of critical incidents, and examination of instructional models. Directed field experience includes two hours per day, M-F.



- MGSE 4090 CLASSROOM MANAGEMENT** 3-8-3  
Prerequisite: admission to teacher education  
Research knowledge base to create a well managed classroom and guide the behavior of middle grade children including field based placement.
- MGSE 4100 STUDENT TEACHING AND SEMINAR I** 2-0-6  
Prerequisite: admission to teacher education  
Corequisite: MGSE 4110  
Opportunities to use knowledge and skills in a supervised 4-5 public school setting.
- MGSE 4110 STUDENT TEACHING AND SEMINAR II** 2-0-6  
Prerequisite: admission to teacher education  
Corequisite: MGSE 4100  
Opportunities to use knowledge and skills in a supervised 6-8 public school setting.
- MGSE 4180 YOUNG ADULT LITERATURE** 3-0-3  
Prerequisite: admission to teacher education and MGSE 3071  
Significant literature and multimedia literary offerings appropriate for young adults.
- MGSE 4280 TEACHING LITERACY THROUGH READING IN THE CONTENT AREAS** 3-4-3  
Prerequisite: admission to teacher education  
Teaching literacy through reading in the content areas for adolescents. Directed field experiences.
- MGSE 4340 PHYSICAL SCIENCE THEORY AND PRACTICE (4-8)** 3-2-3  
Prerequisite: admission to teacher education  
Interpretation of physical science for middle grades with emphasis upon discovery process and other science teaching strategies. Field trips required.
- MGSE 4342 SOCIAL STUDIES THEORY AND PRACTICE (4-8)** 3-2-3  
Prerequisite: admission to teacher education  
Selected themes, problems, concepts, and organization of instruction for social studies skills and processes needed by middle grades learners.
- MGSE 4350 LIFE SCIENCE THEORY AND PRACTICE (4-8)** 3-2-3  
Prerequisite: admission to teacher education  
Interpretation of life science for middle grades with emphasis upon discovery process and other science teaching strategies. Field trips required.
- MGSE 4392 SECONDARY SCHOOL CURRICULUM AND METHODS, ENGLISH** 3-4-3  
Prerequisite: admission to teacher education and CEUG 1010 and MGSE 3351  
Middle and secondary school English curriculum with emphasis upon materials and methods including field experience.
- MGSE 4412 SECONDARY SCHOOL CURRICULUM AND METHODS, MATHEMATICS** 3-4-3  
Prerequisite: admission to teacher education and CEUG 1010 and MGSE 3351  
Materials and methods of teaching middle and secondary school mathematics including field experiences.

**MGSE 4442 CURRICULUM AND METHODS OF FOREIGN LANGUAGE EDUCATION****3-3-3**

Prerequisite: admission to teacher education and MGSE 3351

Middle and secondary school theory, methods, and materials appropriate for second language acquisition.

**MGSE 4472 SECONDARY SCHOOL CURRICULUM AND METHODS, SCIENCE****3-4-3**

Prerequisite: admission to teacher education and MGSE 3351 and CEUG 1010

Middle and secondary school science curriculum with emphasis upon materials and methods including field experiences.

**MGSE 4492 SECONDARY SCHOOL CURRICULUM AND METHODS, SOCIAL SCIENCE****3-4-3**

Prerequisite: admission to teacher education and CEUG 1010 and MGSE 3351

Materials and methods of teaching middle and secondary school social studies including field experiences.

**MGSE 4630 CLASSROOM MANAGEMENT****3-8-3**

Prerequisite: admission to teacher education

Provides research knowledge base to create a well managed classroom and guide the behavior of middle and secondary students. Field based placement.

**MGSE 4750 STUDENT TEACHING AND SEMINAR****2-V-(9-12)**

Prerequisite: admission to teacher education

Opportunities to use the knowledge and skills in a supervised 7-12 public school setting.

**MGSE 4811 INTERNSHIP I****0-V-6**

Prerequisite: permission of instructor or department

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

**MGSE 4812 INTERNSHIP II****0-V-6**

Prerequisite: permission of instructor or department and MGSE 4811

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

**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.

**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 1111 ELEMENTARY MUSIC THEORY I****2-2-2**

Prerequisite: MUSC 1110 or passing music theory entrance exam

Corequisite: MUSC 1130

Basic theoretical principles of music, including analysis, sightsinging, and ear training.

- MUSC 1112 ELEMENTARY MUSIC THEORY II** 2-2-2  
Prerequisite: MUSC 1111  
Corequisite: MUSC 1130  
A continuation of MUSC 1111 with emphasis on part writing of diatonic material up through seventh chords.
- MUSC 1130 INTRODUCTION TO KEYBOARD HARMONY** 0-2-1  
Prerequisite: permission of instructor or department  
Corequisite: MUSC 1111 or MUSC 1112  
Keyboard techniques which reinforce theoretical concepts covered in MUSC1111, including those skills needed to fulfill the piano proficiency exam.
- 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 2540 or MUSC 2560  
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 2010 UNDERSTANDING JAZZ** 2-0-2  
Non-technical survey of important jazz performers and styles.
- MUSC 2111 INTERMEDIATE THEORY I** 2-2-2  
Prerequisite: MUSC 1112  
Corequisite: MUSC 2130  
Continuation of MUSC 1112 with an emphasis on chromatic harmony and the introduction of binary and ternary formal structures.
- MUSC 2112 INTERMEDIATE THEORY II** 2-2-2  
Prerequisite: MUSC 2111  
Corequisite: MUSC 2130  
Continuation of MUSC 2111 with an emphasis on harmonic practices of the late nineteenth and twentieth centuries, including triads of higher tertian relationships, synthetic scalar materials, atonality, and twelve-tone technique.
- MUSC 2130 ADVANCED KEYBOARD HARMONY** 0-2-1  
Prerequisite: MUSC 1130  
Corequisite: MUSC 2111 or MUSC 2112  
Keyboard techniques which reinforce theoretical concepts covered in MUSC 2111, including those skills needed to fulfill the piano proficiency exam. Must be completed with a grade of C or higher in order to continue in the theory/keyboard harmony sequence.

- MUSC 2171 LYRIC DICTION I** 2-0-2  
Prerequisite: permission of instructor or department  
International phonetic alphabet and the phonetics of standard American English and Italian for singing.
- MUSC 2172 LYRIC DICTION II** 2-0-2  
Prerequisite: MUSC 2171  
Orientation of the phonetics of liturgical Latin, German and French for singing by means of the international phonetic alphabet.
- MUSC 2201 JAZZ IMPROVISATION I** 0-2-1  
Prerequisite: MUSC 1112  
Improvisation through study of scales, chords, melodic concepts, ear training and analysis.
- MUSC 2202 JAZZ IMPROVISATION II** 0-2-1  
Prerequisite: MUSC 2201  
Continuation of MUSC 2201.
- MUSC 2240 CLASS GUITAR** 0-2-1  
Prerequisite: permission of instructor or department  
Basic skills for guitar accompaniment of folk songs and popular music.
- MUSC 2270 CLASS VOICE** 0-2-1  
Prerequisite: 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.
- MUSC 2280 CLASS PIANO NON-MUSIC MAJORS** 0-2-1  
Prerequisite: permission of instructor or department  
Keyboard literature and techniques at the beginning and elementary levels. May be repeated for credit.
- MUSC 2360 BRASS METHODS** 0-2-1  
Open only to music majors. Principles of brass instrument performance and pedagogy.
- MUSC 2370 WOODWIND METHODS** 0-2-1  
Open only to music majors. Principles of woodwind performance and pedagogy.
- MUSC 2380 PERCUSSION METHODS** 0-2-1  
Open only to music majors. Principles of percussion instrument performance and pedagogy.
- MUSC 2390 STRING AND GUITAR METHODS** 0-2-1  
Open only to music majors. Principles of string and guitar performance and pedagogy.
- MUSC 2400 APPLIED MUSIC** 0-2-2  
Prerequisite: permission of instructor or department and MUSC 1400  
Corequisite: MUSC 2540 or MUSC 2560  
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 2500 PEP BAND** 0-2-1  
Group to provide spirit music at school athletic functions. May be taken for a credit a maximum of four times. Open to qualified students.
- MUSC 2510 CONCERT BAND** 0-2-1  
Group which rehearses and performs standard literature for symphonic band. Open to qualified students.
- MUSC 2520 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 2530 ARMSTRONG SINGERS** 0-2-1  
Corequisite: MUSC 2540  
Repertoire selected from vocal chamber literature including classic literature and jazz. Public performances each term. Membership open to all students by audition.
- MUSC 2540 CONCERT CHOIR** 0-3-1  
Repertoire selected from standard choral concert literature. Public performances each semester. Membership open to all students. Ability to read music desired, but not required.
- MUSC 2550 CHAMBER ENSEMBLE** 0-2-1  
Open to all qualified students in the performance media of brass, woodwind, strings, keyboard, and percussion.
- MUSC 2560 WIND ENSEMBLE** 0-3-1  
Prerequisite: permission of instructor or department  
Repertoire selection from standard wind ensemble literature. Public performances required.
- 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 2590 ORATORIO CHORUS** 0-2-1  
Repertoire from standard choral literature and larger works. Public performances each semester. Evening rehearsals.
- MUSC 2810 CONDUCTING** 2-0-2  
Prerequisite: MUSC 1112  
Open only to music majors. Conducting techniques and interpretation.
- MUSC 3120 FORM AND ANALYSIS** 2-0-2  
Prerequisite: MUSC 2112  
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** 3-0-3  
Materials and methods for teaching general music in the elementary classroom. Not open to music majors.
- MUSC 3300 MUSIC TEACHING IN LOWER SCHOOLS I** 2-0-2  
Open only to music majors. Analysis and evaluation of pedagogical approaches and materials for teaching general and vocal music in the lower school (K-12). Includes teaching practice.

- MUSC 3310 MUSIC TEACHING IN MIDDLE AND HIGH SCHOOL** 2-0-2  
Open only to music majors. Analysis and evaluation of pedagogical approaches and materials for teaching general music in the middle and high schools. Includes history of music education, design of curriculum and lesson planning, and teaching practice.
- MUSC 3320 MUSIC TEACHING IN LOWER SCHOOLS II** 2-0-2  
Prerequisite: MUSC 3300  
Continuation of MUSC 3310 with emphasis on the Orff, Kodaly, and DBME strategies in teaching elementary music. Includes teaching practice.
- MUSC 3330 BAND METHODS** 2-1-2  
Organization and development of school band ensembles and problems of teaching instrumental music. Includes a laboratory experience which simulates ensemble rehearsals.
- MUSC 3340 CHORAL AND GENERAL MUSIC METHODS IN SECONDARY SCHOOLS** 2-1-2  
Prerequisite: MUSC 2810 and one of MUSC 2360, 2370 or 2380  
Development of skills in teaching general music and organizing, teaching, and conducting choral music in secondary schools. Includes a laboratory experience which provides opportunities for students to teach general music lessons and conduct ensemble rehearsals.
- MUSC 3400 APPLIED MUSIC** 0-2-2  
Prerequisite: permission of instructor or department and passage of rising junior exam  
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 3510 CONCERT BAND** 0-2-1  
Prerequisite: four semesters of MUSC 2510  
Rehearsals and performances of standard literature for symphonic band.
- MUSC 3520 JAZZ ENSEMBLE** 0-2-1  
Prerequisite: four semesters of MUSC 2520  
Repertoire selected from vocal chamber literature including classic literature and vocal jazz. Public performances each term. Membership open to all students by audition.
- MUSC 3530 ARMSTRONG SINGERS** 0-2-1  
Prerequisite: four semesters of MUSC 2530  
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 CONCERT CHOIR** 0-3-1  
Prerequisite: four semesters of MUSC 2540  
Repertoire selected from standard choral concert literature. Public performances each term.
- MUSC 3550 CHAMBER ENSEMBLE** 0-2-1  
Prerequisite: four semesters of MUSC 2550  
Open to all qualified students in the performance media of brass, woodwind, strings, keyboard, and percussion.
- MUSC 3560 WIND ENSEMBLE** 0-3-1  
Prerequisite: four semesters of MUSC 2560  
Repertoire selection from the standard wind ensemble literature. Public performances required.

- MUSC 3610 ORCHESTRATION AND ARRANGING** 2-0-2  
Prerequisite: MUSC 2112  
Open only to music majors. Techniques of orchestration; arranging for instrumental and choral groups.
- MUSC 3710 MUSIC HISTORY I** 3-0-3  
Prerequisite: MUSC 1112 and MUSC 1100  
History of music in western civilization from origin to end of baroque era.
- MUSC 3720 MUSIC HISTORY II** 3-0-3  
Prerequisite: MUSC 1112 and MUSC 1100  
History of music in western civilization from classical era to present; influence of world music.
- MUSC 4110 COMPOSITION** V-V-V  
Prerequisite: MUSC 2112  
Open only to music majors. Musical composition. May be repeated for credit.
- MUSC 4120 COUNTERPOINT** 2-0-2  
Prerequisite: MUSC 2112  
Open only to music majors. Contrapuntal practices of eighteenth century music.
- MUSC 4160 TOPICS IN INSTRUMENTAL REPERTOIRE AND PEDAGOGICAL TECHNIQUES** 2-0-2  
Prerequisite: permission of instructor or department  
Open to juniors or above. Instrumental literature and teaching techniques from brass, guitar, percussion or woodwind instruments. May be repeated for credit as topics vary.
- 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 4230 CHORAL REPERTOIRE** 2-1-2  
Prerequisite: MUSC 2810  
Literature and related performance practice for school choral ensembles. Includes a laboratory experience which provides opportunities for students to teach the literature and apply performance-practice concepts in ensemble rehearsals.
- MUSC 4240 BAND REPERTOIRE** 2-1-2  
Prerequisite: MUSC 2810  
Literature and performance practice for school instrumental ensembles. Includes a laboratory situation to simulate an ensemble setting.
- MUSC 4250 PIANO 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 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 4280 MARCHING BAND TECHNIQUES** 2-0-2  
Prerequisite: MUSC 2810  
Organization and development of a school marching band, including drill writing, scoring, and rehearsal techniques.
- 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.
- MUSC 4320 SYMPHONIC MUSIC LITERATURE** 2-0-2  
Prerequisite: MUSC 1100  
Historical, stylistic, formal, and aesthetic features of symphonic music.
- MUSC 4400 APPLIED MUSIC** 0-2-2  
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.
- MUSC 4800 ADVANCED CHORAL CONDUCTING** 2-1-2  
Prerequisite: MUSC 2810 and MUSC 3120 and MUSC 3610 and successful completion of piano proficiency exam  
Advanced techniques in choral conducting. Includes a laboratory experience which provides opportunities for students to conduct ensemble rehearsals.
- MUSC 4810 ADVANCED INSTRUMENTAL CONDUCTING** 2-1-2  
Prerequisite: MUSC 2810 and MUSC 3120 and MUSC 3610 and successful completion of piano proficiency exam  
Open only to music majors. Advanced techniques for the instrumental conductor.
- MUSC 4890 SELECTED STUDIES IN MUSIC** V-V-(1-5)  
Prerequisite: permission of instructor or department  
Varied course offerings designed to meet special institutional and community needs. May be repeated for credit.
- MUSC 4900 DIRECTED INDIVIDUAL STUDY** V-V-(1-5)  
Prerequisite: permission of instructor or department  
Open only to music majors. Supervised individual research or study.
- MUSC 4910 INTERNSHIP** V-V-(1-5)  
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.
- NURS – Nursing**
- NURS 1200 MULTIDISCIPLINARY SKILLS IN HEALTH PROFESSIONS** 1-3-2  
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111  
Emphasis on basic patient care skills common to all health professions. Patient and health practitioner safety is emphasized in class laboratory exercises. Crosslisted as HLPR 1200.



- NURS 2241 NURSING AND HEALTH PROMOTION I** 3-0-3  
Prerequisite: permission of instructor or department  
Theoretical concepts that provide the foundation for professional nursing along with an introduction to health promotion.
- NURS 2260 HEALTH POLICY IN NURSING PRACTICE** 1-0-1  
Prerequisite or corequisite: NURS 2241 and HLPR 2000 and either HIST 1100 or POLS 1100  
Introduction to the health policy process as a therapeutic nursing intervention.
- NURS 3000 PROFESSIONAL ROLE TRANSITIONS: SOCIALIZATION** 4-0-4  
Prerequisite: admission to RN option program  
Socialization process through development of a conceptual and philosophical basis for professional and advanced nursing practice.
- NURS 3150 PROFESSIONAL ROLE TRANSITIONS: COMMUNICATION** 2-3-3  
Prerequisite: admission to RN option program  
Effective oral and written communication skills utilizing multimedia and technologic resources.
- NURS 3242 NURSING AND HEALTH PROMOTION II** 2-3-3  
Prerequisite: HLPR 1200 and NURS 2241 and NURS 2260  
Promotion of psychosocial health using communication strategies and interpersonal skills to provide a basis for therapeutic nursing interventions.
- NURS 3300 HEALTH ASSESSMENT FOR THE PROMOTION OF WELLNESS** 2-3-3  
Prerequisite: admission to RN option program  
Comprehensive health assessment of individuals using didactic and laboratory activities.
- NURS 3301 NURSING SKILLS I** 0-3-1  
Prerequisite: permission of instructor or department and NURS 2241 and HLPR 1200  
Corequisite: NURS 3320  
Therapeutic nursing interventions to achieve selected outcomes using a modular approach to promote self-directed and active learning.
- NURS 3302 NURSING SKILLS II** 0-3-1  
Prerequisite: NURS 3301  
Application of surgical asepsis and nursing care of the client and family in the perioperative setting.
- NURS 3310 NURSING AND HEALTH PROMOTION THROUGHOUT THE LIFESPAN** 3-3-4  
Prerequisite: admission to RN option program  
Therapeutic nursing interventions to promote health and prevent illness of individuals throughout the life cycle.
- NURS 3320 HEALTH ASSESSMENT OF THE WELL INDIVIDUAL** 2-3-3  
Prerequisite: permission of instructor or department and NURS 2241  
Corequisite: NURS 3242  
Application of techniques to assess the well individual. Variations and risk factors related to age, gender, and ethnic origin will be explored.
- NURS 3330 LEADERSHIP IN NURSING CARE** 1-3-2  
Prerequisite or corequisite: NURS 3242  
Leadership role of the professional nurse in the management of health care.

- NURS 3340 FAMILY HEALTH PROMOTION** 2-3-3  
Prerequisite or corequisite: NURS 3242 and NURS 3320  
Corequisite: NURS 3340L  
Theory based therapeutic nursing interventions for family health promotion.
- NURS 3350 HEALTH PROMOTION OF WOMEN AND CHILDREN** 4-6-6  
Prerequisite or corequisite: NURS 3360  
Prerequisite: NURS 3301 and NURS 3330 and NURS 3340  
Therapeutic nursing interventions to promote health and prevent illness of women and children.
- NURS 3360 HEALTH MAINTENANCE AND REHABILITATION** 4-9-7  
Prerequisite: NURS 3330 and NURS 3340  
Corequisite: NURS 3302  
Critical thinking and use of therapeutic nursing interventions with clients experiencing chronic health problems emphasizing continuity of care between, home, community and extended care settings.
- NURS 3450 HEALTH CARE AND FAMILIES** 2-3-3  
Prerequisite: NURS 3310  
Corequisite: NURS 3150  
Therapeutic nursing interventions for family health promotion utilizing home visit experience, nursing case management and community resources.
- NURS 3550 PATHOPHYSIOLOGY** 3-0-3  
Prerequisite: BIOL 2081 and BIOL 2082  
Physiologic changes and responses that produce signs and symptoms and the body's adaptive mechanisms to provide a rationale for preventive and therapeutic nursing interventions.
- NURS 4420 NURSING AND HEALTH RESTORATION** 5-12-9  
Prerequisite or corequisite: NURS 3350 and NURS 3360 and NURS 3550  
Health restoration of clients experiencing acute health problems.
- NURS 4430 HEALTH RESTORATION IN MENTAL HEALTH** 2-3-3  
Prerequisite or corequisite: NURS 3550  
Health restoration of clients with disruptions in mental health.
- NURS 4440 POPULATION FOCUSED NURSING** 2-9-5  
Prerequisite: NURS 4420 and NURS 4430  
Functioning as a beginning practitioner in population focused nursing care.
- NURS 4450 PROFESSIONAL NURSING PRACTICUM** 2-9-5  
Prerequisite: NURS 4420 and NURS 4430  
Leadership role of the professional nurse in selected clinical settings.
- NURS 4460 PROFESSIONAL NURSING SEMINAR** 2-0-2  
Prerequisite: permission of instructor or department  
Prerequisite or corequisite: NURS 4200, NURS 4440, NURS 4450  
Exploration of nursing trends and issues.
- NURS 4470 NURSING AND POPULATION FOCUSED PRACTICE** 2-9-5  
Prerequisite: completion of RN option courses  
The registered nurse learner as a beginning practitioner of population-focused nursing practice.

**NURS 4480 PROFESSIONAL NURSING PRACTICUM****2-9-5**

Prerequisite: completion of RN option courses

The study of the leadership role of the professional nurse. Emphasis is placed on current trends and issues which influence change in nursing practice.

**NURS 4490 TOPICS IN PROFESSIONAL NURSING****V-V-(1-2)**

The student, in consultation with the professor, selects a topic and submits a proposal for supervised independent study.

**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.

**PBHS – Public History****PBHS 3800 INTRODUCTION TO PUBLIC HISTORY****3-0-3**

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. Crosslisted as ANTH 3800 and HIST 3800.

**PBHS 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. Crosslisted as ANTH 3820 and HIST 3820.

**PBHS 4871, -2 INDEPENDENT STUDY IN PUBLIC HISTORY****3-0-3**

Prerequisite: HIST 4500

Available only by special arrangement with the history department, made in advance. Ask in the department for specific information. Crosslisted as HIST 4871, -2.

**PBHS 4980 INTERNSHIP IN PUBLIC HISTORY****V-V-(1-3)**

Prerequisite: HIST 4500

Off-campus study and research in an appropriate public or private agency or business. Supervision by the sponsoring organization and the academic instructor. May be repeated for credit. When graded on an S/U basis, credit only among electives. Must have at least nine additional hours of PBHS or PBHS cross-listed courses (with a minimum GPA of 3.0); an overall GPA of 2.5 (after completion of 72 semester hours); and an approved application.

**PBHS 5700U AMERICAN MATERIAL CULTURE****2-1-3**

Prerequisite: permission of instructor or department

Introduction to the study of North American and Caribbean culture, ordinarily focused on the eighteenth and nineteenth century. Architecture, cemeteries, landscape, dress, music, art, foodways, status, gender, and ethnic identifiers may provide examples. Crosslisted as ANTH 5700U and HIST 5700U.

**PBHS 5720U HISTORICAL ARCHAEOLOGY****3-0-3**

Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820

The historical archaeology of the new world from the first arrival of Europeans and Africans to around 1800. Attention focused on the south and the Caribbean, but other frontier contexts may also be included. Emphasis given to anthropological archaeology as a perspective for the writing of history and as a sub-field within public history. Crosslisted as ANTH 5720U and HIST 5720U.

- PBHS 5730U FIELDWORK IN HISTORICAL ARCHAEOLOGY** 0-12-6  
Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820  
Application of archaeological methods to a specific field project. Excavation techniques, surveying and map-making, data collecting and recording, and the interpretation of archaeological data. May be repeated for credit. Crosslisted as ANTH 5730U and HIST 5730U.
- PBHS 5740U PRACTICUM IN ARCHAEOLOGY** V-V-3  
Prerequisite: HIST 3820 or PBHS 3820 or ANTH 3820  
Application of analytical techniques to a specific research problem. Individual research requiring artifact analysis, techniques from anthropological history, use of computer technologies, curation or conservation of archaeological data. May be repeated as topics vary. Crosslisted as ANTH 5740U and HIST 5740U.
- PBHS 5750U FOLKLIFE** 2-2-3  
Prerequisite: ANTH 1102  
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. Crosslisted as ANTH 5750U and HIST 5750U.
- PBHS 5770U ORAL HISTORY** 1-4-3  
Prerequisite: HIST 4500  
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. Crosslisted as HIST 5770U.
- PBHS 5800U AMERICAN ARTS IN HISTORICAL PERSPECTIVE** 3-0-3  
Survey of American visual arts including painting, sculpture, architecture, and the decorative arts. Examines artistic material culture as art and as a means to critical understanding of American life. Crosslisted as HIST 5800U.
- PBHS 5810U TOPICS IN ARCHITECTURAL HISTORY** 2-1-3  
Study of 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. Crosslisted as HIST 5810U.
- PBHS 5830U HISTORIC PRESERVATION** 3-0-3  
Prerequisite: HIST4500 recommended  
Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics.
- PBHS 5850U MUSEUM STUDIES** 2-2-3  
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.
- PBHS 5870U HERITAGE TOURISM** 3-0-3  
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.
- PBHS 5890U TOPICS IN PUBLIC HISTORY** V-V-3  
Special topic in the field of public history defined by the instructor. Taught as a colloquium or seminar. Crosslisted as HIST 5890U.

**PEAT – Physical Education – Athletic Training****PEAT 2100 PREVENTION AND CARE OF SPORT INJURIES 2-1-2**

Foundations of assessment, evaluation, theory, and practice of prevention, treatment, and care of sports related injuries. Provides student with American Red Cross safety, CPR and first aid certification. ARC safety, CPR, and first aid certification and fee required.

**PEAT 3450 EVALUATION AND TREATMENT OF LOWER BODY INJURIES 3-0-3**

Prerequisite: PEAT 2100

Injury assessment procedures for the lumbar spine and lower extremities.

**PEAT 3460 EVALUATION AND TREATMENT OF UPPER BODY INJURIES 3-0-3**

Injury assessment procedures for the vertebral column, abdomen, and thorax.

**PEAT 4050 THERAPEUTIC MODALITIES AND REHABILITATION 3-0-3**

Prerequisite: PEAT 3450 and PEAT 3460

Physical basis and physiological effects of agents and modalities used in the treatment of athletic injuries. Emphasis on the principles of rehabilitation.

**PEAT 4400 PLANNING AND MANAGEMENT OF ATHLETIC TRAINING PROGRAM AND FACILITY 3-0-3**

Prerequisite: PEAT 3450 and PEAT 3460

Organizational and administrative components of an athletic training program pertaining to facility design, health care, financial management, training room management, and public relations.

**PEAT 4480 SEMINAR IN ATHLETIC TRAINING 3-0-3**

Prerequisite: PEAT 3450 and PEAT 3460

Selected topics in athletic training.

**PEAT 5350U FIELD EXPERIENCE IN ATHLETIC TRAINING: TRAINING ROOM 0-6-3**

Prerequisite: permission of instructor or department and PEAT 2100 and PEAT 3450 and PEAT 3460

Management and operation of the Armstrong Atlantic training room.

**PEAT 5360U FIELD EXPERIENCE IN ATHLETIC TRAINING: LAB SCHOOL 0-6-3**

Prerequisite: permission of instructor or department and PEAT 2100 and PEAT 3450 and PEAT 3460

Coverage of athletics at affiliated lab school.

**PEAT 5370U FIELD EXPERIENCE IN ATHLETIC TRAINING: CLINIC 0-6-3**

Development of skills and techniques of athletic training as associated with a sports medicine clinic.

**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 1010 LIFETIME FITNESS TRAINING 0-3-1**

Basic fitness concepts and their application to everyday life. Participation in an individualized program of aerobic activity.

- PEBC 1020 AEROBIC DANCE** 0-3-1  
A combination of exercise and dance steps to improve the cardiovascular system, muscular endurance, strength, and flexibility.
- PEBC 1070 TEAM SPORTS** 0-2-1  
Consists of two of the following sports: basketball, volleyball, soccer, and softball.
- PEBC 1080 BOWLING** 0-2-1  
Basic skills in bowling. Minimum of two games required per class period at student's expense. Must provide own transportation.
- PEBC 1090 ARCHERY** 0-2-1  
Basic skills in archery for recreational use. 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 1301 BASIC SWIMMING SKILLS** 0-3-1  
Skills and strokes for the student unfamiliar with or afraid of the water and who cannot swim.
- PEBC 1302 INTERMEDIATE SWIMMING** 0-2-1  
Six basic strokes, skills, endurance, and knowledge pertaining to safety in, on, or about water.
- PEBC 1350 BEGINNING SCUBA** 0-3-1  
Beginning recreational scuba diving activities in local aquatic environments. Additional fee is required. Must provide own transportation.
- PEBC 1380 WATER AEROBICS AND EXERCISE** 0-3-1  
Principles of cardiorespiratory fitness associated with aquatics and resistance training. No swimming skills required.
- PEBC 1401 ELEMENTARY TENNIS** 0-2-1  
Basic skills, rules, strategies, and practice for singles and doubles in tennis. Student must provide own racket and one can of new tennis balls.
- PEBC 1402 INTERMEDIATE TENNIS** 0-2-1  
Advanced techniques and knowledge of skills and strategy in tennis.
- PEBC 1450 BADMINTON** 0-2-1  
Basic skills, rules, strategies, and practice for singles and doubles.
- PEBC 1501 BEGINNING MODERN DANCE** 0-2-1  
Art of modern dance including technique, exercise, basic improvisation, dance positions, and locomotor movement.
- PEBC 1502 INTERMEDIATE MODERN DANCE** 0-2-1  
Continuation of PEBC 1501 with emphasis on dynamics, composition, and choreography.
- PEBC 1551 BASIC BALLET** 0-2-1  
A review of basic ballet steps, exercises, and stretches. Emphasis on body placement and practice in using steps in combinations.
- PEBC 1552 INTERMEDIATE BALLET** 0-2-1  
Advanced techniques and knowledge; refinement of ballet skills.
- PEBC 1580 JAZZ DANCING** 0-2-1  
Modern, lyrical, and hip hop forms of jazz, including fundamental techniques and choreography.

- PEBC 1601 BEGINNING GOLF** 0-2-1  
Basic techniques and instruction for the beginning golfer. Minimum of 9 holes of golf must be played outside of class at student's expense. Must provide 12 shag balls for class.
- PEBC 1602 INTERMEDIATE GOLF** 0-2-1  
Prerequisite: PEBC 1601 or permission of instructor  
Review and refinement of beginning skills, etiquette, and strategies of golf. Must provide own transportation to off-campus site.
- PEBC 2000 CONCEPTS OF FITNESS** 2-1-3  
Theoretical knowledge and practical experience in the principles, assessment, and development of fitness for living. Students will develop and implement personalized fitness programs.
- PEEC – Physical Education Elective**
- PEEC 2000 COMMUNITY FIRST AID AND CPR** 3-0-2  
The American Red Cross advanced course in safety and first aid and adult, child, and infant CPR. To receive a certification card, students must pay an administrative fee to the American Red Cross.
- PEEC 2180 OFFICIATING TEAM SPORTS** 2-2-2  
Rules, mechanics and ethics involved in officiating a variety of team sports activities. Students must provide own equipment appropriate to the sports and transportation for off-campus assignment.
- PEEC 3120 COACHING FOOTBALL** 3-0-2  
Instruction and practice in fundamental skills and team play. Minimum of two games must be scouted at student's expense.
- PEEC 3130 COACHING BASKETBALL** 3-0-2  
Instruction and practice in fundamental skills and team play, emphasizing methods and drills used by leading coaches. Minimum of two games must be scouted at student's expense.
- PEEC 3140 COACHING BASEBALL AND SOFTBALL** 3-0-2  
Instruction and practice in fundamental skills and team play, emphasizing methods and drills used by leading coaches. Minimum of two games must be scouted at students expense.
- PEEC 3150 COACHING VOLLEYBALL AND SOCCER** 3-0-2  
Rules and fundamental skills of volleyball and soccer, and individual development and application of successful coaching methods.
- PEEC 3200 HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER** 3-0-3  
Prerequisite: admission to teacher education  
Theory and current practice in the teaching of health and physical education at elementary school level including a directed field experience.
- PEEC 3330 LIFEGUARD TRAINING** 1-2-2  
Recognizing and responding to aquatic mishaps; pool health, sanitation, and management; spinal injury management; and CPR/PR.
- PEEC 3340 WATER SAFETY INSTRUCTOR** 2-2-2  
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.

- PEEC 4130 SPECIAL TOPICS IN PHYSICAL EDUCATION** 3-0-3  
Prerequisite: open to majors in health and physical education  
Research methods in health and physical education.
- PEEC 5580U PHYSICAL ACTIVITY AND THE OLDER ADULT** 3-0-3  
The impact of fitness activities in the lives of older adults focusing upon the physiological benefits associated with leading an active life and their effects upon the quality and quantity of life.
- PEHM – Physical Education - Health Major**
- PEHM 2281 HUMAN STRUCTURE AND FUNCTION I** 3-0-3  
Anatomy and physiology of the major body systems.
- PEHM 2282 HUMAN STRUCTURE AND FUNCTION II** 2-1-2  
Prerequisite: PEHM 2281  
Continuation of the study of the anatomical and physiological systems of the human body. Laboratory experiences for further exploration.
- PEHM 2283 KINESIOLOGY** 2-1-2  
Prerequisite: PEHM 2281  
Role of skeletal muscles in producing body movements through the application of the laws of mechanical physics.
- 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 2701 TEAM SPORT TECHNIQUES I** 3-0-3  
Analysis, demonstration, and application of basic skills and techniques necessary for instruction in flag/touch football, soccer, and softball.
- PEHM 2702 TEAM SPORT TECHNIQUES II** 3-0-3  
Analysis, demonstration, and application of basic skills and techniques necessary for instruction in basketball, speedball, and volleyball.
- PEHM 2900 TECHNOLOGY IN HEALTH AND PHYSICAL EDUCATION** 1-2-2  
Examination of visual technology and computers including their applications to the teaching of health and physical education.
- PEHM 3000 CURRENT HEALTH EDUCATION ISSUES** 3-0-3  
Discussion of disease, wellness, stress management, nutrition, exercise, weight management, lifestyle and health consumer issues, and aging.
- PEHM 3050 THEORY AND TECHNIQUES OF DANCE** 1-1-1  
History, background, teaching techniques, and evolution of the various forms of dance including square, folk, social, and modern.
- PEHM 3060 RECREATIONAL GAMES** 0-2-1  
Instruction in recreational games and activities in diverse settings and with diverse populations.
- PEHM 3070 AQUATICS** 1-1-2  
Instruction in the six basic swimming strokes, basic rescue and water safety information and practices, water sport activities, and water exercise principles and teaching techniques.



- PEHM 3080 OUTDOOR EDUCATION** 1-1-1  
Knowledge, attitudes, and skills for a wiser use of the outdoors and our natural resources.
- PEHM 3500 EXERCISE PHYSIOLOGY** 2-1-2  
Prerequisite: PEHM 2280 and PEHM 2281  
Response of the major body organ systems to exercise, with laboratory procedures in exercise physiology.
- PEHM 3700 INDIVIDUAL AND DUAL SPORTS** 3-1-3  
Analysis, demonstration, and application of basic skills and techniques necessary for instruction in individual and dual sports.
- PEHM 3770 HEALTH AND HUMAN SEXUALITY EDUCATION** 3-0-3  
Health promotion strategies dealing with sexual behavior, sexually transmitted diseases, pregnancy, pregnancy prevention, and parenthood. Emphasis on interventions and curriculum materials available for teachers and health educators.
- PEHM 3780 SUBSTANCE ABUSE EDUCATION** 2-0-2  
Detailed background information on the categories of drugs, chemical misuse, abuse, prevention, treatment, along with curriculum and age-appropriate teaching strategies.
- PEHM 3800 SPORTS STRATEGIES AND METHODS** 2-1-2  
Prerequisite: PEHM 2701 and PEHM 2702 and PEHM 3700  
Strategies and instructional methods utilized in the teaching of individual, dual and team sports.
- PEHM 4050 SCHOOL HEALTH EDUCATION** 3-0-3  
Analysis of the collaborative efforts of the school health services program, community health services, and the comprehensive school health education curriculum to meet the needs of diverse school populations. Examination of growth and developmental characteristics of school aged children within a range of "norm" and its effect on a teacher's ability to teach effectively.
- PEHM 4200 ASSESSMENT IN HEALTH AND PHYSICAL EDUCATION PROGRAMS** 2-1-2  
Motor, perceptual, and performance needs for multiple student populations with an analysis and application of published and teacher-developed instruments.
- PEHM 4300 MANAGEMENT SKILLS IN HEALTH AND PHYSICAL EDUCATION** 2-0-2  
Theory and application of management and organization skills unique to the health and physical education environment.
- PEHM 4400 FITNESS THEORY AND APPLICATION** 1-1-2  
An examination of the health-related and motor-related physical fitness components.
- PEHM 4701 ELEMENTARY CURRICULUM AND METHODS** 3-1-3  
Theory and current practice in the teaching of elementary physical education including developing appropriate curriculum, applying appropriate teaching strategies, and writing an inclusive portfolio which will be taught in a local elementary school as a directed field experience.
- PEHM 4702 CURRICULUM DEVELOPMENT AND APPLICATION IN HEALTH EDUCATION** 2-0-3  
Prerequisite: admission to teacher education, PEHM 3770 and HSCP 3770 and PEHM 3780  
Corequisite: PEAT 2100  
Development and application of health education curriculum in the school environment with emphasis upon portfolio preparation and the choice and application of appropriate techniques and

methods of teaching health information and effective approaches in the development of positive life skills.

**PEHM 4703 MIDDLE/SECONDARY PHYSICAL EDUCATION CURRICULUM AND METHODS**

**3-2-4**

Prerequisite: admission to teacher education and PEHM 2701 and PEHM 2702 and PEHM 2900 and PEHM 3700 and PEHM 3800

Corequisite: PEHM 4200 and PEHM 4300

Theory and current practices in the design and development of curriculum, the selection and application of appropriate teaching strategies and techniques, and the development of a middle and secondary teaching portfolio in physical education.

**PEHM 4900 STUDENT TEACHING/SEMINAR**

**2-V-(9-12)**

Prerequisite: admission to teacher education

Opportunities to use knowledge and skills in a supervised public school setting.

**PHIL – Philosophy**

**PHIL 2201 INTRODUCTION TO PHILOSOPHY**

**3-0-3**

Prerequisite: ENGL 1101

Basic themes, problems, vocabulary, and representative figures of philosophy. Includes an essay or projects involving documentation.

**PHIL 2251 INTRODUCTION TO ETHICS AND CONTEMPORARY MORAL PHILOSOPHY**

**3-0-3**

Prerequisite: ENGL 1101

Ethical traditions of western culture and their application of historic perspectives to contemporary moral issues in medicine, business, and environmental relations.

**PHIL 3110 ANCIENT PHILOSOPHY**

**3-0-3**

Prerequisite: ENGL 1101

Ancient philosophy with special emphasis on the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics, and Neo-Platonism.

**PHIL 3120 MEDIEVAL PHILOSOPHY AND THE RISE OF HUMANISM**

**3-0-3**

Prerequisite: ENGL 1101

Medieval philosophy and the rise of humanistic studies in the Renaissance, with emphasis on Boethius, Augustine, Aquinas, Anselm, Occam, Erasmus, Bacon, Machiavelli, and Montaigne.

**PHIL 3130 CONTINENTAL RATIONALISM AND BRITISH EMPIRICISM**

**3-0-3**

Prerequisite: ENGL 1101

The modern rationalist tradition and its rival empirical tradition, with emphasis on Descartes, Spinoza, and Leibniz; and on Hobbes, Locke, Berkeley, and Hume.

**PHIL 3140 KANT AND THE 19TH CENTURY**

**3-0-3**

Prerequisite: ENGL 1101

Nineteenth century philosophy with emphasis on Kant, Hegel, Schopenhauer, Marx, James, Kierkegaard, and Nietzsche.

**PHIL 3150 TWENTIETH CENTURY PHILOSOPHY**

**3-0-3**

Prerequisite: ENGL 1101

Twentieth century schools and trends in philosophy as exhibited by such figures as Heidegger, Whitehead, Moore, Wittgenstein, Sartre, and Ayer.

- PHIL 3200 TECHNOLOGY, SOCIETY, AND HUMAN VALUES** 3-0-3  
 Prerequisite: ENGL 1101  
 A philosophical exploration of the formative impact of technology on the character of modern culture and human values. The study of competing descriptions and definitions of technology as well as questions regarding effective human control of technology, the moral neutrality of technology, and the effects of technology on conceptual paradigms, language, politics, economics, science, education, art, and religion.
- 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.
- PHIL 4900 INDEPENDENT STUDY** 1-0-1  
 Prerequisite: ENGL 1101 and PHIL 3000  
 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 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.
- PHSC 1212 CHEMICAL ENVIRONMENT** 3-0-3  
 Prerequisite: eligibility for MATH 1111  
 Fundamental concepts, laws, and theories of chemistry. For non-science majors interested in a quantitative survey of the chemistry underlying our world, including classification of the elements, basic chemical reactions, atomic structure, and earth science.
- PHSC 1212L CHEMICAL ENVIRONMENT LAB** 0-2-1  
 Corequisite: PHSC 1212  
 Laboratory investigations of the fundamental concepts, laws, and theories of chemistry.

**PHTH – Physical Therapy****PHTH 5101U FUNCTIONAL AND STRUCTURAL ASPECTS OF MOVEMENT I**

5-3-6

Corequisite: PHTH 5131U and PHTH 5161U and PHTH 5181U

Open only to physical therapy majors. Gross anatomy, physiology, pathophysiology and kinesiology of the back, head, neck, and upper and lower limbs.

**PHTH 5131U FOUNDATIONS OF PHYSICAL THERAPY ASSESSMENT AND TREATMENT I**

6-4-8

Corequisite: PHTH 5101U and PHTH 5161U and PHTH 5181U

Open only to physical therapy majors. Fundamental patient care skills including basic evaluation. Treatment and documentation for patients with musculoskeletal and integumentary dysfunction.

**PHTH 5161U PHYSICAL THERAPY PRACTICE ISSUES I**

2-0-2

Corequisite: PHTH 5101U and PHTH 5131U and PHTH 5181U

Open only to physical therapy majors. Discussions of professional socialization, clinical documentation, legal and ethical aspects of health care and psychosocial aspects of illness, disability and health care, scope of practice vs. scope of abilities, the disabled/impaired practitioner, and "burn-out" syndrome. Case studies will link the material presented in this course with other courses taught in this semester.

**PHTH 5181U CLINICAL PRACTICUM I**

1-0-1

Corequisite: PHTH 5101U and PHTH 5131U and PHTH 5161U

Open only to physical therapy majors. Initial exposure to the health care setting and health care professionals through discussion and half-day on-site observational experiences. Care settings will include specialty clinics, long term care facilities, hospitals, and school systems.

**PHTH 5202U FUNCTIONAL AND STRUCTURAL ASPECTS OF MOVEMENT II**

4-3-5

Prerequisite: PHTH 5101U and 5121U and 5161U and 5181U

Corequisite: PHTH 5232U and 5262U and 5282U and 5290U

Gross anatomy, physiology and pathophysiology of the heart and lungs and nervous system.

**PHTH 5232U FOUNDATIONS OF PHYSICAL THERAPY ASSESSMENT AND TREATMENT II**

6-4-8

Prerequisite: PHTH 5101U and 5131U and 5161U and 5181U

Corequisite: PHTH 5202U and 5262U and 5282U and 5290U

Fundamental patient care skills including basic evaluation. treatment and documentation for patients with cardiopulmonary and neuromuscular dysfunction.

**PHTH 5262U PHYSICAL THERAPY PRACTICE ISSUES II**

2-0-2

Prerequisite: PHTH 5010U and 5131U and 5161U and 5181U

Corequisite: PHTH 5202U and 5232U and 5282U and 5290U

Discussions of legislative issues in health care, cultural issues in health care, health promotion and injury prevention education, adult learning skills used in patient and family education, quantitative terminology in clinical practice and documentation, and a critical analysis of physical therapy research.

**PHTH 5282U CLINICAL PRACTICUM II**

0-3-1

Prerequisite: PHTH 5101U and 5131U and 5161U and 5181U

Corequisite: PHTH 5202U and 5232U and 5262U and 5292U

A one-week, full-time, hands-on exposure to patient care in a physical therapy setting. Physical therapy settings include specialty clinics, long term care facilities, hospitals, and school systems.

- PHTH 5290U PHYSICAL THERAPY CASE MANAGEMENT** 2-4-3  
 Prerequisite: PHTH 5101U and 5131U and 5161U and 5181U  
 Corequisite: PHTH 5202U and 5232U and 5262U and 5282U  
 Presentation of specific cases for students to manage from referral to discharge, utilizing given information with increasingly complicated scenarios. Students work in small groups to develop total management of each case. Cases presented will link this course to all other courses in this and the previous semester.
- PHYS – Physics**
- PHYS 1111 INTRODUCTORY PHYSICS I** 3-0-3  
 Prerequisite: MATH 1113  
 Prerequisite or corequisite: PHYS 1111L  
 Introductory mechanics, thermodynamics, and waves using elementary algebra and trigonometry.
- PHYS 1111L INTRODUCTORY PHYSICS I LAB** 0-3-1  
 Prerequisite: MATH 1113  
 Prerequisite or corequisite: PHYS 1111  
 Laboratory investigation of the concepts of mechanics, thermodynamics, and waves.
- PHYS 1112 INTRODUCTORY PHYSICS II** 3-0-3  
 Prerequisite: PHYS 1111  
 Prerequisite or corequisite: PHYS 1112L  
 Introductory electromagnetism, optics, and modern physics using elementary algebra and trigonometry.
- PHYS 1112L INTRODUCTORY PHYSICS II LAB** 0-3-1  
 Prerequisite or corequisite: PHYS 1112  
 Laboratory investigations of the concepts of electricity, magnetism, geometric and physical optics, and modern physics.
- PHYS 2211 PRINCIPLES OF PHYSICS I** 3-0-3  
 Prerequisite: MATH 1161  
 Prerequisite or corequisite: PHYS 2211L  
 Introductory mechanics, thermodynamics, and waves using elementary differential calculus.
- PHYS 2211L PRINCIPLES OF PHYSICS I LAB** 0-3-1  
 Prerequisite or corequisite: PHYS 2211  
 Laboratory investigation of the concepts of mechanics, thermodynamics and waves.
- PHYS 2212 PRINCIPLES OF PHYSICS II** 3-0-3  
 Prerequisite: PHYS 2211 and MATH 2072  
 Prerequisite or corequisite: PHYS 2212L  
 Introductory electromagnetism, optics, and modern physics using elementary differential and integral calculus.
- PHYS 2212L PRINCIPLES OF PHYSICS II LAB** 0-3-1  
 Prerequisite or corequisite: PHYS 2212  
 Laboratory investigations of the concepts of electricity and magnetism, optics, and modern physics.
- PHYS 3100 ELECTRICAL CIRCUIT ANALYSIS** 3-0-3  
 Prerequisite: PHYS 2212  
 Prerequisite or corequisite: MATH 3411  
 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 3120 DIGITAL ELECTRONICS** 1-6-3  
Prerequisite: MATH 1113 and 8 semester hours of lab science  
Introduction to discrete components and integrated circuits. Hands-on lab experience in constructing and investigating an array of digital circuits that are directly applicable in instrumentation.
- PHYS 3210 INTERMEDIATE MECHANICS** 3-0-3  
Prerequisite: MATH 2072 and ENGR 2200  
Kinematics of particles and rigid bodies; kinetics of particles and rigid bodies using force-mass-acceleration, work-energy, and momentum methods in two- and three-dimensional motion. Computer modelling of mechanical systems.
- PHYS 3220 MECHANICS OF DEFORMABLE BODIES** 3-0-3  
Prerequisite: ENGR 2200  
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** 3-0-3  
Prerequisite: MATH 3411 and either ENGR 2210 or PHYS 3210 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** 3-0-3  
Prerequisite: PHYS 2212 and MATH 2072  
Basic concepts of thermodynamic properties of substances; conservation principles; the first and second laws of thermodynamics; entropy; analysis of thermodynamics systems.
- PHYS 3400 CHEMICAL THERMODYNAMICS** 3-3-4  
Prerequisite: CHEM 1212 and PHYS 2211 and MATH 2072  
Fundamental principles and theories of physical chemistry. Gas laws, heat and work, and the laws of thermodynamics. Material and reaction equilibria and thermodynamic functions. Single and multi-component phase equilibria, ideal and non-ideal solutions. Practical application of these fundamental principles of physical chemistry in the laboratory.
- PHYS 3500 DIFFRACTION AND CRYSTALLOGRAPHY** 3-0-3  
Prerequisite: PHYS 3801  
Diffraction and crystal structure with identification from single crystal and powder patterns. Lattice parameters and crystal orientation.
- PHYS 3801 OPTICS AND MODERN PHYSICS** 2-0-2  
Prerequisite: PHYS 2212 or both MATH 1161 and PHYS 1112  
Optics and modern physics, including geometric and physical optics, relativity, atomic physics, and nuclear physics.
- PHYS 3801L OPTICS AND MODERN PHYSICS LAB** 0-3-1  
Prerequisite or corequisite: PHYS 3801  
Laboratory investigation of the concepts of geometric and physical optics, relativity, atomic physics, and nuclear physics.
- PHYS 3802 INTERMEDIATE MODERN PHYSICS** 3-0-3  
Prerequisite: MATH 2072 and PHYS 3801  
Introduction to quantum mechanical principles with applications in atomic and molecular structure.

**PHYS 4120 SCIENTIFIC MEASUREMENT WITH DIGITAL INTERFACING 1-6-3**

Prerequisite: PHYS 3120 and CSCI 1301

Principles and techniques used in measuring physical quantities, including transducers, data acquisition interfaces(A/D, D/A, DIO), GPIB, 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.

**PHYS 4170 ADVANCED MECHANICS 3-0-3**

Prerequisite: MATH 2072 and either PHYS 1111 or PHYS 2211 (also recommended: PHYS 1112 or PHYS 2212 and MATH 3411)

Statics, kinematics, and dynamics of particles and of systems of particles from Newtonian principles.

**PHYS 4900 INDEPENDENT STUDY IN PHYSICS V-V-(1-3)**

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 V-V-(1-3)**

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.

**PHYS 4960 PHYSICS INTERNSHIP V-V-(1-10)**

Prerequisite: ENGR 2200 and PHYS 3100 and either PHYS 3300 or PHYS 3400 and permission of instructor or department

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.

**POLS – Political Science****POLS 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 HIST 1100.

**POLS 1150 WORLD POLITICS 2-0-2**

Prerequisite: eligibility for ENGL 1101

Comparative political systems with emphasis on the variety of world polities. 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.

**POLS 1200 ETHICAL THEORIES AND MORAL ISSUES IN GOVERNMENT 2-0-2**

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.

- POLS 2100 INTRODUCTION TO POLITICAL SCIENCE** 3-0-3  
Prerequisite: eligibility for ENGL 1101  
Study of federal, state, and international political systems, with emphasis on concepts of sovereignty, constitutionalism, functions of government, political culture, and ideology. Analysis of the federal constitution, Georgia state constitution, and other constitutional frameworks.
- POLS 2150 CAREERS IN POLITICAL SCIENCE AND PUBLIC ADMINISTRATION** 1-0-1  
Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601  
How to apply the political science and public administration disciplines to careers in public service. Emphasis on creating a plan for professional development, a personality profile, skills assessment, researching career clusters in public service, field interviews, developing a plan for a job search. Crosslisted as PUBL 2150.
- POLS 2201 STATE AND LOCAL GOVERNMENT** 3-0-3  
Prerequisite: eligibility for ENGL 1101  
Comparative study of local governments, and their management of political conflict. Emphasis on federalism, political culture, community power, tax and budget systems, and public policy issues facing states and communities.
- POLS 2250 INTERNATIONAL ORGANIZATIONS** 2-0-2  
Prerequisite: eligibility for ENGL 1101  
Origin, principles, and functions of regional and global organizations transcending national boundaries. Organizational structures with emphasis on geopolitics creating structures, their functions and dysfunctions. Crosslisted as PUBL 2250.
- POLS 2290 FOUNDATIONS OF INTERNATIONAL RELATIONS** 2-0-2  
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 2390 HUMAN VALUES AND PUBLIC PROBLEMS** 2-0-2  
Prerequisite: eligibility for ENGL 1101  
Analysis of the normative aspects of public problems. Themes include technology and society, conflict between individual freedom and collective responsibility, social justice, the ethics of communication, relationships between humanity and the environment, and the role of government in a multicultural society.
- POLS 2601 FOUNDATIONS OF PUBLIC ADMINISTRATION** 3-0-3  
Prerequisite: eligibility for ENGL 1101 and either POLS 1100 or POLS 2100  
Elements of public administration. Emphasis on bureaucracy, administrative power, informal groups, issue networks, budgeting, implementation, decision making, personnel, and ethics in public service. Crosslisted as PUBL 2601.
- POLS 3170 CONSTITUTIONAL LAW AND THE FEDERAL SYSTEM** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
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 3180 CONSTITUTIONAL CIVIL LIBERTIES** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
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 3210 INTERNATIONAL RELATIONS: EAST ASIA** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Contemporary international politics in East Asia in terms of ongoing historical trends such as the decline of imperialism, rise of nationalism, and the superpower interactions during the Cold War and post-Cold War eras. Further emphasis on the political economy of the Asian Pacific rim states toward the twenty-first century.
- POLS 3260 INTERNATIONAL LAW** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
International agreements, cases, and customs on the legal relationships between nations. Emphasis on recognition, state succession, jurisdiction, extradition, nationality, treaties, diplomacy, and war.
- POLS 3300 POLITICAL PHILOSOPHY: ANCIENT AND MEDIEVAL** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Primary sources of western political thought from ancient Greece to the renaissance. The political ideas of Plato, Aristotle, Judaism, Christianity, Islam, Roman natural law and stoicism, and the late revival of civic republicanism.
- POLS 3310 MODERN POLITICAL PHILOSOPHY** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Primary sources of western thought from the sixteenth to nineteenth century. The political ideas of the Protestant Reformation, the social contract theories, of Hobbes, Locke, and Rousseau, utilitarianism, the impact of the French Revolution, nationalism, and socialism.
- POLS 3320 AMERICAN POLITICAL THOUGHT** 3-0-3  
Prerequisite: POLS 2100 and either 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 3330 CONTEMPORARY POLITICAL THOUGHT** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Ideological currents of our time. Selected in-depth readings from original sources.
- POLS 3420 POLITICS OF UNDERDEVELOPMENT: AFRICA AND LATIN AMERICA** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Contemporary global patterns of dependency and interdependency. Legacy of colonialism; role of military in politics; nationalist regimes and movements; democratization; ethnic conflicts; environmental problems; political geography.
- POLS 3460 GOVERNMENTS OF EAST ASIA** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Comparative examination of the contemporary political institutions, processes, and ideas of the Peoples Republic of China, Japan, and two Koreas. Emphasis on historical, social, cultural, and contemporary issues.
- POLS 3480 GOVERNMENTS OF WESTERN EUROPE** 3-0-3  
Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100  
Comparison of the major western European governments, emphasizing the forces impacting political stability in parliamentary systems.

**POLS 3490 THE POLITICAL TRANSFORMATION OF THE FORMER SOVIET UNION**

3-0-3

Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100

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 3990 SPECIAL TOPICS IN PUBLIC ADMINISTRATION/POLITICAL SCIENCE**

3-0-3

Prerequisite: permission of instructor or department and POLS 2100 and either PUBL 2601 or POLS 2601

Topics and issues not available in other courses. Topics will be announced before each offering of the course. Crosslisted as PUBL 3990.

**POLS 4010 POLITICS OF BUDGETARY PROCESS**

3-0-3

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Procedures and strategies for national, state, and local government budgets. Emphasis on politics, fiscal and monetary policy, revenue systems, audits, planning, and accounting systems. Crosslisted as PUBL 4010.

**POLS 4030 PUBLIC POLICY DEVELOPMENT**

3-0-3

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Decision making for public policy. Emphasis on decision making theories, politics of the policy-making process, mobilization of political support, cost and benefits of selected public policies, and application of decision theory to selected public policy issues. Crosslisted as PUBL 4030

**POLS 4050 PRINCIPLES OF PUBLIC MANAGEMENT**

3-0-3

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Theory and cases on the management of public and non-profit agencies. Emphasis on total quality management, rational and incremental decision making, cost benefit analysis, politics and public policy of decision making, accountability measures, and political culture. Crosslisted as PUBL 4050.

**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 and either 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 4120 CONGRESS AND POLITICAL PARTIES**

3-0-3

Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100

Party organization, the electoral system, structure and functions of Congress. Theories of representative government, and the role of Congress as policy maker.

**POLS 4150 AMERICAN SUPREME COURT**

3-0-3

Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100

Structure and functions of the Supreme Court, its use of legal reasoning, and role as policy maker.

**POLS 4180 ADMINISTRATIVE LAW****3-0-3**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

The framework of law governing federal administrative agencies. Emphasis on judicial responsibility, enforcement, discretion, summary actions, hearings, procedural safeguards, search and seizure, due process, and civil rights. Crosslisted as PUBL 4180.

**POLS 4200 INDEPENDENT STUDY IN INTERNATIONAL RELATIONS****V-V-(1-3)**

Prerequisite: permission of instructor or department

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 4290 AMERICAN FOREIGN POLICY****3-0-3**

Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100

Analysis of United States foreign policy and factors, both domestic and global, contributing to its formulation.

**POLS 4400 INDEPENDENT STUDY IN COMPARATIVE GOVERNMENT****3-0-3**

Prerequisite: permission of instructor or department

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.

**POLS 4620, -30, -40 INTERNSHIP****V-V-3**

Prerequisite: permission of instructor or department

Open only to juniors or above. Field experience in government, public service or applied politics. Crosslisted as PUBL 4620, -30, -40.

**POLS 4950 SEMINAR IN POLITICAL SCIENCE****3-0-3**

Open to seniors. Selected political science topics. Oral and written presentations of student research, in conformity with departmental guidelines.

**POLS 5120U CONGRESS AND POLITICAL PARTIES****3-0-3**

Prerequisite: POLS 2100 and either HIST 1100 or POLS 1100

Party organization, the electoral system, structure and functions of Congress. Theories of representative government. Role of Congress as policy-maker.

**POLS 5130U POLITICAL TERRORISM****3-0-3**

Prerequisite: CRJU 1010 and either 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. Crosslisted as CRJU 5130U.

**POLS 5280U SEMINAR IN GLOBAL POLITICS****3-0-3**

Prerequisite: POLS 2290 and either HIST 1100 or POLS 1100

Relations among nations with emphasis on structure of international power politics, causes of war and approaches to peace. Covers some of the pertinent global issues of the post-Cold War Era, e.g.,

nuclear proliferation, multinational corporations, environmental and health issues, and human right issues.

**POLS 5500U LAW AND LEGAL PROCESS**

**3-0-3**

Prerequisite: HIST 1100 or POLS 2100

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 5520U COMPARATIVE JUDICIAL SYSTEMS**

**3-0-3**

Prerequisite: POLS 5500U or CRJU 5500U.

Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as CRJU 5520U.

**PSYC – Psychology**

**PSYC 1101 GENERAL 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 GENERAL PSYCHOLOGY**

**3-0-3**

Prerequisite: acceptance in honors program

Course content similar to PSYC1101, but emphasis on psychology as a laboratory science. Students will conduct a variety of experiments and demonstrations and will write research reports on these topics.

**PSYC 2010 HUMAN GROWTH AND DEVELOPMENT**

**3-0-3**

Prerequisite: PSYC 1101

Survey of lifespan development with focus on physical, emotional, cognitive, and social development. Understandings of growth and development applied to classroom teaching and learning. Not for psychology majors.

**PSYC 2200 INTRODUCTION TO PSYCHOLOGICAL RESEARCH**

**3-1-4**

Prerequisite: PSYC 1101

An introduction to scientific methodology and its application to behavior analysis. Various techniques of data collection and the statistical analysis of such data emphasized.

**PSYC 2950 DEVELOPMENTAL PSYCHOLOGY**

**3-0-3**

Prerequisite: PSYC 1101

Origin and development of psychological processes from the lifespan perspective including the effects of genetic/maturational and socio-cultural/environmental factors.

**PSYC 3020 PSYCHOLOGICAL TESTING**

**3-0-3**

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**

**3-0-3**

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 3040 FUNDAMENTALS OF COUNSELING AND PSYCHOTHERAPY** 3-0-3  
Prerequisite: PSYC 1101  
A survey of personality theories and the behavior changing techniques arising from them. Emphasis on learning theory and environmental influences.
- PSYC 3050 TOPICS IN DEVELOPMENT** 3-0-3  
Prerequisite: PSYC 1101  
A survey of the fundamental issues, processes, and theories of the field of developmental psychology. Focus on relevant research and practical applications through adolescence. NOT a substitute for PSYC 2950 or PSYC 2010.
- PSYC 3070 PERCEPTION** 3-0-3  
Prerequisite: PSYC 1101  
Experimental and theoretical analysis of the nature of perceptual processes.
- PSYC 3090 PHYSIOLOGICAL PSYCHOLOGY** 3-0-3  
Prerequisite: PSYC 1101 and BIOL 1107 and BIOL 1108  
Structure and function of the nervous system and its relationship to behavior.
- PSYC 3100 PSYCHOLOGY OF HUMAN SEXUALITY** 3-0-3  
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** 3-0-3  
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 3120 MEASUREMENT** 3-1-4  
Prerequisite: PSYC 1101 and PSYC 2200  
Examination of the theory of measurement, reliability and validity techniques, test construction, and statistical analysis. Student research project required.
- PSYC 3150 PSYCHOLOGY OF CONFLICT AND STRESS** 3-0-3  
Prerequisite: PSYC 1101  
Interactions between physiological processes in the development and maintenance of stress related disorders. Emphasis on environmental factors and stress management techniques.
- PSYC 3160 CLINICAL PSYCHOLOGY** 3-0-3  
Prerequisite: PSYC 1101  
Behavioral problems, treatment modes, and theories.
- PSYC 3190 ANIMAL BEHAVIOR** 3-0-3  
Prerequisite: PSYC 1101  
Adaptations and behaviors with which living organisms cope with their environments using naturalistic observation and experimental methods.
- PSYC 3200 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY** 3-0-3  
Prerequisite: PSYC 1101  
Applications of psychological principles to business and professional settings, including work motivation, goal setting, power politics, leadership, communication, and organization development.

- PSYC 3210 PSYCHOLOGY OF WORK BEHAVIOR** 3-0-3  
Prerequisite: PSYC 1101  
Psychological analysis of issues related to the individual worker in industry and organization including employee selection, training strategies, performance evaluation, and job satisfaction.
- PSYC 3280 ABNORMAL PSYCHOLOGY** 3-0-3  
Prerequisite: PSYC 1101  
Scientific and cultural bases of various conceptions of undesirable behavior, emphasizing application of principles derived from basic research.
- 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 3750 PSYCHOLOGY OF AGING** 3-0-3  
Prerequisite: PSYC 1101  
Analysis of the aging process as a physical and biosocial change. Important adaptive aspects with an emphasis on maintaining an optimal quality of life.
- PSYC 3950 RESEARCH IN THE SOCIAL AND BEHAVIORAL SCIENCES V-V-(1-3)**  
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 appropriate discipline. Students will conduct research using methods appropriate for that discipline. Student research 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. Up to three (3) credit hours may be earned in any one discipline, for a maximum of six (6) credit hours.
- PSYC 4010, -20, -30 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.
- PSYC 4060 BEHAVIOR MODIFICATION** 3-0-3  
Prerequisite: PSYC 1101  
Proven methods of generating behavioral change, their empirical foundations and their applications in clinical, educational, and social settings.
- PSYC 4080 LEARNING AND MOTIVATION** 3-1-4  
Prerequisite: PSYC 1101 and PSYC 2200  
Methodology and theory associated with the various forms of learning and their motivational concomitant. Laboratory introduction to animal care, training, and experimentation. Student research project required.
- PSYC 4100 HISTORY AND SYSTEMS OF PSYCHOLOGY** 3-0-3  
Prerequisite: permission of instructor or department  
Open only to psychology majors. Basic ideas in psychology from early animism to modern behavioristics. Special attention is given to the philosophical basis at various times in the history of psychology.

**PSYC 4110 SENIOR SEMINAR****1-0-1**

Prerequisite: permission of instructor or department

Open only to psychology majors. Reading and discussion group concentrating on selected contemporary issues in psychology, ethics, and careers.

**PSYC 4120 SENIOR PROJECT****3-0-3**

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 4130 SENIOR INTERNSHIP****3-0-3**

Open only to seniors. 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 acceptable to the departmental faculty required.

**PUBL – Public Administration****PUBL 2150 CAREERS IN POLITICAL SCIENCE AND PUBLIC ADMINISTRATION****1-0-1**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

How to apply the political science and public administration disciplines to careers in public service. Emphasis on creating a plan for professional development, a personality profile, skills assessment, researching career clusters in public service, field interviews, developing a plan for a job search. Crosslisted as POLS 2150.

**PUBL 2250 INTERNATIONAL ORGANIZATIONS****2-0-2**

Prerequisite: eligibility for ENGL 1101

Origin, principles, and functions of regional and global organizations transcending national boundaries. Organizational structures with emphasis on geopolitics creating structures, their functions, and dysfunctions. Crosslisted as POLS 2250.

**PUBL 2601 FOUNDATIONS OF PUBLIC ADMINISTRATION****3-0-3**

Prerequisite: eligibility for ENGL 1101 and either POLS 1100 or POLS 2100

Elements of public administration. Emphasis on bureaucracy, administrative power, informal groups, issue networks, budgeting, implementation, decision making, personnel, and ethics in public service. Crosslisted as POLS 2601.

**PUBL 3990 SPECIAL TOPICS IN PUBLIC ADMINISTRATION/POLITICAL SCIENCE****3-0-3**

Prerequisite: permission of instructor or department and POLS 2100 and either PUBL 2601 or POLS 2601

Topics and issues not available in other courses. Topics will be announced before each offering of the course. Crosslisted as POLS 3990.

**PUBL 4010 POLITICS OF BUDGETARY PROCESS****3-0-3**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Procedures and strategies for national, state and local government budgets. Emphasis on politics, fiscal and monetary policy, revenue systems, audits, planning, and accounting systems. Crosslisted as POLS 4010.

**PUBL 4030 PUBLIC POLICY DEVELOPMENT****3-0-3**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Decision making for public policy. Emphasis on decision making theories, politics of the policy making process, mobilization of political support, cost and benefits of selected public policies, and application of decision theory to selected public policy issues. Crosslisted as POLS 4030.

**PUBL 4050 PRINCIPLES OF PUBLIC MANAGEMENT 3-0-3**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

Theory and cases on the management of public and non-profit agencies. Emphasis on total quality management, rational and incremental decision making, cost benefit analysis, politics and public policy of decision making, accountability measures, and political culture. Crosslisted as POLS 4050.

**PUBL 4180 ADMINISTRATIVE LAW 3-0-3**

Prerequisite: POLS 2100 and either PUBL 2601 or POLS 2601

The framework of law governing federal administrative agencies. Emphasis on judicial responsibility, enforcement, discretion, summary actions, hearings, procedural safeguards, search and seizure, due process, and civil rights. Crosslisted as POLS 4180.

**PUBL 4620, -30, -40 INTERNSHIP V-V-3**

Prerequisite: permission of instructor or department

Open only to juniors or above. Field experience in government, public service or applied politics. Crosslisted as POLS 4620, -30, -40.

**RADS – Radiologic Sciences****RADS 3000 INTRODUCTION TO RADIOLOGIC SCIENCES 3-1-3**

Open only to majors in radiologic technologies-BS. Professional organizations, specialties, accreditation, certification, licensure, professional development, ethics legal issues, radiation protection methodology, and elementary imaging concepts.

**RADS 3050 PATIENT CARE AND INTERACTION 3-2-3**

Open only to majors in radiologic technologies-BS. 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, administration and interpretation of EKG's, emergency medical situations, infectious disease processes and universal precautions. CPR certification required.

**RADS 3060 PRINCIPLES OF IMAGE FORMATION AND EVALUATION 2-2-3**

Open only to majors in radiologic technologies-BS. Factors influencing radiographic quality and conditions influencing exposures, technique charts and artifact analysis.

**RADS 3071 RADIOGRAPHIC PROCEDURES I 2-3-3**

Open only to majors in radiologic technologies-BS. Procedures involving the chest, abdomen, and visceral organs requiring the use of contrast media, including spatial relationships and pathology. Emphasis on equipment manipulation and quality evaluation of radiographic examinations.

**RADS 3072 RADIOGRAPHIC PROCEDURES II 2-3-3**

Prerequisite: RADS 3071

Procedures involving extremities, shoulder girdle, and vertebral column including chest and abdomen, visceral organs requiring the use of contrast media, spatial relationships, pathology, equipment manipulation, quality evaluation and medical terminology.

**RADS 3073 RADIOGRAPHIC PROCEDURES III 2-3-3**

Prerequisite: RADS 3072

Procedures involving bony thorax, pelvic girdle, facial bones, cranium, heart, breast, and reproductive organs including the chest, abdomen, and visceral organs requiring the use of contrast media, including spatial relationships and pathology. Emphasis on equipment manipulation and quality evaluation of radiographic examinations.



- RADS 3090 INTRODUCTION TO RADIATION PHYSICS** 2-2-3  
Prerequisite: MATH 1111  
Mechanics, electromagnetic physics and nuclear physics as they relate to the medical setting.
- RADS 3150 RADIOBIOLOGY AND RADIATION PROTECTION** 3-1-3  
Prerequisite: permission of instructor or department  
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 CLINICAL EDUCATION I** 0-8-1  
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 CLINICAL EDUCATION II** 0-16-2  
Prerequisite: permission of instructor or department  
Prerequisite or corequisite: RADS 3072 and RADS 3161  
Supervised clinical practice in performing radiographic procedures.
- RADS 3180 FOUNDATIONS OF RADIATION THERAPY** 0-16-2  
Prerequisite: acceptance into a radiologic science program and registry in a radiologic science discipline  
Radiation therapy department organization, radiation therapy techniques, introduction to clinical radiation oncology, radiation therapy terminology, auxiliary radiation therapy equipment, radiation therapy nursing, the lymph system, landmarks, radiation biology and protection in radiation therapy, radiation therapy math basics, simulation imaging, radiation therapy computers.
- RADS 3190 PRINCIPLES OF RADIATION THERAPY** 3-0-3  
Prerequisite: permission of instructor or department and RADS 3000  
Principles of cancer treatment modalities and rationale for treatment choice with an emphasis on radiation therapy. Focus on the pathologic mechanisms of tumor development, tumor classification and staging.
- RADS 3301 CLINICAL EDUCATION I** 0-8-1  
Prerequisite: permission of instructor or department  
A supervised orientation to radiographic procedures and radiation therapy students.
- RADS 3302 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 4050 QUALITY MANAGEMENT IN RADIOGRAPHY** 2-2-2  
Prerequisite: permission of instructor or department  
Equipment testing, analysis of quality control data and quality assurance data, federal government guidelines and introduction to total quality management concepts and procedures.
- RADS 4090 RADIOGRAPHIC PHYSICS** 2-2-3  
Prerequisite: RADS 3090  
Interaction of radiation with matter, formation of photographic and electronic images, and the physics of nuclear magnetic image and computed tomography.

- RADS 4110 ADVANCED IMAGING** 3-0-3  
Prerequisite: permission of instructor or department and RADS 4090  
Instrumentation, operation, and clinical uses of computerized tomography, magnetic resonance imaging, cardiovascular/interventional radiology, mammography.
- RADS 4163 CLINICAL EDUCATION III** 0-24-3  
Prerequisite: permission of instructor or department and RADS 3162  
Supervised clinical practice in performing radiographic procedures.
- RADS 4164 CLINICAL EDUCATION IV** 0-27-3  
Prerequisite: permission of instructor or department and RADS 4163  
Supervised clinical practice in performing radiographic procedures.
- RADS 4165 CLINICAL EDUCATION V** 0-32-7  
Prerequisite: permission of instructor or department  
Supervised clinical practice in radiographic procedures in computerized tomography, magnetic resonance imaging, cardiovascular/interventional radiology, and mammography.
- RADS 4201 RADIATION ONCOLOGY I** 3-0-3  
Prerequisite: permission of instructor or department  
Prerequisite or corequisite: RADS 3190  
Etiology, epidemiology, treatment, and prognosis of carcinomas affecting the head and neck, respiratory, digestive, and central nervous systems.
- RADS 4202 RADIATION ONCOLOGY II** 3-0-3  
Prerequisite: RADS 4201  
Etiology, epidemiology, treatment, and prognosis of malignancies affecting the urinary, integumentary, and reproductive systems including lymphomas and leukemias.
- RADS 4240 RADIATION THERAPY PHYSICS** 3-1-3  
Prerequisite: permission of instructor or department and RADS 3090  
Operating principles of therapeutic equipment, methods of baseline testing and calibration, domestic and brachytherapy.
- RADS 4260 TREATMENT PLANNING** 3-0-3  
Prerequisite: permission of instructor or department  
Prerequisite or corequisite: RADS 4240  
Planning and calculation of dosage for a range of cancer treatment techniques with and without computer assistance.
- RADS 4280 QUALITY MANAGEMENT IN RADIATION THERAPY** 1-0-1  
Prerequisite: permission of instructor or department, RADS 4240  
Total quality management concepts and principles in a radiation oncology department. Emphasis on quality assurance and JCAHO standards.
- RADS 4303 CLINICAL EDUCATION III** 0-24-4  
Prerequisite: permission of instructor or department and RADS 3302  
Supervised clinical experience in the application and delivery of radiation therapy.
- RADS 4304 CLINICAL EDUCATION IV** 0-24-3  
Prerequisite: permission of instructor or department and RADS 4303  
Supervised clinical experience in the application and delivery of radiation therapy.

**RADS 4305 CLINICAL EDUCATION V** 0-24-4  
 Prerequisite: permission of instructor or department and RADS 4304  
 Capstone clinical education course in the application and delivery of radiation therapy.

**RADS 4410 CROSS-SECTIONAL ANATOMY** 3-0-3  
 Prerequisite: permission of instructor or department  
 Three-dimensional anatomical relationships of cross-sectional anatomy slices and images produced by computed tomography and magnetic resonance imaging.

**RADS 4430 PROFESSIONAL PRACTICE SEMINAR** 3-0-3  
 Prerequisite: permission of instructor or department  
 Capstone course on major trends and issues affecting present day radiologic sciences.

**RADS 4450 RADIOLOGY MANAGEMENT AND LEADERSHIP** 3-0-3  
 Prerequisite: permission of instructor or department  
 Management, leadership, health care financing, and total quality concepts specific to the radiation sciences.

### **READ – Reading**

**READ 0090 READING THE BIOGRAPHY** 2-0-2  
 Use of biographical material with emphasis on literature, the media, and development of receptive language skills. Focus on literal and critical thinking strategies with guided reading assignments, reader response journals, library research projects, use of electronic resources, summaries, and autobiographies.

**READ 0091 LITERACY, ALTERNATIVE VIEWPOINTS, AND PROPAGANDA** 2-0-2  
 Use of the highly pervasive discourse of propaganda, alternate positions, with support for and against diverse viewpoints using multiple genres including politics, advertising, multicultural writings, speeches, editorials and essays. Acquisition of an intellectual framework and sophisticated level of thinking.

**READ 0099 STRATEGIES FOR COLLEGE READING** 3-0-3  
 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.

**READ 0099L STRATEGIES FOR COLLEGE READING WITH COMPUTER APPLICATIONS** 4-1-4  
 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, with focus on a computer laboratory component.

**READ 0099T THEMATIC APPROACHES TO COLLEGE READING** 3-0-3  
 Prerequisite: placement according to CPE score  
 Corequisite: ENGL 0099T  
 A thematic approach to text selections and short stories or articles on a wide range of subjects with emphasis on comprehension, critical thinking, increased vocabulary, recognition of main ideas, supportive details, organizational and rhetorical patterns, transitions, tone, purpose, fact and opinion, and inferences.

**RESP – Respiratory Therapy****RESP 3110 PATIENT ASSESSMENT 3-0-3**

Corequisite: RESP 3120 and RESP 3151C

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 2-2-3**

Corequisite: RESP 3110 and RESP 3151C

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 0-6-1**

Corequisite: RESP 3110 and RESP 3120

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: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3220 and RESP 3230 and RESP 3252C

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 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3230 and RESP 3252C

Development and implementation of the care plan; evaluation of patient response to therapy with extensive use of therapeutic protocols and decision making algorithms.

**RESP 3230 DIAGNOSTIC PROCEDURES 3-0-3**

Prerequisite: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3220 and RESP 3252C

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 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3220 and RESP 3230

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 3310 BASIC VENTILATORY SUPPORT 2-3-3**

Prerequisite: RESP 3210 and RESP 3220 and RESP 3230 and RESP 3252C

Corequisite: RESP 3353C

The history, terminology, fundamental principles, and concept of life support technology. Lab experience emphasizes ventilator classification, evaluation, and management.

**RESP 3320 SUBACUTE/HOME CARE 2-0-2**

Prerequisite: RESP 3210 and RESP 3220 and RESP 3230 and RESP 3252C

Corequisite: REST 3310 and RESP 3353C

Assessment and care of the patient in the subacute and home settings. Case management, discharge planning, rehabilitation, durable medical equipment, regulatory issues, and patient education explored. Role of the RCP in community health and wellness examined.

**RESP 3353C CLINICAL PRACTICUM III****0-18-3**

Prerequisite: RESP 3252C

Corequisite: RESP 3310

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 4110 ADVANCED VENTILATORY SUPPORT****2-3-3**

Prerequisite: RESP 3310 and RESP 3353C

Corequisite: RESP 4120 and RESP 4130 and RESP 4154C

Case-oriented approach to management of the ventilator dependant patient. Patient assessment and modification of the care plan based on patient response.

**RESP 4120 CARDIOPULMONARY CRITICAL CARE****3-0-3**

Prerequisite: RESP 3310 and RESP 3353C

Corequisite: RESP 4110 and RESP 4130 and RESP 4154C

Hemodynamic monitoring, fluid/electrolyte management, cardiovascular pharmacology, and ACLS protocols.

**RESP 4130 PERINATAL CARE****3-3-4**

Prerequisite: RESP 3310 and RESP 3353C

Corequisite: RESP 4110 and RESP 4120 and RESP 4154C

Care of the pediatric and neonatal patient in the critical care environment. Patient assessment, initiation and modification of the care plan based on patient response.

**RESP 4154C CLINICAL PRACTICUM IV****0-18-3**

Prerequisite: RESP 3310 and RESP 3353C

Corequisite: RESP 4110 and RESP 4120 and RESP 4130

Advanced monitoring of the CP and CV system in the adult ICU environment. Home/subacute care rotation will emphasize core of the chronically ill patient. Introduction to the role of the RCP in pediatric/neonatal ICU.

**RESP 4210 CARDIOPULMONARY MEDICINE****3-0-3**

Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C and RESP 4160C

Corequisite: RESP 4255C

A problem solving approach to the pathophysiology and medical management of cardiopulmonary problems encountered in the hospital setting.

**RESP 4220 RESEARCH IN RESPIRATORY CARE****2-3-3**

Prerequisite: HLPR 2000 and MATH 2200

Survey of research designs, methods, and evaluation techniques applicable to clinical research in the major field. Research proposal and poster presentation required. Participation in a clinical study and IRB review process required.

**RESP 4230 SEMINAR IN RESPIRATORY CARE****3-0-3**

Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C and RESP 4160C

Corequisite: RESP 4210 and RESP 4220 and RESP 4240 and RESP 4255C

Capstone course to prepare for professional transition. Ethics, professional behavior, medical and legal issues, and cultural trends in health care. Students must pass three standardized exit exams to earn a passing grade in the course.

**RESP 4255C CLINICAL PRACTICUM V****0-18-3**

Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C and RESP 4160C  
Corequisite: RESP 4210 and RESP 4220 and RESP 4230 and RESP 4240  
Capstone clinical experience to facilitate transition to RCP. Students will complete advanced rotations in cardiovascular, perinatal, and adult critical care. Students must pass a comprehensive, summative evaluation to earn a passing grade.

**RGTR – Regents' Remediation****RGTR 0198 REGENTS' READING PREPARATION****3-0-3**

Regents' Reading Test preparation, required following an unsuccessful attempt to pass the Regents' Test in reading. Review of strategies for improving vocabulary development, especially contextual, and for increasing reading comprehension corresponding to areas on the Regents' Reading Test—literal, inferential, and analytical. Emphasis on test-taking techniques and practice.

**RGTR 0199 COMPOSITION REVIEW****3-0-3**

Prerequisite: ENGL 1101 and ENGL 1102  
Preparation of students for success on essay portion of Regents' examination through intensive writing of essays.

**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.

**SLPA – Speech/Language Pathology****SLPA 1220 INTRODUCTION TO COMMUNICATION DISORDERS****3-0-3**

Types, characteristics, etiologies, and treatment methodologies of various communication disorders in children and adults.

**SLPA 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. Field experiences required.

**SLPA 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.

**SLPA 3150 NORMAL SPEECH AND LANGUAGE DEVELOPMENT****3-1-3**

Open only to speech-language pathology majors. Phonological, morphological, semantic, syntactic, and pragmatic growth. Observation practicum required.

**SLPA 3410 INTRODUCTION TO AUDIOLOGY****3-1-3**

Open only to speech-language pathology majors. Introduction to etiology, characteristics, assessment, and rehabilitation of individuals with hearing impairments. Directed observation.

**SLPA 3420 LANGUAGE DISORDERS****3-0-3**

Prerequisite: SLPA 3150

Etiology, characteristics, classification, assessment, and treatment of language disorders. Field experiences required.

- SLPA 3430 ORGANICALLY-BASED COMMUNICATION DISORDERS** 3-0-3  
 Prerequisite: SLPA 3150  
 Etiology, characteristics, assessment, and treatment of the disorders of voice, cleft palate, and cerebral palsy. Field experiences required.
- SLPA 3450 ARTICULATION DISORDERS** 3-0-3  
 Prerequisite: SLPA 3150  
 Etiology, characteristics, classification, assessment, and treatment of articulation and phonological disorders. Field experiences required.
- SLPA 4140 NON-VERBAL COMMUNICATION** 3-0-3  
 Prerequisite: SLPA 3150  
 Basic knowledge and usage of various non-verbal communication systems.
- SLPA 4170 INTRODUCTION TO DIAGNOSTIC PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY** 3-0-3  
 Prerequisite: SLPA 3450 and SLPA 3420 and SLPA 3430  
 Corequisite: SLPA 4180 and SLPA 4190  
 Assessment principles and practices in speech-language pathology.
- SLPA 4180 DIRECTED OBSERVATIONS IN SPEECH-LANGUAGE PATHOLOGY** 1-3-3  
 Prerequisite: SLPA 3450 and SLPA 3420 and SLPA 3430  
 Corequisite: SLPA 4170 and SLPA 4190  
 Focused observations of current practices in speech-language pathology.
- SLPA 4190 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY** 3-0-3  
 Prerequisite: SLPA 3450 and SLPA 3420 and SLPA 3430  
 Corequisite: SLPA 4170 and SLPA 4180  
 Introduction to organization, scope, and requirements of clinical practicum.
- SLPA 4210 SENIOR SEMINAR** 3-0-3  
 Prerequisite: permission of instructor  
 Corequisite: SLPA 4450  
 Contemporary issues, principles, and practices specific to speech-language pathology.
- SLPA 4350 SPEECH SCIENCE** 3-0-3  
 Prerequisite: permission of instructor  
 Physiological production, acoustics, physics of speech, analysis of speech, and technology-related instrumentation available to assess the parameters of speech production.
- SLPA 4450 PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY** 0-3-3  
 Prerequisite: SLPA 4170 and SLPA 4180 and SLPA 4190  
 Supervised clinical experience in speech-language pathology.
- SLPA 4500 INTRODUCTION TO RESEARCH IN SPEECH-LANGUAGE PATHOLOGY** 3-0-3  
 Prerequisite: permission of instructor  
 Introduction to scientific methodology and its application to the field of communication disorders.
- SOCI – Sociology**
- 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 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 CRJU 3130.
- SOCI 3150 FAMILY AND ALTERNATIVE LIFESTYLES** 3-0-3  
 Prerequisite: SOCI 1101  
 Institutions having major responsibility for socializing members of society including various forms and types of families.
- 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 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 3400 METHODS OF SOCIAL RESEARCH** 3-0-3  
 Prerequisite: SOCI 1101  
 Methods of applied social research including case studies, record research, experimental designs, surveys, observation, and systems interactions in relation to social data.
- 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 FAMILY VIOLENCE** 3-0-3  
 Prerequisite: CRJU 1010 or SOCI 1101 or permission of the instructor  
 Study of the family as an institution that may produce violent individuals. Correlates of family violence, theoretical explanations, impact on public policy, effects on victims and society. Crosslisted with CRJU 3510.
- SOCI 3950 RESEARCH IN THE SOCIAL AND BEHAVIORAL SCIENCES** V-V-(1-5)  
 Prerequisite: permission of instructor or department head  
 Open only to juniors or above. Uncompensated research assigned 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 five (5) credit hours in one discipline, for a maximum of ten (10) credit hours.
- 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 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 Atlantic and the student's home institution.
- SPAN – Spanish**
- SPAN 1050 SPANISH FOR HEALTH CARE SYSTEMS** 3-0-3  
 Prerequisite: eligibility for ENGL 1101  
 Communications skills to deal with Spanish-speaking patients in a wide variety of clinical situations.
- 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  
 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  
 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  
 Continued development of reading, writing, listening, and speaking skills.
- 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 3031  
 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: permission of instructor or department  
 Grammar and syntax for native speakers.

- SPAN 3111 CIVILIZATION AND CULTURE OF SPAIN** 3-0-3  
Prerequisite: SPAN 2001  
Historical survey from the pre-Roman era to the present.
- SPAN 3120 CIVILIZATION AND CULTURE OF LATIN AMERICA** 3-0-3  
Prerequisite: SPAN 2002  
Historical survey from the pre-Columbian era to the present.
- SPAN 3200 INTRODUCTION TO LITERATURE** 3-0-3  
Prerequisite: SPAN 3031  
Analysis of Hispanic poetry, prose, and drama.
- SPAN 3210 SURVEY OF SPANISH PENINSULAR LITERATURE I** 3-0-3  
Prerequisite: SPAN 3031 and SPAN 3050 and SPAN 3200  
Analytical methods and approaches to the literary tradition in Spain from the jarchas to the Illustration, while including medieval and golden age literature.
- SPAN 3220 SURVEY OF SPANISH PENINSULAR LITERATURE II** 3-0-3  
Prerequisite: SPAN 3031 and SPAN 3050 and SPAN 3200  
Analytical methods and approaches to the literary tradition in Spain from the Illustration 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 3031 and SPAN 3050 and 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 3031 and SPAN 3050 and SPAN 3200  
Analytical methods and approaches to the literary tradition in Spanish America through representative works of the Mexican revolution, Telluric novels, pre-boom, boom, and post-boom.
- SPAN 3510, -20 STUDY ABROAD** 3-0-3  
Prerequisite: SPAN 1002  
A term of study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions. Must have a 3.0 minimum GPA in all previous Spanish course work.
- SPAN 4010 SPECIAL GENRE** 3-0-3  
Prerequisite: SPAN 3200  
Hispanic literature: subject announced when course offered.
- SPAN 4020 SPECIAL AUTHOR** 3-0-3  
Prerequisite: SPAN 3200  
Hispanic literature: subject announced when course offered.
- 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.

- SPAN 4040 SPANISH PHONETICS** 3-0-3  
 Prerequisite: SPAN 2002  
 Spanish phonological system.
- 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 director.
- 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 4900 INDEPENDENT STUDY** 3-0-3  
 Prerequisite: permission of instructor or department and SPAN 2002  
 Open to transient students only with permission of the dean of faculty at Armstrong Atlantic and the student's home college.
- 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.

**SSCI – Social Science****SSCI 2960 FOREIGN LANGUAGE AND CULTURE**

V-V-(1-15)

Prerequisite: permission of the dean of the College of Arts and Sciences

Offered as part of a study abroad or global studies program. Instruction in language and/or culture of a foreign country or people. Crosslisted as HUMN 2960.

**THEA – Theatre****THEA 1100 THEATRE APPRECIATION**

3-0-3

Survey and critical appreciation of theatre.

**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 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 3000 INTRODUCTION TO ACTING**

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 3270 VIDEO LAB**

0-1-1

Prerequisite: ENGL 1102

Practical experience in video production through work on approved projects under supervision of Armstrong Atlantic'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 2201 or PHIL 2251

History and development of cinema from the silent period to the present time. Crosslisted as FILM 3400.

- THEA 3420 ACTING** 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 I** 3-0-3  
 Theatrical art from its beginnings through the Elizabethan period, emphasizing theatrical conventions of Greek, Roman medieval, and Elizabethan theatre.
- THEA 3450 HISTORY OF THEATRE II** 3-0-3  
 Theatrical art of the world, emphasizing theatrical conventions from the Restoration to the present.
- 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 2201 or PHIL 2251  
 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 2201 or PHIL 2251  
 Emphasis on the critical appreciation of film as an art form. Crosslisted as FILM 3500 and JOUR 3500.
- THEA 3510 FILM AND LITERATURE** 3-0-3  
 Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251  
 Relationship between film and literature with special emphasis on the adaptation of literature into film. Crosslisted as FILM 3510.
- THEA 4000 SPECIAL TOPICS IN THEATRE** V-V-3  
 Prerequisite: ENGL 1101  
 Subject announced when course offered. Subjects vary, such as: classical acting styles, absurdist drama, stage combat, scenic painting.
- 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** 3-0-3  
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 Atlantic 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 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.
- THEA 5010U TOPICS IN FILM** 3-0-3  
Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251  
Special topics in film announced when the course is offered. Crosslisted as FILM 5010U.
- THEA 5020U FILM THEORY AND CRITICISM** 3-0-3  
Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251  
Introduction to the history of film theory and criticism, including classical and contemporary film theories and their applications to film criticism. Examination of classical film aesthetics, form, language realism and formalism as well as contemporary approaches to film criticism. Application of various theoretical perspectives to selected filmic texts. Crosslisted as FILM 5020U.
- Business Education Courses (Savannah State University)**
- ACCT – Accounting**
- ACCT 2101 PRINCIPLES OF FINANCIAL ACCOUNTING** 3-0-3  
Prerequisites: MATH 1111 and CSCI 1130  
A study of the underlying theory and application of financial accounting concepts.
- ACCT 2102 PRINCIPLES OF MANAGERIAL ACCOUNTING** 3-0-3  
Prerequisite: ACCT 2101  
A study of the underlying theory and application of managerial accounting concepts.
- BUSA – Business Administration**
- BUSA 1100 INTRODUCTION TO BUSINESS** 3-0-3  
An integrative study of the functional areas of business (finance, operations, marketing, human resources, etc.)
- BUSA 2105 COMMUNICATING IN THE BUSINESS ENVIRONMENT** 3-0-3  
Prerequisites: ENGL 1101 and 1102 and CSCI 1130  
A course emphasizing both interpersonal and organizational communications; to include written and oral exercises appropriate to business practice.
- BUSA 2106 THE ENVIRONMENT OF BUSINESS** 3-0-3  
Prerequisite: BUSA 1100  
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 of demographic diversity on organizations.

**BUSA 4125 PUBLIC POLICY****3-0-3**

Prerequisite: MGNT 3165

This course examines the external environment of the firm and ways in which the environment influences business decision making and business operations. It integrates all parts of business environment into a balanced analysis of the whole business system and develops a conceptual framework that can be helpful in business policy formulation. The course also attempts to forecast the future shape of business and its environment.

**BUSA 4126 BUSINESS POLICY****3-0-3**

Prerequisite: All FKB courses

Open to seniors only. This is a capstone course in the College of Business Administration and is required of all seniors. The course integrates subject matter from the business core courses and other disciplines. This course focuses on integrated approaches to medium and long-term organizational challenges in a dynamic environment. Students will develop skills in, and appreciation of, the role of all managers in the formulation and implementation of organizational strategies.

**CISM – Computer Information Systems****CISM 3135 ADVANCED COMPUTER APPLICATIONS IN BUSINESS****3-0-3**

Open to juniors and above. This course is designed to expose students to various software and hardware so they can use current technology to solve real-world business problems. The course will include spreadsheet software, graphics software, presentation software, and database management software. Students will explore the Internet, including e-mail, telnet, gopher, FTP, World Wide Web, Web page publishing, and browser usage.

**ECON – Economics****ECON 2105 PRINCIPLES OF MICROECONOMICS****3-0-3**

Prerequisites: MATH 1111 and BUSA 1100

This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze the structure and performance of the market economy.

**ECON 2106 PRINCIPLES OF MACROECONOMICS****3-0-3**

Prerequisites: MATH 1111 and BUSA 1100

This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze economics aggregates and evaluate economic policies.

**ECON 3145 GLOBAL BUSINESS ISSUES****3-0-3**

Prerequisites: ECON 2105 and ECON 2106 and junior standing

This course is designed to provide a survey of environmental factors such as culture, economics, law, and politics, which affect international business decision-making. The impact of the globalization of markets and competition as well as the increasing role of multinational corporations is emphasized.

**FINC – Finance****FINC 3155 BUSINESS FINANCE****3-0-3**

Prerequisites: ECON 2105 and ECON 2106 and ACCT 2102 and QUAN 2182

Open to junior and above. This course is designed to introduce financial management of non-financial corporations and the role of interest rates and capital markets in the economy. Topics include the structure and analysis of financial statements, time value of money calculations (using financial calculators), stock and bond valuation, financial forecasting, valuation of income-producing physical assets, determination of the cost of capital, the profitability of proposed investments in fixed assets, risk-return tradeoffs that must be considered in using financial

leverage, and methods used in obtaining funds from the various capital markets. This course is taught mainly through lectures and class discussions of textual materials and problems.

## **MGNT – Management**

### **MGNT 3165 ORGANIZATIONAL BEHAVIOR AND THEORY 3-0-3**

Prerequisites: ECON 2105 and ECON 2106

This course is concerned with the study of management theory and practice and their impact on organizations. Individual and group behavior within organizations and their relationship to the management of the organization are topics of study. Additionally, a number of important topics are covered, such as the functions and structures of management in the organizational environment, communications, leadership, human resource management, and organizational development and change, and their effect on both productivity and performance. Emphasis is placed upon an understanding of the social, psychological, and cultural aspects of the work situation.

### **MGNT 3167 MANAGEMENT OF TECHNOLOGY 3-0-3**

Prerequisites: MGNT 3165 and CISM 3135

This course is designed to train future business managers—the users of information technology systems to use all the tools necessary to exploit information technology. The course will train students to develop an information systems strategy that will support the business strategy by exploiting current information technologies. The course will also review the functions of information systems in a business organization, critical success factors of introducing new technology, and the steps of introducing new information systems into organizations.

## **MKTG – Marketing**

### **MKTG 3175 PRINCIPLES OF MARKETING 3-0-3**

Prerequisites: ECON 2105

This course provides a comprehensive overview of the marketing process for goods, services, and ideas. The course is taught from a marketing management and decision-making perspective. Topics such as the organization's environment, marketing research, and buyer behavior are discussed as the context in which marketing plans and strategy are formulated. In addition, the marketing decision elements, product, distribution, promotion and price, are examined. Finally, topics such as international marketing, services marketing, and nonprofit marketing are explored.

## **QUAN – Quantitative Methods**

### **QUAN 2181 QUANTITATIVE METHODS OF BUSINESS I 3-0-3**

Prerequisite: MATH 1111

This course covers the necessary elements of statistics, analytic geometry, and calculus needed to develop a mathematical foundation for advanced business studies.

### **QUAN 2182 QUANTITATIVE METHODS OF BUSINESS II 3-0-3**

Prerequisite: QUAN 2181

This course provides an introduction to the methods of scientific inquiry and statistical inference. Subjects covered are sampling, parameter estimating, hypothesis testing, determination of the nature and strength of relationships among variables, decision theory, time series analysis and non-parametric methods. The course develops the student's proficiency in the use of statistical software. Spreadsheets and statistical packages are used extensively.



**QUAN 3185 QUANTITATIVE METHODS AND PRODUCTION  
MANAGEMENT****3-0-3**

Prerequisite: QUAN 2182 and junior standing

This course introduces the student to selected advanced quantitative methods. It is designed to facilitate the development of a basic understanding of operations management from the strategic viewpoint through Shop Floor Control Methodology.

**CJTC – Criminal Justice Training Center Courses****CJTC 0071 BASIC LAW ENFORCEMENT SERVICES****6-1-5**

Prerequisites: admission to the basic law enforcement mandate training program

An introduction to the fundamentals of criminal investigation, crime scene processing, fingerprinting, law enforcement, report writing, interviews and interrogation, and ethics.

**CJTC 0072 BASIC LAW****5-0-5**

Prerequisites: admission to the basic law enforcement mandate training program

Georgia criminal justice system, Georgia law, rules of evidence, criminal procedures, and officer liability.

**CJTC 0073 BASIC LAW ENFORCEMENT PROCEDURES****5-V-5**

Prerequisites: admission to the basic law enforcement mandate training program

Topics include cultural diversity, police patrol, courtroom testimony, NCIC/GCIC communications and officer survival.

**CJTC 0074 BASIC TRAFFIC SERVICES****3-V-3**

Prerequisites: admission to the basic law enforcement mandate training program

Traffic enforcement, traffic control, motor vehicle law, and accident reporting.

**CJTC 0075 BASIC LAW ENFORCEMENT SKILLS****3-V-3**

Prerequisites: admission to the basic law enforcement mandate training program

Firearms, mechanics of arrest, first aid/CPR, stress reduction, and universal precautions.

**CJTC 0076 COMMUNITY RELATIONS****3-0-3**

Prerequisites: admission to the basic law enforcement mandate training program

Interpersonal communication skills, media relations, crisis intervention, community policing, crime prevention, hazardous materials, and mental retardation.

**CJTC 0077 LAW ENFORCEMENT PRACTICUM****0-V-6**

Prerequisites: admission to the basic law enforcement mandate training program

Performance-based training in the areas of firearms, crime scene processing, vehicle pullovers, fingerprinting, traffic direction and control, mechanics of arrest and booking procedures, critical incident management, hazardous materials, and law enforcement report writing.

**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 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 BASIC FIELD INTERNSHIP** V-V-5  
Intense summer program conducted at Ft. Knox, Kentucky for six weeks. Designed as an alternative method to meet the prerequisites 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 direction 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 (ADVANCED CAMP)** 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** V-V-5  
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** 1-3-2  
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.

### **NSCI – Naval Science Courses**

- NSCI 1001 INTRODUCTION TO NAVAL SCIENCE** 2-0-2  
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. *Fall*.

### **NSCI 1002 SEAPOWER AND MARITIME AFFAIRS**

3-0-3

A survey of American Naval and Maritime history from the American Revolution 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. *Spring*.

### **NSCI 1003 SAILING**

2-2-3

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 capsized; return to dock and secure. *Spring*.

### **NSCI 2001, -2 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. Celestial navigation is covered in depth. 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. *Fall/Spring Sequence*.

### **NSCI 3001 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 or the theory and design of steam, gas turbine and nuclear propulsion, shipboard safety and firefighting are also covered. *Spring*.

### **NSCI 3002 EVOLUTION OF WARFARE**

5-0-5

Open only to juniors and seniors. 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. *Fall*.

### **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. *Fall*.

**NSCI 4002 AMPHIBIOUS WARFARE****5-0-5**

Open only to juniors and seniors. 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. *Spring.*

**NSCI 4003, -4 ADVANCED LEADERSHIP AND MANAGEMENT I AND II****1-0-1**

Prerequisite: promulgated by commanding officer

A study of leadership responsibilities of a junior naval officer. These courses are intended to help the student develop leadership abilities that they can use in an ethical manner. Items of study will include: case studies in leadership and the ethical use of power and authority; military justice; directive and correspondence; naval personnel administration; material management and maintenance; and the navy supply system. The student will prepare for the personnel and professional responsibilities of a junior officer. *Fall/Spring Sequence.*

**NSCI 4005 ADVANCED LEADERSHIP AND MANAGEMENT III****1-0-1**

Prerequisite: NSC 4003

Open only to seniors. Personnel administration for the U.S. Marine Corps junior officer. Topics covered will include: directive and correspondence; Marine Corps personnel administration; material management and maintenance; and the Marine Corps supply system. The student will prepare for the personnel and professional responsibilities of a junior Marine Corps leader. *Spring.*

**NSCI 4500 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 4500 is required every semester for all NROTC students.) *Fall and Spring.*

# Special Programs

## STUDY ABROAD

Study abroad programs (SAP) of the University System of Georgia provide students with a multitude of opportunities to study abroad while earning academic credit toward completion of the degree requirements at their home campus. SAP currently offers summer study programs in countries around the world: Russia, Estonia, Canada, Israel, Argentina, Brazil, Costa Rica, Mexico, China, Japan, Australia, Ethiopia, Tanzania, the Ivory Coast, France, Germany, Italy, and Spain. Semester and academic year opportunities are available in several countries in Europe.

Studying abroad enables students to increase their fluency in a foreign language, 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 students with a minimum cumulative grade point average of 2.5; however, certain programs may require a higher grade point average and completion of prerequisites. Graduate students are required to have a 3.0 grade point average. 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 scholarships are available from some system institutions. For further information, contact the international student services office on campus, or the system coordinator for study abroad programs, International Services and Programs, the University of Georgia, Athens, GA 30602. Phone 706/542-1557 and fax 706/542-6622.

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## LEARNING SUPPORT

### Faculty

Cynthia Geoffroy, Department Head

Beth Childress

Dianne Jones

Denice Josten

Edward Oglesby

Nancy Remler

Edwin Richardson

Carolyn Smith

### General Information

The Department of Learning Support meets the academic needs of students who require structured learning support before they attempt core curriculum courses. The department serves students who are required to enroll in remediation courses according to university system or institutional placement standards. Students may elect to take learning support courses without penalty in order to prepare for the core. The department also administers the Regents' remediation course in reading. Limited admission students must enroll in accordance with the stipulations of their admission (see the Limited Admission section of this catalog). All students taking any learning support course will be advised and registered by full-time members of the learning support department.

### Progress Requirements

Students may not accumulate more than twenty hours of college-level credit before completing all learning support requirements. Students still required to take learning support courses after completing twenty semester hours may register only for required learning support courses.

Students not passing MATH 0097 or ENGL 0098 after two semesters in the course will be suspended and may not be considered for readmission within one year of suspension. Part of the

appeal to return may include passing a departmental exam covering topics from the first level course, writing an essay, or taking the CPE.

Students not passing ENGL 0099, MATH 0099, or READ 0099 after two semesters in the course will be suspended. A student may not be considered for readmission within one year of suspension. Before being suspended, a student may be allowed to appeal for **one additional course**. Such a student must be individually evaluated and determined to have a reasonable chance for success. If granted the additional course, the student may enroll only in that learning support course.

Students not completing requirements for an area in three semesters will be suspended, and may not be considered for readmission within three years of the suspension. Prior to such a suspension, a student may be allowed to appeal for **one additional course**, if the following criteria are met: (1) the student is individually evaluated and determined to have a reasonable chance for success; (2) the student is in an exit level course; and (3) the student has reached the limit on attempts in only one learning support area. If granted the additional course, the student may enroll only in the learning support course.

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## BASIC LAW ENFORCEMENT CERTIFICATE

### Faculty

Gregory Sewell, Department Head

John Eustace

Robert Keele

Wynn Sullivan

Warren Washington

Maurice Watkins

### General Information

The Basic Law Enforcement Certificate Program enables students to become candidates for Georgia law enforcement certification. Students wishing to enroll in this certificate program must come to the Criminal Justice Training Center for advisement and a detailed admittance package.

### Admission Requirements

Traditional applicants must have a high school diploma or have completed the GED satisfactorily, and have SAT/ACT scores. Applicants are exempt from CPC requirements, but must take the CPE or COMPASS examinations if SAT/AT scores are lower than 430 verbal and/or 400 math.

Non-traditional applicants are those who have not attended high school or college within the previous five years and have earned fewer than 15 transferable semester hours of college credit. Such applicants must have a high school diploma or have completed the GED satisfactorily. They are exempt from SAT/ACT and CPC requirements, but CPE or COMPASS examinations are required unless students report SAT/ACT scores at the 430 verbal and 400 math levels or above.

For students who take no courses with a learning support prerequisite in an area (or areas) the learning support requirements in that area (or areas) are not mandatory.

A transfer applicant with fewer than 30 transferable semester hours will be subject to traditional applicant standards unless he or she meets the definition of a non-traditional student. Applicants having 30 or more transferable semester hours must have a grade point average of at least 2.0.

Any student admitted to a certificate program who chooses to pursue an Armstrong Atlantic State University degree must meet all university and program admission requirements.

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## MILITARY SCIENCE (Army ROTC)

### Faculty

Captain Zane Jones, Department Head  
Kattie Tisdale  
Tommie Pullins

### General Information

The Army Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC) Instructor Group, staffed by active army personnel. The department provides a curriculum available to Armstrong Atlantic State University 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 U.S. 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 both 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 advanced course 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. A small number of outstanding students are designated Distinguished Military Graduates and are offered commissions in the regular army each year.

### 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 Atlantic 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.

## 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 a basic summer camp of five weeks duration prior to entering the advanced program. Students attending the basic camp 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 or wear the uniform, nor receive credit toward commissioning or enlisted grade status through completion of ROTC courses.

## Advanced Summer Camp

Students contracting to pursue the advanced courses are required to attend advanced summer camp, normally between their junior and senior academic years at Fort Lewis, Washington. MILS 2250, MILS 3350, MILS 3351.

## Financial Assistance

All contracted advanced course cadets are paid a subsistence allowance of \$150 per month while enrolled in the program.

## 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 \$150 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 quarter prior to advanced camp the student will enroll in MILS 3302 to prepare for attendance at advanced camp. MILS 2001 - The Evolution of Military Warfare is normally taken spring semester of the senior 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 five designed fields of study (some of these requirements may be waived for nursing majors). The five 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, and ENGL 1102H
- Human Behavior: PSYS 1101, SOCI 1101, HIST 1111, HIST 1112, and ANTH 1101
- Math Reasoning: MATH 1011 and MATH 1113
- Military History: MILS 2001
- Computer Literacy: CSCI 1112, CSCI 1301, and CSCI 2060

## **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 C or better in any of the following upper division military science courses: MILS 1101, MILS 1102, MILS 2201, MILS 2202, MILS 2250, MILS 3302, MILS 4401, MILS 4402, MILS 2001.

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## NAVAL SCIENCE (Naval ROTC)

### Faculty

Commander Welch Fair, Jr., USN, Department Head

Commander James Hicks, USN

Lt. Otto Willis, USN

GY Sgt. William Meekins, USMC

YNC Arthur Best, III, USN

Major Drexel Heard, USMC

Lt. Seth Kovensky, USN

SKC Roberto Novoa, 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.

The department offers a minor in naval science. The program is designed to prepare the student for a commission in the U.S. Navy and is required of those NROTC students who will obtain a commission. All course work must be completed with a grade of C or better.

### Minor

Seventeen semester hours consisting of the following:

NSCI 1001 Introduction to Naval Science

NSCI 1002 Seapower and Maritime Affairs

NSCI 2001 Navigation I

NSCI 2002 Navigation II

NSCI 3001 Naval Ships Systems I (engineering)

NSCI 4001 Naval Ships Systems II (weapons)

### Non-Scholarship Navy College Program Midshipmen

These students must complete one year of math, college algebra or higher, by the end of the junior year and one year of physical science by the end of the senior year as a prerequisite for commissioning. The physical science requirement can be met by completing a one year sequence, or two courses in any area of physical science. One mathematics course may be selected from the field of computer science or statistics.

### Marine Corps Option

All Marine Corps option students shall take, during the junior or senior year, one course in military history and one in political science (6 hours total) from a list approved by the professor of naval science.

### NROTC Uniforms, Books, and Instructional Materials

NROTC uniforms, books, and special instructional materials will be issued at no charge to naval scholarship and college program students. Uniforms must be returned upon exit from the NROTC Program. Books and other instructional materials must be returned at the completion of each academic term.

## Scholarships

Scholarships are available to qualified students for tuition, fees, books, and laboratory expenses. The programs can pay for up to four years of expenses and includes a \$150 per month tax free stipend. Additionally, the professor of naval science has five scholarships to be awarded to qualified high school graduates.

## Financial Assistance

All midshipmen in the advanced NROTC Program (junior and senior years) are paid a \$150 per month tax-free stipend.

## Summer Training Cruises

Scholarship midshipmen will go on summer training cruises during three of their summer inter-term periods. Other midshipmen will attend summer training cruises based on their scholarship programs.

## PROGRAM OF STUDY

### ALL MIDSHIPMEN:

NSCI 1001, 1002, 1003 .....	8 hours
Business Management .....	3 hours

(Courses satisfying the management requirement will be promulgated by the professor of naval science.)

### Advanced Program - Navy Option:

NSCI 2001, 2002 .....	6 hours
NSCI 3001 .....	3 hours
NSCI 4001, 4003, 4004 .....	5 hours

### Advanced Program - Marine Corps Option:

NSCI 3002 .....	5 hours
NSCI 4002, 4003, 4005 .....	7 hours

### Additional and Substitute Requirements:

NSCI 4050, Naval Drill (0-2-0), is required each academic term of all midshipmen.  
NSCI 1003 and 5040 satisfy the university physical education requirement.

### Navy Scholarship Midshipmen (additional requirements):

One year of calculus (completed by the junior year) .....	6 hours
One year of calculus-based physics (completed by 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.)

# 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 Atlantic State University. An asterisk indicates full graduate faculty status.

- Aenchbacher, Louis E., III (1980)**  
Athletic Director  
Associate Professor of Physical Education  
Ed.D., University of Georgia  
M.Ed., University of Georgia  
B.S., Armstrong State College
- \* Agyekum, Stephen K. (1979)**  
Professor of Education  
Ed.D., University of Georgia  
M.A., University of Georgia  
A.B., Johnson C. Smith University
- Andersen, Jody C. (1996)**  
Assistant Professor of Physical Therapy  
Ph.D., Ohio University  
M.S., Texas Women's University  
B.S., Mankato State University
- Anderson, Gregory (1996)**  
Director, Academic Orientation and Advisement  
Instructor of Education  
M.Ed., University of South Carolina  
B.A., Bridgewater State College
- \* Anderson, James N. (1985)**  
Head of Art, Music & Theatre Department  
Professor of Music  
Ph.D., University of Texas-Austin  
M.M., University of Houston  
B.M.E., Wichita State University
- \* Andrews, Carol M. (1988)**  
Associate Professor of English  
Ph.D., Vanderbilt University  
M.A., Vanderbilt University  
B.A., Furman University
- \* Arens, Olavi (1974)**  
Professor of History  
Ph.D., Columbia University  
M.A., Columbia University  
A.B., Harvard University
- Awong-Taylor, Judy (1993)**  
Assistant Professor of Biology  
Ph.D., University of Florida  
M.S., University of Florida  
B.S., University of the West Indies
- \* Baker, Christopher P. (1994)**  
Professor of English  
Ph.D., University of North Carolina  
M.A., University of North Carolina  
B.A., St. Lawrence University
- Ball, A. Patricia (1968)**  
Associate Professor of Library Science  
Sc.D., Nova University  
M.S., Atlanta University  
A.B., Fisk University
- \* Barnard, Jane T. (1980)**  
Associate Professor of Mathematics  
Ed.S., Georgia Southern College  
M.S., Georgia Southern College  
B.S., Georgia Southern College
- Barton, Robin (1995)**  
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Ed.D., College of William and Mary  
Ed.S., College of William and Mary  
M.Ed., Virginia Commonwealth University  
B.S., Towson State University
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Assistant Professor of Education  
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B.S., Savannah State College
- Bennett, Katherine (1997)**  
Associate Professor of Criminal Justice  
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M.C.J., University of South Carolina  
B.S., University of South Carolina-Spartanburg
- \* Bergin, Joyce (1992)**  
Associate Professor of Education  
Ed.D., East Texas State University  
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M.L.S., Texas Woman's University  
B.A., Virginia Polytechnic Institute
- \* Beumer, Ronald J. (1975)**  
Professor of Biology  
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 Ph.D., University of North Carolina-  
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Associate Professor of Special Education  
 Ph.D., Purdue University  
 M.A., Hampton Institute  
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Assistant Professor of Chemistry  
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 B.S., University of the West Indies

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Assistant Professor of Music  
 Ph.D., University of Missouri-Kansas City  
 M.M.E., Florida State University  
 B.M.E., Bradley University

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Vice President for Student Affairs  
 Ed.D., University of Georgia  
 M.S., Florida State University  
 B.A., Auburn University

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Assistant Dean of Health Professions  
 Professor of Nursing  
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 M.S.N., Medical College of Georgia  
 B.S.N., Boston University

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Interim President  
 Professor of Physics  
 Ph.D., Rensselaer Polytechnic  
 B.S.E.S., University of Miami

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 M.Sc., University of London  
 B.Sc., City of Leicester Polytechnic

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Associate Professor of Chemistry  
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 M.S.N., Medical College of Georgia  
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 M.A., University of Missouri-Columbia  
 B.A., Oklahoma Christian College

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 M.S., University of North Carolina-  
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 A.A., Lake-Sumter Junior College

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 Ed.D., University of Georgia  
 M.Ed., Valdosta State College  
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 Ph.D., University of Iowa  
 M.Ed., South Carolina State College  
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 M.A., New York University  
 B.A., Temple University

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- Clark, Sandra H. (1990)**  
Assistant Professor of Nursing  
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Associate Professor of Physical Education  
Ed.D., Oklahoma State University  
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Acting Head of Middle/Secondary Education  
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Assistant Professor of Middle Grades  
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Ed.D., University of Arkansas  
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Ph.D., University of Oregon  
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- Council, Roger L. (1991)**  
Professor of Physical Education  
Ed.D., Indiana University  
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- Coursey, Teresa (1971)**  
Assistant Professor of Dental Hygiene  
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Assistant Professor of Health Science  
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Assistant Professor of Library Science  
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Assistant Professor of Spanish  
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M.A., University of Virginia  
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- DeMarco, Mary Lou (1998)**  
Assistant Professor of Radiation Therapy  
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- \* **Donahue, Michael E. (1993)**  
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 Assistant Professor of Library Science  
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 Head of Department of Learning Support  
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 Head of Radiologic Sciences  
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- Gleeson, David (1997)**  
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- Green, Rachel (1992)**  
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- Greenlaw, Raymond (1998)**  
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 Professor of Computer Science  
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 Professor of Biology  
 Ph.D., Louisiana State University  
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- Hall, Donald (1998)**  
 Associate Professor of Education  
 Ph.D., Ohio University  
 M.Ed., Westminster College  
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 B.A., Gettysburg College

**Hampton, Edwin Kevin (1996)**

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**Hardegree, Lester E., Jr. (1982)**

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**Harris, Henry E. (1966)**

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**Harris, Robert L. (1981)**

Professor of Music  
D.M.A., University of Washington  
M.M., University of the Pacific  
B.M., University of the Pacific

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Associate Professor of Nursing  
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**\* Harwood, Pamela L. (1985)**

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**\* Hendricks, Christopher E. (1993)**

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**Hobe, John J. (1991)**

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M.A., California State University  
B.S.Ed., Bowling Green State University

**Holcomb, Gary (1996)**

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B.A., California State University

**\* Hollinger, Karen (1990)**

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Associate Professor of Mathematics  
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**Hopkins, June (1998)**

Assistant Professor of History  
Ph.D., Georgetown University  
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M.P.A., Pace University  
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**Hopkinson, Caroline (1989)**

Assistant Professor of Library Science  
M.L.I.S., University of Wisconsin-Milwaukee  
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M.A., University of Chicago  
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**Hyde, Linda (1995)**

Assistant Professor of Biology  
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B.A., University of Delaware

**\* Jamison, Carol P. (1993)**

Assistant Professor of English  
Ph.D., University of Georgia  
M.A., University of South Alabama  
B.A., University of Montevallo



**Jaynes, Michael L. (1976)**

Assistant Professor of Physics  
M.S., University of North Carolina  
B.A., Appalachian State University

**Jensen, John G. (1985)**

Associate Professor of Art  
M.F.A., University of Arizona  
B.S., University of Wisconsin

**Jensen, Linda G. (1985)**

Associate Professor of Art  
M.F.A., Memphis State University  
M.A.T., Memphis State University  
B.A.E., University of Mississippi

**Jodis, Stephen (1990)**

Associate Professor of Computer Science  
Ph.D., Auburn University  
M.S., Auburn University  
B.C.P.E., Auburn University

**Johnson, Mark (1997)**

Assistant Professor of Music  
M.M., Louisiana State University  
B.M.E., Murray State University

**Jones, Dianne (1990)**

Assistant Professor of Mathematics  
M.Ed., William Carey College  
B.S., Mississippi State University

**\* Josi, Don (1996)**

Associate Professor of Criminal Justice  
Ph.D., University of California-Irvine  
M.A., California State University  
B.A., California State University

**Josten, Denice (1992)**

Assistant Professor of Reading  
Ph.D., Southern Illinois University  
M.M., Southern Illinois University  
B.M., Southern Illinois University

**Kearnes, John (1988)**

Associate Professor of Political Science  
Ph.D., University of Utah  
M.A., Andrews University  
B.A., Union College

**Keller, Carola (1970)**

Assistant Professor of Nursing  
M.S.N., Medical College of Georgia  
B.S.N., University of Virginia

**Kempke, Suzanne (1992)**

Assistant Professor of Biology  
M.S., University of Illinois  
M.A., Northwestern University  
A.B., University of Illinois  
B.S., University of Illinois

**Khan, Ritin (1992)**

Assistant Professor of Biology  
Ph.D., George Washington University  
M.A., American University  
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**\* Kilhefner, Dale Z. (1973)**

Professor of Mathematics  
Ph.D., Pennsylvania State University  
M.S., Purdue University  
M.Ed., Washington State University  
B.S., Elizabethtown College

**Knorr, Virginia W. (1973)**

Assistant Professor of Physical Education  
M.S., University of Tennessee-Knoxville  
B.S., University of Tennessee-Chattanooga

**Kolodny, Robert A. (1991)**

Associate Professor of Chemistry  
Ph.D., University of Georgia  
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**Koth, Andreas W. (1991)**

Assistant Professor of Physical Education  
M.Ed., Georgia Southern College  
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Head of Physical Therapy Department  
Professor of Physical Therapy  
Ph.D., Texas Tech University  
M.S., Indiana State University  
B.S., University of California

**Lamb, Deborah (1998)**

Instructor of Radiologic Sciences  
M.H.S., Armstrong Atlantic State University  
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Associate Professor of Physical Therapy  
Ed.D., Nova University  
M.S., Long Island University  
B.S., Indiana University

**Lane, Joseph M., Jr. (1970)**

Professor of Psychology  
Ph.D., University of Georgia  
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Associate Professor of Biology  
Ph.D., University of Oregon  
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Director of Library Services  
Assistant Professor of Library Science  
M.L.S., University of Wisconsin  
B.A., University of Wisconsin  
B.A., Yon Sei University

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Associate Professor of Health Science  
Ph.D., Auburn University  
M.B.A., Nova University  
B.S., University of Florida

**Leo, John (1996)**

Assistant Professor of Mathematics  
Ph.D., Louisiana State University  
M.S., Louisiana State University  
B.A., Whitman College

**Lesser, Lawrence (1999)**

Associate Professor of Mathematics  
Ph.D., University of Texas-Austin  
M.S., University of Texas-Austin  
B.A., Rice University

**Loyd, Robert (1997)**

Assistant Professor of Special Education  
Ph.D., University of Missouri-Columbia  
M.Ed., University of Missouri-Columbia  
B.S.Ed., University of Missouri-Columbia

**Lynch, Will E. (1993)**

Assistant Professor of Chemistry  
Ph.D., Wayne State University  
B.A., Kalamazoo College

**MacGowan, Catherine E. (1993)**

Assistant Professor of Chemistry  
Ph.D., University of Akron  
M.S., University of Colorado  
B.S., University of Michigan-Dearborn

**\* Martin, Grace B. (1980)**

Interim Dean of Arts and Sciences  
Professor of Psychology  
Ph.D., Florida State University  
M.S., Florida State University  
B.A., Armstrong State College

**Martin, Keith W. (1992)**

Associate Professor of Engineering Studies  
Ph.D., Clemson University  
M.S., University of Georgia  
B.S., University of Georgia

**Martin, William B. (1980)**

Assistant Professor of English  
M.A., Duke University  
B.A., Armstrong State College

**Massey, Carole M. (1976)**

Associate Professor of Nursing  
Ed.D., University of Georgia  
M.S.N., Medical College of Georgia  
B.S.N., Medical College of Georgia

**McFadden, Cheryl (1997)**

Assistant Professor of Elementary Education  
Ed.D., Widener University  
M.A., Villanova University  
B.S., University of North Carolina

**McGrath, Richard (1997)**

Assistant Professor of Economics  
Ph.D., University of Virginia  
M.A., University of Virginia  
B.A., Framingham State College

**McMillan, Tim (1990)**

Assistant Professor of Mathematics  
Ph.D., University of Florida  
M.S., University of Florida  
B.S., University of South Carolina

**\* Megathlin, William L. (1971)**

Dean of Academic and Enrollment Services  
Professor of Criminal Justice  
Ed.D., University of Georgia  
M.Ed., University of Georgia  
B.A., Presbyterian College

**Mellen, Peter J. (1993)**

Assistant Professor of Drama/Speech  
Ph.D., Bowling Green State University  
M.A., Bowling Green State University  
B.A., Bowling Green State University

**Mengle, Janice (1984)**

Assistant Professor of Dental Hygiene  
M.H.S., Armstrong State College  
B.S., Armstrong State College

**Meyer, Mary Louise (1997)**

Assistant Professor of Middle Grades Education  
M.S., Dowling College  
B.A., Christian Education

**Miller, Jill (1998)**

Assistant Professor of Art History  
Ph.D., University of Minnesota-Minneapolis  
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B.A., Moorhead State University

**Miller, Mary (1970)**

Associate Professor of Nursing  
 Ed.D., University of Georgia  
 M.S.N., Medical College of Georgia  
 B.S.N., Medical College of Virginia

**Mincer, Andi Beth (1996)**

Assistant Professor of Physical Therapy  
 M.S., Georgia State University  
 B.S., University of Florida  
 A.A., Pensacola Junior College

**Moore, Marsha S. (1996)**

Assistant Professor of Education  
 M.Ed., Savannah State College and  
 Armstrong State College  
 B.A., Columbia College

**Munson, Richard E. (1972)**

Professor of Mathematics  
 Ph.D., Rutgers University  
 M.S., Rutgers University  
 B.A., Houghton College

**\* Murphy, Dennis D. (1981)**

Professor of Criminal Justice  
 J.D., University of Florida  
 Ph.D., University of Florida  
 M.Ed., University of Florida  
 B.A., University of Florida

**Neuman, Bonnie (1990)**

Associate Professor of Nursing  
 Ph.D., Wayne State University  
 M.S.N., Wayne State University  
 B.S.N., University of Michigan

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Dean of Education  
 Professor of Education  
 Ed.D., University of Georgia  
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**Nordenhaug, Erik (1995)**

Assistant Professor of Philosophy  
 Ph.D., Emory University  
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 B.A., Mercer University

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Professor of English  
 Ph.D., University of Georgia  
 M.A., University of Leicester  
 B.A., State University of New York

**Oglesby, Edward (1994)**

Assistant Professor of Mathematics  
 M.Ed., Savannah State College  
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 B.A., Savannah State College

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Professor of Psychology  
 Ed.D., University of South Carolina  
 Ed.S., Georgia Southern College  
 Ed.M., Temple University  
 B.S., University of Georgia

**Parham, Robert (1998)**

Head of Department of Languages, Literature,  
 and Philosophy  
 Professor of English  
 Ph.D., Florida State University  
 M.S., Florida State University  
 B.A., Belmont College

**Paul, Chris (1999)**

Head of Department of Economics  
 Professor of Economics  
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**\* Powell, Catharine L. (1991)**

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 Ed.D., Indiana University  
 M.S., University of North Carolina  
 B.S.N., DePauw University

**\* Price, Michael E. (1993)**

Assistant Professor of History  
 Ed.D., University of Georgia  
 M.A., University of Georgia  
 B.A., Kansas State University

**Pruden, Ethel B. (1985)**

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 M.N., University of South Carolina  
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Professor of History  
 Ph.D., American University  
 M.A., American University  
 M.Ed., University of South Carolina  
 B.A., Wake Forest

**Raines, Helon (1994)**

Associate Professor of English  
 Ph.D., University of Denver  
 M.A., University of Southern Mississippi  
 B.S., Mississippi Southern College

**Reese, Deborah (1999)**

Assistant Professor of English  
M.A., The University of Texas-Arlington  
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**Reese, Randall (1994)**

Assistant Professor of Music  
M.M., University of Michigan  
B.M., Baldwin Wallace College Conservatory

**Reilly, Nancy E. (1990)**

Associate Professor of Nursing  
Ph.D., University of Michigan  
M.S., University of Michigan  
B.S.N., Georgetown University

**Relyea, Kenneth (1990)**

Head of Biology Department  
Professor of Biology  
Ph.D., Tulane University  
M.S., Florida State University  
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**Remler, Nancy (1992)**

Assistant Professor of English  
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Dean of Health Professions  
Professor of Nursing  
Ph.D., University of Pittsburgh  
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B.S.Ed., Temple University

**\* Rhee, Steve Y. (1974)**

Professor of Political Science  
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M.A., University of Oregon  
B.A., University of Oregon

**Richardson, Edwin G. (1989)**

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M.A., University of Maine  
B.A., University of South Florida

**Rinalducci, Edward (1999)**

Assistant Professor of Sociology  
M.S., Mississippi State University  
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**Roberts, Lynn T. (1989)**

Assistant Professor of Physical Education  
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**Robinson, Howard O. (1998)**

Assistant Professor of History  
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M.A., Alabama State University  
B.A., Alabama State University

**Roby, Lisa (1999)**

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M.Ed., Georgia College and State University  
B.Ed., Mercer University  
A.Ed., Macon College

**Rodgers, Anne T. (1985)**

Professor of Medical Technology  
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M.A.T., University of Massachusetts  
B.A., Ohio Wesleyan University

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M.L.S., University of Kentucky  
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**Schmidt, John C. (1979)**

Professor of Art  
M.F.A., Ohio University  
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**Schollaert, Warren L. (1989)**

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Ed.D., University of Georgia  
M.A., Roosevelt University  
B.A., Arizona State University

**Schuberth, Christopher A. (1996)**

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Director of Troops to Teachers Program  
M.S., New York University  
B.S., City College of New York

**Schultz, Lucinda D. (1986)**

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D.M.A., University of Colorado  
M.M., Colorado State University  
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Ph.D., Rutgers University  
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Assistant Professor of Psychology  
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- Shiple, Charles (1972)**  
Professor of Computer Science  
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- Silcox, Elaine (1972)**  
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Assistant Professor of Political Science  
Ph.D., University of Wisconsin  
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- Smith, James (1990)**  
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Ph.D., Vanderbilt University  
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- Smith, Thomas (1999)**  
Assistant Professor of Biology  
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B.S., State University of New York-Oswego
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- Wallace, Richard (1995)**  
Associate Professor of Chemistry  
Ph.D., Clemson University  
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B.S., Clemson University
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M.S., Towson State University  
B.A., Molloy College
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M.S., University of Florida  
B.A., University of Virginia
- White, Nancy A. (1994)**  
Head of History Department  
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Ph.D., American University  
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Ph.D., University of Georgia  
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B.S.N., University of Georgia
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**Young, Sue (1998)**

Head of Department of Nursing

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## Emeriti Faculty

**Adams, Joseph V. (1970-1997)**

Professor of Psychology and Dean of Arts and Sciences Emeritus

**Anderson, Donald D. (1966-1992)**

Dean of Community Services and Registrar Emeritus

**Beecher, Orson (1942-1982)**

Professor of History Emeritus

**Brewer, John G. (1968-1998)**

Professor of Chemistry Emeritus

**Brooks, Sammy Kent (1966-1990)**

Professor of English Emeritus

**Brower, Mooneyan (1967-1995)**

Associate Professor of Biology Emerita

**Comaskey, Bernard (1966-1997)**

Assistant Professor of History Emeritus

**Davenport, Leslie B., Jr. (1958-1983)**

Professor of Biology Emeritus

**Davis, Lamar W.**

Professor of Business Administration Emeritus

**Duncan, John (1965-1997)**

Professor of History Emeritus

**Findeis, John (1968-1995)**

Assistant Professor of Mathematics Emeritus

**Gadsden, Ida (1956-1981)**

Professor of Education Emerita

**Gross, Jimmie (1967-1997)**

Professor of History Emeritus

**Harmond, Thelma (1963-1981)**

Professor of Education Emerita

**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

**Killorin, Joseph I. (1947-1988)**

Professor of Philosophy & Literature Emeritus

**Lanier, Osmos (1965-1997)**

Professor of History Emeritus

**Lawson, Cornelia (1972-1987)**

Professor of Education Emerita

**Magnus, Robert E. (1973-1991)**

Professor of Criminal Justice Emeritus

**McCarthy, John C. (1962-1990)**

Professor of Political Science Emeritus

**McClanahan, Billie F. (1981-1989)**

Assistant Professor of English Emerita

**Patterson, Robert (1966-1998)**

Professor of History Emeritus

**Pendexter, Hugh III (1965-1983)**

Professor of English Emeritus

**Pingel, Allen L. (1969-1992)**

Professor of Biology Emeritus

**Propst, H. Dean (1969-1979)**

Professor of English and Vice President and Dean of Faculty Emeritus

**Robbins, Paul (1966-1986)**

Professor of Chemistry Emeritus

**Robinson, Aurella (1972-1986)**

Associate Professor of Education Emerita

**Sartor, Herman (1964-1981)**

Professor of Education Emeritus

**Sims, Roy Jesse (1955-1990)**

Professor of Physical Education Emeritus

**Stephens, Jacquelyn (1979-1990)**

Professor of Education Emerita

**Stratton, Cedric (1965-1993)**

Professor of Chemistry Emeritus

**Strozier, Robert (1955-1959; 1965-1995)**

Professor of English Emeritus

**Tapp, Lawrence (1959-1994)**

Professor of Physical Education Emeritus

**White, Virginia (1967-1991)**

Assistant Professor of English Emerita

**Winn, William (1957-1971)**

Professor of Mathematics Emeritus

**Worthington, Clarke Stuart (1967-1993)**

Professor of Psychology Emeritus



## Officers of Administration at Armstrong Atlantic State University

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Dr. Grace Martin .....	Interim Dean, College of Arts and Sciences
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Vacant .....	Assistant Vice President for Technology
Dr. Deanna Cross .....	Assistant Dean, Adult Academic Services and Special Assistant to the President for Minority Affairs
Dr. Henry Harris .....	Associate Dean, College of Arts and Sciences
Dr. Patricia Brandt .....	Assistant Dean, College of Education
Dr. Marilyn Buck .....	Assistant Dean, College of Health Professions
Mr. William Kelso .....	Assistant to the Vice President for Student Affairs
Dr. Joseph Adams .....	Special Assistant to the Vice President for International Programming
Mr. Ben Lee .....	Director, Lane Library
Mr. Kim West .....	Registrar and Director of Admissions
Mr. Greg Anderson .....	Director, Academic Orientation and Advisement
Ms. Melinda Thomas .....	Director, Alumni Affairs and Annual Fund
Dr. Eddie Aenchbacher .....	Director, Athletics
Ms. JoAnn Windeler .....	Director, Business and Auxiliary Services
Ms. Jan Jones .....	Director, Career Services
Dr. Lucretia Zienert .....	Director, Computer and Information Services
Vacant .....	Director, Continuing Education
Ms. Lynn Benson .....	Director, Counseling Services
Mr. Greg Sewell .....	Director, Law Enforcement Training Center
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Mr. Daniel Harrell .....	Director, Financial Services
Dr. Richard Nordquist .....	Director, General Studies
Ms. Alexandra Thompson .....	Director, Grants
Dr. Mark Finlay .....	Director, Honors Program
Ms. Ellen Struck .....	Director, Human Resources
Ms. Cheryl Tarter .....	Director, Institutional Research
Mr. Gary Guillory .....	Director, International Student Services
Ms. Gisela Grant .....	Director, Liberty Center
Ms. Lauretta Hannon .....	Executive Director, Marketing
Dr. Michael Snowden .....	Director, Minority Affairs
Mr. David Faircloth .....	Director, Plant Operations
Mr. Mack Seckinger .....	Director, Public Safety
Ms. Mary Willoughby .....	Director, Public Service Center
Mr. Al Harris .....	Director, Student Activities
Vacant .....	Director, Volunteer and Service Learning
Vacant .....	Director, Weekend and Off-Campus Programs

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Vacant .....	Third
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Glenn White .....	Eleventh
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William R. Bowes .....	Associate Vice Chancellor - Fiscal Affairs
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University System of Georgia  
 270 Washington Street, SW  
 Atlanta, GA 30334

## Institutions of the University System of Georgia

### Comprehensive and Special Purpose Universities

- |   |  |
|---|--|
| Athens 30602<br>University of Georgia—h; B,J,M,S,D        | Atlanta 30303<br>Georgia State University—A,B,J,M,S,D  |
| Atlanta 30332<br>Georgia Institute of Technology—h; B,M,D | Augusta 30912<br>Medical College of Georgia—h; A,B,M,D |

### Regional Universities

- |   |   |
|---|---|
| Statesboro 30460<br>Georgia Southern University—h; A,B,M,S,cD | Valdosta 31698<br>Valdosta State University—h; A,B,M,S,cD |
|---|---|

### State Universities and Senior Colleges

- |  |  |
|--|--|
| Albany 31705<br>Albany State University—h; B,M                         | Marietta 30061<br>Kennesaw State University—A,B                        |
| Americus 31709<br>Georgia Southwestern State University—h; A,B,M,S     | Marietta 30060<br>Southern Polytechnic State University—h; A,B,M       |
| Augusta 30910<br>Augusta State University—A,B,M,S                      | Milledgeville 31061<br>Georgia College and State University—h; A,B,M,S |
| Carrollton 30118<br>State University of West Georgia—h; A,B,M,S        | Morrow 30260<br>Clayton College and State University—A,B               |
| Columbus 31993<br>Columbus State University—A,B,M,S                    | Savannah 31419<br>Armstrong Atlantic State University—h; A,B,M         |
| Dahlonega 30597<br>North Georgia College and State University—h; A,B,M | Savannah 31404<br>Savannah State University—h; A,B,M                   |
| Fort Valley 31030<br>Fort Valley State University—h; A,B,M             |  |

### Two-Year Colleges

- |  |  |
|--|--|
| Albany 31707<br>Darton College—A                       | Douglas 31533<br>South Georgia College—h; A        |
| Atlanta 30310<br>Atlanta Metropolitan College—A        | Gainesville 30503<br>Gainesville College—A         |
| Bainbridge 31717<br>Bainbridge College—A               | Macon 31297<br>Macon College—A                     |
| Barnesville 30204<br>Gordon College—h; A               | Rome 30163<br>Floyd College—A                      |
| Brunswick 31523<br>Coastal Georgia Community College—A | Swainsboro 30401<br>East Georgia College—A         |
| Cochran 31014<br>Middle Georgia College—h; A           | Tifton 31793<br>Abraham Baldwin Agri. College—h; A |
| Dalton 30720<br>Dalton College—A                       | Waycross 31501<br>Waycross College—A               |
| Decatur 30034<br>DeKalb College—A                      |  |

h — On-Campus Student Housing Facilities. Degrees Awarded: A — Associate; B — Baccalaureate;  
 J — Juris Doctor; M — Masters; S — Specialist in Education; D — Doctorate;  
 cD — Doctorate offered in cooperation with a University System university,  
 with degree awarded by the university.

## 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:** eligibility to enroll in courses beyond the entry level through transfer credit or examination.

**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 Atlantic State University.

**ACT—American College Testing:** a standardized exam that tests verbal and math 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 Atlantic.

**advance registration:** an early registration period available to currently enrolled students. Also known as pre-registration.

**area of concentration:** a part of the course of study required for the bachelor of general 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.

**CHAOS (Communication, Help, Advisement, Orientation and Service):** an orientation program held for new students. CHAOS leaders are students who have been trained to present these orientation sessions.

**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.

**CLEP — College Level Examination Program:** a standardized test used to determine proficiency in a specific area of study. If students score at a certain level on a CLEP test, they will receive credit for a class in that subject area. In some areas, students will be required to pass a higher level course with a minimum grade before CLEP credit is given.

**CPC — College Preparatory Curriculum:** 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.

**CPE — College Placement Exam:** establishes students' proficiency levels in reading, English and math. Based on the scores received, students may be required to take learning support courses. This exam is given to students before their first semester.

**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.

**Dean's List:** an announcement at the end of each semester listing those students enrolled for at least 10 semester hours who have earned at least a 3.6 honor point average. Only course work taken at Armstrong Atlantic 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 CPE.

**drop (a class):** students deciding to withdraw from a class or classes must follow an established procedure in order to obtain any refunds due to them and avoid academic penalties. See also withdrawal.

**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.

**GTREP — Georgia Tech Regional Engineering Program:** students in the Savannah area may obtain all courses needed, either in traditional classes or by distance learning, for Georgia Tech degrees in computer and civil engineering.

**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 through the Department of Health and Physical Education. Open to all interested students.

**joint enrollment:** a program for high school students who have completed the tenth grade and have demonstrated outstanding academic potential. This program allows students to enroll full-time at the university while remaining on the rolls of a local high school. At the end of their freshman year students receive their high school diploma.

**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. Minors are approved by the Board of Regents.

**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, etc.) 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, forestry, and pharmacy. Also includes study appropriate for dentistry, law, 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.

**programs of study:** refers to specific majors or areas of study, usually leading to a degree.

**readmission:** students who have attended Armstrong Atlantic in the past, but have not taken classes at the university for three or more terms, not including the summer term.

**Regents' Test:** an exam measuring minimum writing and reading skills given to all students in the University System of Georgia. At Armstrong Atlantic, this exam is required after a student has completed 30 semester hours.

**registration:** a time to enroll for specific classes for the upcoming term. Regular registration is held the day before classes begin each 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 20/ACT math 18), required grade point average (2.0), 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 consider Georgia their home. 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 transfer to Georgia Tech in Atlanta after successfully completing a two-year pre-engineering curriculum at Armstrong Atlantic.

**ROTC — Reserve Officer Training Corps:** a curriculum available at Armstrong Atlantic 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 — Scholastic Aptitude Test:** a standardized exam that tests verbal and math skills. Scores are used to determine admission status for freshmen.

**semester hours:** the approximate number of hours spent each week in a particular class. Also used to determine the total number of hours students register for.

**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.

**short course:** a continuing education course that does not award college credit though it may award continuing education units.

**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 Atlantic 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 Atlantic which may be transferred to their home institution.

**University System of Georgia:** the overall system of public higher education in Georgia, comprised of 5 universities, 14 senior colleges and 15 junior colleges.

**withdrawal:** the act of dropping out of the university completely; the date of the withdrawal determines any fee refund or grade penalty.

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## Where to Write or Call

Specific information may be obtained by writing to the offices listed below and adding: Armstrong Atlantic State University, 11935 Abercorn Street, Savannah, GA 31419-1997. Also see our web site at [www.armstrong.edu](http://www.armstrong.edu).

### ACADEMIC ADVISEMENT

Director of Academic Orientation  
and Advisement  
927-5494

### ADMISSION

Director of Admissions  
927-5277  
1-800-633-2349

### ADULT ACADEMIC SERVICES

Assistant Dean of Adult Academic Services  
961-3163

### ALUMNI

Alumni Affairs, Office of University  
Advancement  
927-5264

### ATHLETICS

Director of Athletics  
927-5336

### BUSINESS MATTERS

Vice President for Business & Finance  
927-5255

### CAREER PLANNING & PLACEMENT

Director of Career Services  
927-5269

### CONTINUING EDUCATION

Director of Continuing Education  
927-5322

### COUNSELING

Director of Counseling  
927-5269

### FINANCIAL AID, GRANTS, LOANS,

WORK-STUDY ELIGIBILITY  
Director of Student Financial Aid  
927-5272  
1-800-633-2349

### GENERAL ACADEMIC AND

FACULTY MATTERS  
Vice President and Dean of Faculty  
927-5261

### GIFTS, GRANTS & BEQUESTS

Office of University Advancement  
927-5263

### GRADUATE STUDY

Dean of Graduate Studies  
927-5377

### HOUSING

Director of Housing  
927-5269

### MINORITY AFFAIRS

Director of Minority Affairs  
927-5252

### PUBLIC RELATIONS

Office of University Relations  
927-5263

### SECURITY

Campus Police  
921-5555

### TEACHER CERTIFICATION

Certification Officer  
927-5294

### TESTING

Division of Student Affairs  
927-5269

### TRANSCRIPTS

Office of the Registrar  
927-5275

### TUITION, PAYMENT OF BILLS, REFUNDS

Vice President for Business & Finance  
927-5255

### WEEKEND AND OFF-CAMPUS

PROGRAMS  
Director of Weekend and Off-Campus  
Programs  
961-3247

### Special Notice

The statements set forth in this catalog are for information purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of the catalog will generally be applied as stated, Armstrong Atlantic 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 of 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.

Armstrong Atlantic State University is an affirmative action/equal opportunity education institution and does not discriminate on the basis of sex, race, age, religion, disability, or national origin in employment, admissions, or activities.



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11935 Abercorn Street  
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