## 2004-2005 Undergraduate Catalog

Armstrong Atlantic State University

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## 2004-2005 CATALOG

A Unit of the University System of Georgia
Savannah, Georgia

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## President's Message

Welcome to Armstrong Atlantic State University, an institution with a rich tapestry of academic offerings in the arts, sciences, humanities, computing sciences, education, and the health professions. Consider this catalog as a letter of introduction to the challenges and rewards of higher education at AASU. Look carefully at the more than seventy-five high quality undergraduate and graduate degrees offered by the university. As a student at AASU you will encounter innovative professors whose contributions to the Armstrong Atlantic experience - as teachers, advisors, researchers, and friends - are tremendous.

You will find your learning experiences at AASU empowering. Your experiences will not only prepare you for a fulfilling career, but help you to live an enriched life. At Armstrong Atlantic State University, 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.

I invite you to explore the excitement of Armstrong Atlantic State University. Join us for a truly exciting learning experience - in our classrooms, laboratories, rehearsal rooms, technology centers, and on our playing fields. We share your enthusiasm for the journey.

With warm regards,


Thomas Z. Jones
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

Adult Education
Anthropology
Art
Astronomy
Biology
Business Education (with Savannah State University)
Business Education (with Georgia Southern University)
Chemistry
Communications (degree in English)
Computer Science
Crime, Transnational
Criminal Justice
Dental Hygiene
Dental Hygiene Education
Economics
Education - Early Childhood - see Teacher Education
Education - Middle Grades - see Teacher Education
Education - Secondary - see content areas
Educational Technology
Engineering
Engineering Studies
English
English - Communications
English Education
European Union Studies
Film
Financial Economics
Fine Arts - Visual Arts
Forensic Science
French
General Studies
Geography
Geology
German
Gerontology
Health \& Physical Education
Health Science
Health Services Administration
Heritage Tourism
History
International Studies
Information Technology
Journalism
Latin American Studies
Law Enforcement - Basic
Legal Studies
Liberal Arts - see General Studies

## SUBJECTS

Library Media
Linguistics
Mathematical Sciences
Mathematics Education
Medical Technology
Mental Health
Meteorology
Military Science
Music
Naval Science
Nursing
Oceanography
Organizational Psychology
Philosophy
Physical Education - see Health and Physical Education
Physical Science
Physical Therapy
Physics, Applied
Political Science
Psychology
Public Health
Public History
Radiologic Sciences
Respiratory Therapy
Science Education - Broadfield
Social Science Education - Broadfield
Sociology
Spanish
Special Education - Behavior Disorders
Special Education - Cross Categorical
Special Education - Learning Disabilities
Speech-Language Pathology
Sports Medicine
Strength and Conditioning
Teacher Education
Theater
Visual Arts (degree in Fine Arts)
Women's Studies
Writing

## How to Use This Catalog

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

Students sometimes use the university catalog solely as a reference - a much-needed guide to degree requirements, courses, or deadlines for financial aid and scholarship applications. The university's other publications will provide even more detailed information on when and where to register, and when and where specific courses are being taught. But college catalogs - and the Armstrong 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 studentteacher 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:

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

Computer Science - by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology for the period 1999-2005.

Dental Hygiene - by the Commission on Dental Accreditation of the American Dental Association for the period 2001-2008.

Medical Technology - by the National Accrediting Agency for Clinical Laboratory Sciences for the period 1985-2005.

Music - by the National Association of Schools of Music for the period 1995-2005.
Nursing (Baccalaureate and Master's degrees) - by the Commission on Collegeate Education in Nursing for the period 2001-2006.

Physical Therapy - by the Commission on Accreditation in Physical Therapy Education for the period 2003-2012.

Radiologic Sciences - by the Joint Review Committee on Education in Radiologic Technology for the period 2001-2008.

Respiratory Therapy - by the Committee on Accreditation of Allied Health Educational Programs for the period 1997-2005.

Teacher Education Programs - by the National Council for the Accreditation of Teacher Education for the period 2002-2009.

## 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; English (communications), English, general studies, history, information technology, nursing (RNO only), and psychology.

Because evening courses are offered on a rotational basis, students may take longer to complete degree requirements by attending evening classes exclusively than by attending day classes or a combination of day, evening, and weekend classes.

Weekend College complements the evening programs of the university. Saturday classes include core curriculum courses in art, composition, history, physical education, 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 Adult Academic services oversees the development and promotion of Weekend College and serves as a liaison for the evening program.

## 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, and industrial management - not offered among its degree programs, and offers the pre-professional study appropriate for dentistry, law, medicine, pharmacy, 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 for admission to engineering programs on a 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 School of Computing.

## Georgia Tech Regional Engineering Program

The Georgia Tech Regional Engineering Program (GTREP) is a partially "virtual" university that builds on the strengths of the RETP. Through GTREP, students can complete Georgia Tech degrees in civil engineering, computer engineering, mechanical engineering, or electrical engineering without leaving the Savannah area. Freshman and sophomore classes are taught by Armstrong Atlantic faculty with the final two years 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 engineering studies coordinator in the School of Computing 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 career services.

## Off-Campus and Distance Learning

The university offers selected courses at various off-campus sites, including Brunswick Center (Brunswick and Kingsland), Liberty Center (Ft. Stewart), East Georgia College and the Medical College of Georgia. Although most of these courses are taught by university faculty at the offcampus sites, some may be delivered by means of interactive video conferencing 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 eight interactive distance-learning classrooms, four of them on campus (Gamble 113, Ashmore 136 and 228, and University Hall 114) and others at the Brunswick Center, Liberty 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 criminal justice, bachelor of arts in history, bachelor of science in nursing, and associate of science in dental hygiene through this off-campus site. Armstrong Atlantic also offers the master of science degree in nursing at the Brunswick Center and a master of education degree in early childhood education and middle school education in Camden County.

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, 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 in 1998 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 an array of associate, bachelor's and master's degrees are offered by the consortium.

## Regional Law Enforcement Training Center

The Armstrong Atlantic State University Regional Law Enforcement Training Center is a regional training site for criminal justice employees, especially those in law enforcement. The region consists of nineteen 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 five full-time staff members and a large parttime 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 and private sector agencies design more effective, efficient means to deliver services. City and county governments; nonprofit human service and cultural groups; boards of education; colleges and universities; and state, regional, and local agencies all may benefit from the center's programs and services.

Services offered have grown to include the following specialties:

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


## 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 five sites: the Armstrong Atlantic campus, midtown, historic Savannah, Tybee Island, and Beaufort, S.C. 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 and coastal Georgia (population 299,790). The university's 250acre 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, art shows, lectures, 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. With a rich maritime heritage, the Port of Savannah is the fifth largest container port in the United States. A temperate climate encourages year-round outdoor recreation. You can swim and sun at the beach, water-ski, sail, cruise on a boat, fish off barrier islands, hike, hunt, visit historic sites, play golf and tennis, dine at an outdoor cafe, attend city festivals and special celebrations on the waterfront and in the parks, and much more. Dance and theater groups, and popular entertainers regularly perform at the Savannah Civic Center, Lucas Theater, and Trustees Theater.

## Office of University Relations

The Office of University Relations provides a proactive and credible communications program that informs and educates a wide array of audiences about Armstrong Atlantic's role as a premier university and community leader. The office promotes the university, its students, faculty, staff, and activities through the creation of numerous external promotional materials and through interaction with representatives of the local, state, and national media. The staff provides publication support for all units of the university, from writing and editing to graphic design and photography. In addition, the Office of University Relations is responsible for university marketing efforts, advertising, developing stories for publications, producing Compass (the quarterly campus newsletter), other promotional activities, and special event assistance. The office serves as the liaison between the university and the news and publication office of the University System of Georgia.

The Office of University Relations also manages student recruitment and promotes this effort through printed materials, direct mailings, recruitment (PROBE), job and career fairs, open house events, counselor workshops, advertising, visits to businesses and schools, and other activities.

## Office of External Affairs

The Office of External Affairs consists of the offices of university advancement, professional and continuing education, economic and community development, and regional education services.

External Affairs also provides administrative assistance to the Armstrong Atlantic State University Foundation and AASU Educational Properties, Inc.

University Advancement. University Advancement includes the Office of Development and the Office of Alumni Affairs. The development office of the AASU Office of External Affairs, in collaboration with the AASU Foundation, develops and initiates fund raising activities and programs to prospective donors who share the mission and goals of Armstrong Atlantic State University. Donations provide the university with support unavailable through state appropriations allowing the faculty and administration to respond to opportunities for growth and innovation. Gifts are also used to assist students through scholarships and other financial assistance, support 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.

The office of alumni affairs serves as a liaison to the Armstrong Atlantic Alumni Association, Armstrong Atlantic graduates, former students, and friends. The office maintains current alumni records, processes alumni membership, 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. Each 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.

Professional and Continuing Education. Armstrong Atlantic's Office of Professional and 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 have been designed to improve professional skills, enhance leisure activities, and foster personal enrichment. The office also coordinates conferences, workshops, and customized training 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 continuing education office.

For more information about course offerings and schedules, contact the office.
Economic Development. The Office of Economic Development supports regional and statewide economic and community development through coordination of partnership initiatives related to the university's faculty, instructional and research resources. Working closely with the department of professional and continuing education and the academic departments, the department of economic development identifies training, consulting, and other needs of the private sector, government and other institutions, designs programs to address those needs and seeks resources to meet targeted economic development and community needs.

Regional Education Services. The Office of Regional Education Services coordinates Armstrong Atlantic State University's course offerings at various off campus sites, such as the Liberty Center at Fort Stewart and the Brunswick Center. The office also coordinates the university's distance learning activities, via GSAMS and the Internet. Regional Education Services also includes the Public Service Center and the Law Enforcement Training Center.

## 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 (www.admissions.armstrong.edu)
- 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

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 and have a transfer grade point average of 2.0.

Transients. Students enrolled in other colleges or universities may apply to Armstrong Atlantic for 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 two consecutive terms.

Information on 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). 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). 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.Participation in community service, extra-curricular activities, and honors/awards received will be considered.

- SAT verbal score of 460 or ACT English score of 19
- SAT math score of 430 or ACT math score of 18
- Freshman Index* of 1940

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.
*SAT Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500).
ACT Freshman Index $=($ High School GPA x 500 $)+($ ACT composite $x 42)+88$.
The high school grade point average is calculated only on CPC course work required for admission.

College Preparatory Curriculum (CPC) Requirements. A total of sixteen CPC units in the areas below are required for regular admission to Armstrong Atlantic State University.

CPC Area (Units)
English (4)

Mathematics (4)
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, one in geometry, and one advanced mathematics course
- 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

Applicants who graduate from non-accredited or unapproved high schools will be required to validate CPC requirements by passing SAT II subject tests. Applicants who pass the required 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.

## SAT II Subject Test

English Writing
English Literature
Math IC or Math IIC
American History and Social Studies
World History
Biology 520
One of the following:
Chemistry
Physics

Required Score
520
530
500/570
560
540

540
590

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

Home school applicants who meet all other freshmen admission requirements have the option of validating CPC requirements by passing SAT II subject tests as indicated above or enrolling in specified freshmen level courses earning a grade of C or higher.

Exceptions to the CPC Requirement. Non-traditional students and students pursuing associate of applied science degrees or the basic law enforcement certificate are exempt from CPC requirements.

## Limited Admission

The University System permits Armstrong to admit a limited number of applicants who do not meet regular admission standards. An applicant must meet all of the following criteria to be eligible for limited admission. Participation in community service, extra-curricular activities, and honors/awards received will be considered.

- SAT verbal score of 430 or ACT English score of 17
- SAT math score of 400 or ACT math score of 17
- Freshman Index * of 1790
*SAT Freshman Index $=$ Combined SAT I scores + (High School Grade Point Average x 500). ACT Freshman Index $=($ High School GPA x 500 $)+($ ACT composite $x 42)+88$.
The high school grade point average is calculated only on CPC course work required for admission.
In addition to meeting 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.

College Preparatory Curriculum (CPC) Requirements. A total of sixteen CPC units in the areas below are required for limited admission to Armstrong Atlantic State University.

CPC Area (Units)
English (4)

Mathematics (4)
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, one in geometry, and one advanced mathematics course
- 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


## Special Admission Categories

Non-Traditional Admission. 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).
Applicants admitted as non-traditional students are not required to take the SAT or ACT test, or to fulfill high school CPC requirements. However, these applicants will be required to take the COMPASS Placement Exam and enroll in learning support courses, if required.

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 combined 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 912-927-5277 or 1-800-633-2349 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. Listed below are suggested evaluation agencies and web site addresses.
Josef Silny, Inc. - www.jsilny.com
World Education Services - www.wes.org
Armstrong must receive official transcripts, translations, and evaluations before an application for admission will be considered.
- A student whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and score a minimum of 523 on the written test (or a minimum of 193 on the computer-based TOEFL) for consideration for admission to the university. The TOEFL is not a substitute for the SAT or ACT test requirement. TOEFL test information and test dates can be found at www.TOEFL.org.
- Non-native speakers of English who meet minimum SAT I verbal or ACT English admissions requirements do not need to take the TOEFL for admissions purposes.
- In addition to meeting the regular admission requirements, international prospective students must show ability to meet financial obligations of tuition, fees, and living expenses before Certificates of Eligibility (SEVIS I-20) and acceptance letters are 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 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 $\mathbf{C}$ 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 1000 (combined verbal and mathematics sections) or the ACT composite no less than 21 ;
- minimum SAT Verbal score of 530 or ACT English score of 24;
- 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 24) 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 with SAT math scores of at least 530 (or ACT math scores of at least 22) who have not completed the final unit of mathematics will be permitted to fulfill CPC requirements with the appropriate college courses taken through the post secondary option or the joint enrollment program.
Joint Enrollment students are eligible to enroll in mathematics courses at AASU if at least one of the following applies:
- The student is enrolled at AASU as a full time student (12 or more credit hours)
- The student has completed all four units of college preparatory mathematics at the high school level and enrolls in pre-calculus or above (students are eligible to enroll in precalculus with an SAT mathematics score of 550 or higher, ACT math score of 23 or higher).
- The student enrolls in calculus or above (students are eligible to enroll in calculus with an SAT mathematics score of 600 or higher, ACT math score of 26 or higher).
With the exception of the final CPC units of high school English, social studies and/or mathematics taken by students with qualifying SAT or ACT scores a college course cannot be used to fulfill CPC requirements. Students who have not completed the 13 CPC requirements beyond these three exceptions may be admitted through the joint enrollment program or post secondary option if they are enrolled in the necessary high school courses and are scheduled to complete the requirements by the end of their senior year.

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. 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 five 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 collegebound 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 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. 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.

## 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 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 applicants will not be considered for admission unless transcripts of the college or university last attended indicate academic eligibility to return to that institution. Any transfer applicant who is not academically eligible to return to the last institution attended will be denied admission to the university. Transfer applicants may appeal this decision by completing an appeal form and submitting this form to the dean of the school of graduate studies. The admissions and academic standing committee meets each term to review admission appeals.

Academic Standing and Grade Calculations. Armstrong Atlantic's academic standing policy will be used to determine an applicant's entering academic standing. Transfer students admitted on appeal by the Academic Appeals 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. 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. 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 3.33 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. Students may appeal individual course decisions.

No transfer credit will be awarded from institutions not regionally accredited. An applicant transferring from an institution that 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 nonaccredited 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.

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

Armstrong 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 accreditation 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.

Students who complete an area of the core curriculum at another University System of Georgia institution are guaranteed full credit for that area in transfer if they do not change intended majors or programs of study. In Areas B, C and E, students completing the sending institution's core are guaranteed full transfer credit regardless of changes in intended majors or programs of study. A department may require a student to enroll in a core course that is required for a specific major if that course was not taken to satisfy the core area requirement. Satisfaction of a core area at another University System institution does not exempt a student from satisfying any subsequent prerequisite for a future course.

Transfer students who have not yet completed the equivalent of ENGL 1101 (Composition I) with a grade of C or higher should make an appointment to meet with the composition coordinator for an English placement interview prior to registration. The coordinator will assist the student in determining placement in the appropriate composition course(s), evaluating other English course credits, and reviewing the Regents' Test requirement.

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

## Credit by Examination

Armstrong Atlantic State University grants credit toward a college degree for the examinations and scores listed below. Credit awarded by examination cannot replace a previous grade earned for the same course.

## Examinations for High School Students

Advanced Placement (www.collegeboard.com)

| Test | Score <br> Required |
| :--- | :---: |
| Biology | $(4)$ |
| Chemistry | $(3)$ |
| Computer Science AB | $(3)$ |
| English Language \& Composition | $(3)$ |
| English Literature \& Composition | $(3)$ |
| Environmental Science | $(3)$ |
| European History | $(3)$ |
| French Language | $(3)$ |
| French Language | $(4)$ |


| AASU equivalent | Credit <br> Hours |
| :--- | ---: |
| BIOL 1107 | $(4)$ |
| CHEM 1211/L | $(4)$ |
| CSCI 1301 | $(4)$ |
| ENGL 1101 | $(3)$ |
| ENGL 1101 | $(3)$ |
| BIOL 1140 | $(3)$ |
| Elective | $(3)$ |
| FREN 1001 | $(3 \mathrm{a})$ |
| FREN 1001, 1002, 2001, |  |
| 2002 | $(12 \mathrm{c})$ |


| French Literature | (3*) | FREN 1001 | (3) |
| :---: | :---: | :---: | :---: |
| German Language | (3*) | GRMN 1001 | (3) |
| Government \& Politics: US | (3) | Elective** | (3) |
| Latin/Latin Literature | (3*) | LATN 1001 | (3) |
| Mathematics/Calculus AB | (3) | MATH 1161 | (4) |
| Mathematics/Calculus B/C | (3) | MATH 1161 and 2072 | (8) |
| Macroeconomics | (3) | ECON 2105 | (3) |
| Microeconomics | (3) | ECON 2106 | (3) |
| Music Theory | (3) | MUSC 1111 | (2) |
| Physics B | (3) | PHYS 1111/L, PHYS 1112/L | (8) |
| Physics C/Mechanics | (3) | PHYS 2111/L | (4) |
| Physics C/Mechanics | (3) | PHYS 2112/L | (4) |
| Psychology | (3) | PSYC 1101 | (3) |
| Spanish Language | (3) | SPAN 1001 | (3a) |
| Spanish Language | (4) | SPAN 1001, 1002, 2001, 2002 | (12c) |
| Spanish Literature | (3*) | SPAN 1001 | (3) |
| Statistics | (3) | MATH 2200 | (3) |
| Studio Art (Art-Drawing) | (3) | ARTS 1010 | (3) |
| U.S. History | (3) | HIST 2111 and 2112 | (6) |
| International Baccalaureate Examinations (higher level courses only) (www.ibo.org) |  |  |  |
| Chemistry | (5) | CHEM 1211/L | (4) |
| Computer Science | (5) | CSCI 1302 | (3) |
| English A1 | (4) | ENGL 1101 | (3) |
| History of the Americas | (4) | HIST2111 and 2112 | (6) |
| Physics | (5) | PHYS 2211/L | (4) |
| SAT II: Subject Tests |  |  |  |
| American History | (\#) | HIST 2111 or 2112 | (3) |
| Examinations for College Students |  |  |  |
| College-Level Examination Program (CLEP) (www.collegeboard.com) |  |  |  |
| Test | Score <br> Required | AASU equivalent | Credit <br> Hours |
| General Examinations |  |  |  |
| Humanities | (50) | ARTS 1100 | (3) |
| Natural Science | (50) | PHSC 1211 (without lab) | (3) |
| Subject Examinations |  |  |  |
| Algebra, College | (54) | MATH 1111 | (3) |
| Algebra-Trigonometry, College | (58) | MATH 1111 \& 1113 | (6) |
| American Government | (50) | Elective** | (3) |
| Analyzing \& Interpreting Literature*** | (53) | ENGL 1102 | (3) |
| Calculus with Elementary Functions | (61) | MATH 1161 \& 2072 | (8) |
| Composition, Freshman College*** | (54) | ENGL 1101 | (3) |
| French Language, College Level | (50) | FREN 1001, 1002 | (6b) |
| French Language, College Level | (62) | FREN 1001, 1002, 2001, | (12c) |
| German Language, College Level | (50) | GRMN 1001, 1002 | (6b) |
| History of the US I: Colonization to 1877 | (50) | HIST 2111 | (3) |
| History of the US II: 1865 to the Present | (50) | HIST 2112 | (3) |
| Information Systems and Computer |  |  |  |
| Applications | (50) | CSCI 1050 | (3) |
| Principles of Macroeconomics | (54) | ECON 2105 | (3) |
| Principles of Microeconomics | (54) | ECON 2106 | (3) |
| Sociology, Introductory | (50) | SOCI 1101 | (3) |
| Spanish Language, College Level | (50) | SPAN 1001, 1002 | (6b) |
| Spanish Language, College Level | (66) | SPAN 1001, 1002, 2001, | (12c) |

DANTES Subject Standardized Tests (DSST) (www.dsst@chauncey.com)
Criminal Justice (49) CRJU 1010 General Anthropology (47) ANTH 1102 Principles of Statistics (48) MATH 2200
Excelsior College Examinations Statistics
(45) MATH 2200

* Consult head of Languages, Literature, and Philosophy Department if score is higher than 3.
** AP \& Georgia Government Examination needed to satisfy state requirement for US/GA gov't.
*** A "clearly passing" essay as well as a passing score on the objective test is required.
\# Current national average
a Grade of C or higher in 1002 language course is required before credit is awarded.
b Grade of C or higher in 2001 language course is required before credit is awarded.
c Grade of C or higher in 3000 level language course (that continues one's sequence of study in the same language) is required before credit is awarded.

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

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

## College Credit for Military Experience and Training

As a SOC institution, Armstrong Atlantic State University provides service members with an option to petition for credit for military education/training when deemed applicable to a degree program. Upon acceptance, students may request a review of their military education/training to determine possible academic credit. Students should submit official documentation of military education/training (AARTS, SMART, or Community College of the Air Force transcript) to the admissions office and their academic advisor for evaluation of degree-related training. All service members may be awarded three semester hours of physical activity credit and eight semester hours of military science credit upon receipt of official documentation of military education/training. Additional academic credit for military education may be granted for highly specialized academic training (e.g., foreign language schools) if applicable to the service member's degree program.

Students with a declared major may petition the AASU department head responsible for the course in question. Adequate documentation must be provided by the student and accompany each request. Proper documentation will include a complete syllabus of the course under review, school catalog, textbook description, and prerequisite track.

## CertificatePrograms

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.
- European Union studies certificate - see Special Programs.
- Financial economics certificate - see Department of Economics.
- Forensic Science certificate - see Special Programs, Department of Chemistry and Physics.
- Gerontology certificate - see Department of Health Science.
- Information technology certificate - see Department of Computer Science
- Latin American studies certificate - see Special Programs.
- Post baccalaureate medical technology certificate - see Department of Medical Technology.
- Post baccalaureate radiation therapy certificate - see Department of Radiologic Sciences.
- Teacher certification - see College of Education
- Women's Studies - see Department of Languages, Literature \& Philosophy


## External Degree Programs

Applicants who wish to earn a degree from Armstrong Atlantic State University through one of 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 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. 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 are collected at the current rates set by the University System Board of Regents. University students taking four or more semester hours at Coastal Georgia Community College also must pay student activity, athletic and technology fees at this institution.

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.

## Liberty Center

As a result of a cooperative effort by Armstrong Atlantic State University, Waycross 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. Students should contact the Liberty Center at Fort Stewart for admissions information and schedule of class offerings.

## 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. Transfer students may apply to enter the honors program under special conditions that consider courses transferred into the university. Honors courses in the core are open to all students who meet the published prerequisites.

## 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. Any student who has been admitted to an engineering program at Georgia Tech on the basis of his or her academic record can also enter Armstrong Atlantic as an RETP student even if these requirements are not met.

Students at Armstrong Atlantic who do not qualify for admission to the RETP under the terms of the previous paragraph can be admitted to Georgia Tech through RETP after completing the RETP curriculum by virtue of good academic performance at Armstrong Atlantic. The basis for transfer to Georgia Tech is a 2.7 overall grade point average plus 2.7 grade point averages in the combined math series (beginning with Calculus I), the science courses for the major, and C's or better in chemistry, English, and all courses to be transferred.

Regents Engineering Transfer Program students must be U.S. citizens with Georgia residency. Additional information may be found at www.engineering.armstrong.edu.

## Georgia Tech Regional Engineering Program (GTREP)

Engineering students can complete the baccalaureate degrees in civil engineering, computer engineering, mechanical engineering, and electrical engineering from the Georgia Institute of Technology without leaving Savannah. Students who successfully complete their first two years in Armstrong Atlantic's Engineering Transfer Program are transferred to Georgia Tech student status (GTREP). The upper division requirements are delivered to Armstrong Atlantic by Georgia Tech via distance learning or Georgia Tech faculty located in Savannah. The basis for transfer into GTREP as a Georgia Tech student is a 2.7 Regents' overall grade point average plus 2.7 grade point averages in the combined math series (beginning with Calculus I), the science courses for the major, and C's or better in chemistry, English, and all courses to be transferred. GTREP is open to in-state and out-of-state residents. Out-of-state residents need 3.0 grade point averages overall and in the math and science sequences. Additional information may be found at 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; the only exception being Audit-only students. All 62 plus students must register in the Office of Adult Academic Services.

## SOCAD Program

Active duty U. S. Army 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.

# Student Fees and Financial Policies 

## Fall 2004 - Spring 2005 <br> Expenses and Fees

## Expenses

Principal expenses and regulations concerning the payment of fees are described herein. Fees and other charges are subject to change without notice. When such changes are made, notice will be given as far in advance as possible. Expenses are in the form of tuition, out-of-state tuition; student services fees and other special fees. Fees of all students are due and payable at the time of registration; registration is not complete until all fees have been paid. Out-of-state residents pay higher fees than Georgia residents.

Tuition Fees (Per Semester). Tuition is expected to increase, Fall 2004. Fee rates listed below are for Fall 2003 - Spring 2004.

|  |  | $\frac{\text { UNDERGRADUATE }}{\text { IN-STATE }}$ |  |  |  | UNDERGRADUATEOUT-OF-STATE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hrs | $\begin{aligned} & \text { Tech } \\ & \text { Fee } \end{aligned}$ | Ath- <br> letic <br> Fee | Act- <br> ivity <br> Fee | InState Tuition | Total In-State Tuition \& Fees | Tech Fee | Ath- <br> letic <br> Fee | Activity Fee | Out-ofState Tuition | Total <br> Out-of- <br> State <br> Tuition <br> \& Fees |
| 1 | \$38 | \$116 | \$41 | \$ 93 | \$ 288 | \$38 | \$116 | \$41 | \$ 369 | \$ 564 |
| 2 | 38 | 116 | 41 | 186 | 381 | 38 | 116 | 41 | 738 | 933 |
| 3 | 38 | 116 | 41 | 279 | 474 | 38 | 116 | 41 | 1107 | 1302 |
| 4 | 38 | 116 | 41 | 372 | 567 | 38 | 116 | 41 | 1476 | 1671 |
| 5 | 38 | 116 | 41 | 465 | 660 | 38 | 116 | 41 | 1845 | 2040 |
| 6 | 38 | 116 | 41 | 558 | 753 | 38 | 116 | 41 | 2214 | 2409 |
| 7 | 38 | 116 | 41 | 651 | 846 | 38 | 116 | 41 | 2583 | 2778 |
| 8 | 38 | 116 | 41 | 744 | 939 | 38 | 116 | 41 | 2952 | 3147 |
| 9 | 38 | 116 | 41 | 837 | 1032 | 38 | 116 | 41 | 3321 | 3516 |
| 10 | 38 | 116 | 41 | 930 | 1125 | 38 | 116 | 41 | 3690 | 3885 |
| 11 | 38 | 116 | 41 | 1023 | 1218 | 38 | 116 | 41 | 4059 | 4254 |
| 12 | 38 | 116 | 41 | 1106 | 1301 | 38 | 116 | 41 | 4424 | 4619 |

Fees are charged at the undergraduate rate based upon the student classification in the student information system. Out-of state tuition is charged to students who are not classified as Georgia residents.


Fees are charged at the graduate rate based upon the student classification in the student information system. Out-of state 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.
- Active duty military personnel and their dependents stationed in Georgia (except military personnel assigned to this institution for educational purposes) will pay the in-state tuition rate. Documentation must be presented to the registrar's office.
- On-campus students must pay an activity fee and an athletic fee each semester, regardless of the number of hours enrolled. On-campus courses are defined as being physically located in Chatham County.
- Students registered for a combination of on- and off-campus courses will be charged student activity and athletic fees.
- Internet courses are categorized as off-campus courses. A course will be considered an internet course if $100 \%$ of the course instruction is delivered over the internet.
- 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 and meet residency requirements.
- All students enrolled for classes will be charged the technology fee, and, if applicable, the activity and athletic fees, regardless of the length of the class.


## Regents' Policies Governing Residency Requirements

Legal residents of Georgia, as well as certain categories of non-residents, are eligible to pay resident fees in accordance with the following Board of Regents' rules:
A. 1. If a person is 18 years of age or older, he or she may register for a period of at least 12 months immediately preceding the date of registration.
i. A student whose parent, spouse, or court-appointed guardian is a legal resident of the state of Georgia may register as a resident providing the parent, spouse, or guardian can provide proof of legal residency in the state of Georgia for at least 12 consecutive months immediately preceding the date of registration.
ii. A student who previously held residency status in the state of Georgia but moved from the state then returned to the state in 12 or fewer months.
iii. Students who are transferred to Georgia by an employer are not subject to the durational residency requirement.
2. No emancipated minor or other person 18 years or age or older shall be deemed to have gained or acquired in-state status for tuition purposes while attending any education institution in this state, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
B. If a parent or legal guardian of a student changes his or her legal residence to another state following a period of legal residence in Georgia, the student may retain his or her classification as an in-state student as long as he or she remains continuously enrolled in the University System of Georgia, regardless of the status of his or her parent or legal guardian.
C. In the event that a legal resident of Georgia is appointed by a court as guardian of a non-resident member, such minor will be permitted to register as an in-state student providing the guardian can provide proof that he or she has been a resident of Georgia for a period of 12 months immediately preceding the date of the court appointment.
D. Aliens shall be classified as non-resident student; 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 in-state tuition as a citizen of the United States.

## Waivers*

An institution may waive out-of-state tuition for:

1. Academic Common Market. Students selected to participate in a program offered through the Academic Common Market.
2. International and Superior Out-of-State Students. International students and superior out-of-state students selected by the institutional president or an authorized representative, provided that the number of such waivers in effect does not exceed two percent of the equivalent full-time students enrolled at the institution in the fall term immediately preceding the term for which the out-of-state tuition is to be waived.
3. University System Employees and Dependents. Full-time employees of the University System, their spouses, and their dependent children.
4. Medical/Dental Students and Interns. Medical and dental residents and medical and dental interns at the Medical College of Georgia (BOR Minutes, 1986-87, p.340).
5. Full-Time School Employees. Full-time employees in the public schools of Georgia or of the Department of Technical and Adult Education, their spouses, and their dependent children. Teachers employed full-time on military bases in Georgia shall also qualify for this waiver (BOR Minutes, 1988-89, p.43).
6. Career Consular Officials. Career consular officials, their spouses, and their dependent children who are citizens of the foreign nation that their consular office represents and who are stationed and living in Georgia under orders of their respective governments.
7. Military Personnel. Military personnel, their spouses, and their dependent children stationed in Georgia and on active duty, unless such military personnel are assigned as students to system institutions for educational purposes.
8. Research University Graduate Students. Graduate students attending the University of Georgia, the Georgia Institute of Technology, Georgia State University, and the Medical College of Georgia, which shall be authorized to waive the out-of-state tuition differential for a limited number of graduate students each year, with the understanding that the number of students at each of these institutions to whom such waivers are granted shall not exceed the number assigned at any one point in time.
9. Border County Residents. Residents of an out-of-state county bordering a Georgia county in which the reporting institution or a board-approved external center of the University System is located. Armstrong has agreements with Jasper and Beaufort counties, South Carolina.
10.National Guard Members. Full-time members of the Georgia National Guard, their spouses, and their dependent children. (BOR Minutes, April, 1998, pp. 16-17).
11.Students Enrolled in University System Institutions as Part of Competitive Economic Development Projects. Students who are certified by the Commissioner of the Georgia Department of Industry, Tourism and Trade as being part of a competitive economic development project.
10. Students in Georgia-based Corporations. Students who are employees of Georgia-based corporations or organizations that have contracted with the Board of Regents through University System institutions to provide out-of-state tuition differential waivers.
13.Students in Pilot Programs. Students enrolled in special pilot programs approved by the Chancellor. The Chancellor shall evaluate institutional requests for such programs in light of good public policy and the best interests of students. If a pilot program is successful, the tuition program shall be presented to the Board for consideration.
14.Students in ICAPP Advantage Programs. Any student participating in an ICAPP Advantage program.
15.Direct Exchange Program Students. Any international student who enrolls in a University System institution as a participant in a direct exchange program that provides reciprocal benefits to University System students.
16.Families Moving to Georgia. A dependent student who, as of the first day of term of enrollment, can provide documentation supporting that his or her supporting parent or court-appointed guardian has accepted full-time, self-sustaining employment and established domicile in the state of Georgia for reasons other than gaining the benefit of favorable tuition rates may qualify immediately for an out-of-state tuition differential waiver which will expire 12 months from the date the waiver was granted. An affected student may petition for residency status according to established procedures at the institution.
17.Recently Separated Military Service Personnel. Members of a uniformed military service of the United States who, within 12 months of separation from such service, enroll in a program for teacher certification and demonstrate an intent to become a permanent resident of Georgia. This waiver may be granted for not more than one year. Contact the Registrar's office for more information.

* Please consult the registrar's office regarding waiver requests.


## 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.
Other Fees and Deposits Fees may increase Fall 2004. Fee rates listed below are for Fall 2003 - Spring 2004
Application Fee (Non-Refundable): ...................................................... Undergraduate \$20.00
Graduate $\mathbf{\$ 2 5 . 0 0}$Must accompany initial application. Acceptance of application fees does not constituteacceptance of applicants.
Exit Exam Fees:
Announced in test bulletins.
Graduation Fee (Non-Refundable): ..... $\$ 47.00$
Payable by each candidate for graduation when graduation application is submitted (twosemesters prior to graduation). If candidate is receiving a second degree at the same graduationceremonies, an additional $\$ 10.00$ is due. The full $\$ 45.00$ is charged for a second degree awarded ata subsequent graduation ceremony. A fee of $\$ 25.00$ is charged for each replacement diploma.
Medical Technology Deposit (Non-Refundable): ..... $\$ 50.00$
Radiologic Sciences Deposit (Non-Refundable): ..... $\$ 100.00$
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 semestermatriculation fees).
Late Registration Fee (Non-Refundable): ..... $\$ 48.00$
Charged to students who register after the registration period.
Student Athletic Fee ..... $\$ 116.00$
Student Activity Fee ..... $\$ 41.00$
Student Technology Fee ..... $\$ 38.00$
Laboratory Science Fees
All students enrolled in the following laboratory science courses are required to pay additional fees.
BIOL 1107$\$ 30.00$
BIOL 1108 ..... $\$ 30.00$
BIOL 2081 ..... $\$ 30.00$
BIOL 2082 ..... $\$ 30.00$
CHEM 1211L ..... $\$ 30.00$
CHEM 1212L ..... $\$ 30.00$
PHYS 1111L ..... $\$ 30.00$
PHYS 1112L ..... $\$ 30.00$
PHYS 2211L ..... $\$ 30.00$
PHYS 2212L ..... $\$ 30.00$
PSYC 4000 ..... $\$ 15.00$
PSYC 3020 ..... $\$ 15.00$
PSYC 4080 ..... $\$ 15.00$

## Music Fees

All students (including music majors) are required to pay a fee for applied music courses.

## 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 scheduled courses (fees vary by course). 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 approved withdrawal form is received by the office of 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 a course after late registration. A drop slip should be completed in the Registrar's Office. Refund checks will be made payable to the student regardless who may have paid the fees. Refunds to students who paid by personal check will be delayed until assurance is made that the check is valid. Refunds are not made for graduation or late registration fees.

The refund amount for students withdrawing from the institution shall be based on a pro rata percentage determined by dividing the number of calendar days in the semester that the student completed by the total calendar days in the semester. The total calendar days in a semester includes weekends, but excludes scheduled breaks of five or more days and days that a student was on an approved leave of absence. The unearned portion shall be refunded up to the point of time that the amount earned equals $60 \%$.

Students who withdraw from the university when the calculated percentage of completion is greater than $60 \%$ are not entitled to a refund of any portion of institutional charges.

Refunds are based on the withdrawal date of the term's calendar days, not how many times individual classes have met.

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

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

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

## Return Check Policy

The university recognizes students will occasionally write non-sufficient funds checks. When a check is returned by the bank, the Financial Services office will notify the student. The university expects the student to immediately respond to this notice and pay the check plus the applicable service charges.

A service charge of $\$ 25.00$ or $5 \%$ of the check, whichever is greater, is assessed for returned checks. In addition to this charge, non-sufficient funds checks written for tuition payments will be assessed the late 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 bank error. Students should request reimbursement of the service charge from their bank.

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

A student whose check is returned for tuition will be dropped from their class roll. When the check and applicable charges are paid, the student will be added back to the class roll. If the check and charges are not paid, the student's account will be placed on "hold" and the student must pay for the future enrollment in cash or cash equivalent for one year. A service charge of $\$ 25$ or $5 \%$ of the returned check will be charged at the time of the subsequent enrollment.

If the student does not respond to the Financial Services office notice and pay the check and applicable service charges, the student will be removed from the class if the check was written for tuition.

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

## Fee Payment by Cash

All payments must be in U.S. currency. Cash payments can be made at the cashier's window in the Administration Building.

## Fee Payment by Credit Card

Credit cards (VISA and MasterCard) may be used to pay tuition for students. Partial payments, i.e. part credit card/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. Credit card payment is available in person (located in Victor Hall) or on the web. No credit card payments will be accepted over the telephone.

## Fee Payment by Check

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

Checks submitted with an old schedule/invoice, without a schedule/invoice, check amount less than total fees due, incomplete checks, counter checks, two-party checks, or post-dated checks will be mailed back to the student.

The student's social security number should be listed on the check. Only checks drawn on U.S. banks will be accepted.

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

Students who still owe from previous semesters must pay in cash, money order, or cashiers, check in order to have "holds"lifted immediately. If you pay by check, "holds" will remain until check clears the bank.

## Financial Aid Student Payment

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

Students who do not pre-register or do not complete financial aid paperwork on time will of course have their "excess" check delayed. In order to receive your "excess" check as soon as possible, you must pre-register and have all financial aid paperwork completed on time.

Financial Aid students who pre-register, but whose aid does not exceed fees, should submit the remaining payments 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 charged for the unpaid amount. Financial Aid students who register during regular registration should go to the cashier if they still owe fees.

All financial aid students who register through late registration and are owed money will have their "excess" checks mailed to them starting at the end of the third week of classes. Students whose financial aid is not completed prior to registration should be prepared to pay fees themselves and be reimbursed later in the term. Students with financial aid who want to pay fees early with personal funds must pay by the fee payment deadline.

## Financial Aid Excess Checks

All financial "excess" checks will be mailed to the student's address as listed in the registrar's office. (An excess check is the net amount of financial aid less all charges). This mailing will begin at the end of the third week of the term. After the third week, new "excess" checks will be mailed at the end of the following weeks. No excess checks will be released directly to students. Students should ensure that their correct mailing address is on file with the registrar's office.

## Student Account Information

The Business Office / Financial Services will no longer release student account information over the telephone. Students should inquire about their account over S.H.I.P. Student account information will only be released if the student appears in person with applicable identification.

This identification will be a picture ID and driver's license with Social Security Number or a Social Security card. This action was taken due to the increase in identity theft and because the caller's identity cannot be verified.

## Financial Obligations

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

## Brunswick/Liberty Center Financial Policies

Cash payments are not accepted. Mail personal checks, cashier's checks, or money orders to AASU in an official envelope along with your schedule/invoice. Payments must be received by Armstrong 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 only over the web. Partial payments, i.e., part credit cards/part cash or check, are not accepted.

Financial Aid Students. If you are an Armstrong Atlantic financial aid student taking classes at Coastal Georgia Community College or Georgia Southern University you will need to list crossregistration CRN on the Brunswick Center registration form.

## The student is responsible for:

1. Indicating on your Brunswick Center registration form that you are applying for aid through Armstrong Atlantic. (NOTE: Be advised that the hours you enroll in at CGCC or GSU will not be automatically input into Armstrong's systems; you MUST list the CRN for XREG hours and the total credit hours in CGCC or GSU classes. Your aid file will remain unprocessed for these hours if you neglect this step.)
2. A HOPE transient certificate of eligibility will be sent to the institution you are attending. HOPE will pay/reimburse the cost of tuition for the other institution and disburses the appropriate book allowance to students. Students must contact the other institution's financial aid office for the specific date of disbursement of funds.
3. Students attending CGCC will have transcripts sent to AASU as a matter of Brunswick Center policy. All students attending other institutions must insure that their transcripts are sent to AASU themselves. A delay in this step may cause future HOPE disbursements to be postponed until grades are received and reviewed.
The office of Financial Aid at Armstrong Atlantic may be contacted at 912-927-5272 or 1-800-633-2349. They may also be reached by logging into www.finaid.armstrong.edu. Brunswick Center staff may be contacted at 912-264-7227 or by visiting them at the Hargett Administration Building at Coastal Georgia Community College.
Notification of registration after the start of the term will result in a substantial delay of the process of your financial aid or possible denial of aid.

Refund Policy. 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 912-9275271. No refunds will be made to students dropping a course after late registration. 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

Armstrong/Savannah State Exchange Program. A student enrolled at Armstrong or Savannah State who pays the maximum tuition and fees amount may be eligible to take one course at the other institution at no charge. You should consult with the Registrar's Office regarding program details and the required documentation before registration.

All tuition and fees are due at registration according to the guidelines of the Board of Regents of the University System of Georgia. There are no deferments of fees or payments plans.

Students whose fees were paid by financial aid and who withdraw from school will have their refund returned to the 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 charged for the course and will receive a grade.

The university reserves the right to apply all payments, deposits, or financial aid to any unpaid student balances.

Brunswick Center and Liberty Center students should consult with Center staff for specific guidelines and procedures.

All students enrolled for classes will be charged the technology fee and, if applicable, the activity and athletic fees, regardless of the length of the class.

## 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 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 attendance minus expected family contribution equals need ( $\mathrm{COA}-\mathrm{EFC}=\mathrm{Need}$ ). If the family contribution is less than the cost of attendance, financial need has been established.

In general, students who apply by the priority deadline will have their aid processed by that term's beginning. Due to the fact that certain funds are limited, the 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, federal and state law heavily regulates the financial aid application and awards process, and as a result the process takes time. At least thirty-percent of Armstrong Atlantic State University students are 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 2003 federal tax returns, a completed verification worksheet, and a completed credit/benefits 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' 2003 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 priority deadlines can students expect to have funds available at the beginning of the semester. Students who do not meet the deadline may be required to pay their own fees for the semester. Please keep in mind that although we are here to help you, we are not responsible for delays caused by inaccurate or incomplete applications and files.

Mid Year Transfers. If you have attended another institution during the current academic year (June 30 of the current year to July 31 of next year), you must provide this information to the financial aid office. Aid received at another institution during this same academic year will be deducted from aid eligibility offered at Armstrong Atlantic per Federal regulations.

## 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 assistance. Financial aid cannot be used to pay for audited classes (Audited courses are courses which are not being taken for credit.) Federal student aid cannot be used to pay for Regents' Test Remediation coursework. 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 and loans 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.

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.

Alternate Application for Hope. Students who are only interested in being considered for a HOPE scholarship may complete an alternate application. Alternate application forms may be obtained in the financial aid office. EHOPE applications are available at www.gsfc.org. Applicants using the EHOPE to apply must notify Armstrong Atlantic s financial aid office.

## Available Information

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

Rights under Family Educational Education Rights and

Privacy Act (FERPA)
Types of aid available
Institutional information
Tuition Rates
Refund Policies
Return to Title IV Funds Policy
Requirements for Withdrawing
Accreditation Information
Completion/Graduation Rates
Campus security reports
Athletic program participation rates
\& financial support data

Registrar's Office
Financial Aid Office

Business Office
Business Office
Business Office
Registrar's Office
Registrar's Office
Registrar's Office
Public Safety Office

Athletic Department

## Deadlines

March 15 Fall semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor.
April 15 Fall semester deadline for submitting all supporting documentation requested by the financial aid office and deadline for submitting alternate application for HOPE.
August 1 Spring semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor.
September 1 Spring semester deadline for submitting all supporting documentation requested by the financial aid office and deadline for submitting alternate application for HOPE.
March 1 Summer semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the central processor.
April 1 Summer semester deadline for submitting all supporting documentation requested by the financial aid office and deadline for submitting alternate application for HOPE.
Students who miss these deadlines must be prepared to pay their own fees. Students must apply for financial aid every year. Awards are made only for the current year.

## Disbursement of Financial Aid

Disbursement of financial aid will be made only if the applicant has completed all requirements for receipt of aid, which includes submission of verification documents, if necessary. Students applying for loan funds must make an acceptance of this award before the financial aid office will process or disburse such funds. Verification of attendance must be attained for classes before aid is disbursed to the student's account. A student's enrollment in sessions that begin later in a semester may cause a delay of disbursement of aid due to verification of attendance in such classes. All financial aid excess checks will be mailed to students at their mailing address in AASU's system after verification of attendance is completed. Aid offered is based on full-time enrollment status unless otherwise indicated, and may be adjusted depending on hours enrolled.

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

Work study funds are earned on an hourly basis and are only paid for work performed. Funds from this program are 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) This program is open to eligible undergraduate students. Awards are based on need and are available to students who meet published deadlines. This program is awarded on fund availability and first-come, first-served basis.

Leveraging Educational Assistance Program (LEAP). This is a state funded grant for undergraduate, Georgia resident students who demonstrate substantial financial need. This program is awarded on fund availability and first-come, first-served basis.

## Employment

Federal College Work Study Program. This federally sponsored program is awarded based on need and availability. Students are awarded a specific dollar amount, and may earn up to this maximum each semester.

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.

Students in either program may not exceed nineteen hours of work per week, and may not work in more than one position per student.

## Scholarships

Many scholarships awarded on the basis of merit or need (or both) are available to entering freshmen. A scholarship committee makes award decisions during the spring of every year for the next academic year. Academic scholarship application forms are available in the financial aid office or at www.finaid.armstrong.edu. The freshmen applicant deadline for submitting scholarship applications is March 1. The deadline for returning, transfer, and graduate students is May 1.

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 financial aid web site www.finaid.armstrong.edu under the heading "Scholarship Bulletin Board" as they become available during the year. Students should check this web site periodically for any new scholarship offerings.

## HOPE-Helping Outstanding Pupils Educationally

The state of Georgia rewards exemplary academic performance with tuition scholarships at state universities and colleges.

General Qualifications for Entering Freshman. As entering freshmen, students must possess the following:

- legal residency of Georgia upon entering a Georgia post-secondary institution;
- 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. Please note HOPE does cover institutional fees such as lab fees.

HOPE funds may be applied only to tuition and mandatory fees. 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 by the appropriate deadline;
- 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 fall 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 $60^{\text {th }}$ or $90^{\text {th }}$ attempted semester hour, they will be given a second chance to receive a HOPE Scholarship for their junior and/or senior year.

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

The PROMISE Teacher Scholarship Program. This program provides service 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 or an out-of-state tuition waiver;
- minimum cumulative grade point average of 3.0 based on a 4.0 scale;
- academic classification as a junior or senior;
- acceptance in a teacher education program leading to initial certification.

The HOPE Teacher Scholarship Program. This program provides service 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 or an out-of-state tuition waiver;
- 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.)
Additional information on HOPE programs may be obtained at the GSFC web site (www.gsfc.org) or by calling them at $1-800-546-\mathrm{HOPE}$.

HOPE Teacher and HOPE Promise are state funded programs. The aid year for these programs begins in the summer and runs through the following spring. Applications for these programs become available in June. The Office of Financial Aid may not be notified of available funding for these programs until July $1^{\text {st }}$. These funds may not be available to apply toward tuition and fees by the fee payment deadline. Students will be reimbursed for tuition and fees paid when funding becomes available.

## 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. (6 hours for graduate and undergraduate)
- 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):
Sophomores (students who have 30 semester hours): \$3,500
Juniors and seniors (students who have successfully completed the first
60 semester hours of a four-year program):
Note: Juniors and seniors must have declared majors and been accepted into a baccalaureate degree program.

Regularly admitted graduate students (students enrolled in 6 credit hours or more of graduate level classes):
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. Students must also complete entrance counseling at www.nelnet.net.

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

Health Field Service Cancelable Loans: Legal residents of the State of Georgia who are formally admitted to and enrolled in an approved program of study may be eligible for service cancelable loans. All service cancelable loans are repaid by practicing in the specified filed in the State of Georgia. One calendar year of service repays each academic year of the loan. Applications are available in the Office of Financial Aid each year when the school receives confirmation of funding of the program. This confirmation is usually sent to the schools during the months of May or June. Applications are available to qualified students, in the Office of Financial Aid or from the College of Health Professions participating departments. To be eligible, a student must meet the following qualifications:

- File the FAFSA
- Be fully accepted into a Health Professions program
- Be making satisfactory academic progress in accordance with AASU's policy
- Complete and submit the Service Cancellation Benefits Application to the Office of Financial Aid

Failure to meet any of the above qualifications will result in your application not being processed. All incomplete applications will be returned to the student.

Georgia Student Finance Authority will determine who will receive these funds. The placement of service cancelable funds on your award letter does not guarantee that you will receive these funds, only that you have applied for them. Once your application has been approved by Georgia Student Finance Authority, you will receive further information from them. By applying for this service cancelable loan you are not eligible to apply for other service cancelable options such as ICAPP. Service cancelable Loans are a portion of and included in your Stafford Loan eligibility and loan limits. These loans are not in addition to the Stafford Loan Program.

## 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). This may be calculated by dividing the total number of hours attempted in both fall and spring terms by the total number of hours successfully completed. Grades of W (withdrawal), WF (withdrawal failure), V (audit), F (failure), U (unsatisfactory), NR (not reported), MW (military withdrawal), and I (incomplete) 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.
- Hope Scholarships. Hope scholars have to meet AASU's standards of academic progress requirements as well as the requirements set forth by HOPE.


## Appeal of Aid Suspension and Reinstatement of Aid

Students whose aid is terminated because they failed to meet the above requirements may appeal if they can demonstrate and document mitigating circumstances that affected their academic progress. Forms for this type of appeal are available in the financial aid office and via the AASU Financial Aid website. Students will be notified of the committee's decision approximately two weeks from the date appeals are submitted.

Students whose aid has been terminated or whose appeal has been denied by the SAP committee may regain eligibility for aid after completing 12 or more semester credit hours with a grade of C or better. Students may not use course work completed at other institutions to satisfy the requirement at AASU. These hours will be completed at the student's own expense. Students who have exceeded the $150 \%$ limit on attempted hours may not be reinstated eligibility in this manner.

If you have any questions, please contact the Financial Aid Office at 912/927-5272 or www.finaid.armstrong.edu. Appeals may be mailed to: AASU Financial Aid Office, SAP Appeal Committee, 11935 Abercorn Street, Savannah, GA 31419-1997. Appeals may also be faxed to 912-921-7357.

# 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 of all ages to adjust to university life and achieve their full potential. In particular, freshmen and transfer students are encouraged to read the section on orientation programs under Student Services.

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

## Residence Life and Food Service

Compass Point is AASU's new on-campus student residence community. Located in the heart of the campus, the apartment style facility offers the following campus living advantages:

- Two bedroom ( 760 sqft ) or four bedroom ( 1024 sqft ) apartments with residents having a private bedroom, wall-to-wall carpeting, tiled bathrooms and kitchen, and mini-blinds on all windows
- Private keys for each bedroom door so the room is always secure
- Furnished bedroom: twin bed, dresser, desk, shelves, and chair
- Bedrooms wired for private phones, cable TV, and high-speed Internet access
- Free basic cable, local phone, water, sewer, garbage collection, and an electricity allowance each month. Furnished living room: sofa, easy chair, tables, entertainment center
- Luxury kitchen with microwave, dishwasher, refrigerator/icemaker, oven/range, garbage disposal, pantry, dining counter
- Sprinklers in every room, smoke alarms in every bedroom and living room
- Community center with pool table, ping-pong, stereo, and TV
- Fifteen on-site community advisors
- Planned weekly activities
- Professional on-site management - resident manager lives on property
- Gated parking on site
- Debit card meal plan in the University cafeteria is available but not required.


## 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 many evenings until 7:30, the office is located on the second floor of Solms 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 Victor Hall, is open most evenings until 7:00.

Alcohol and Drug Education. The Office of Counseling and Volunteer Services 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 may coordinate support group meetings on campus and collaborates with local prevention and treatment facilities. Training is provided for residence hall community 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, and pizza are open during the academic year. A debit card meal plan is available for purchase.

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 internship and 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 required to register with the career services office via monster trak and become eligible for services.

Counseling Services. Services are offered to currently enrolled 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 at the Counseling Services Office on the first floor of Student Affairs at Compass Point or in the Division of Student Affairs on the second floor of the Memorial College Center.

Disability Services. The Office of Disability Services (ODS) provides reasonable accommodations to students with disabilities at no charge. It is the student's responsibility to self-identify to the Office of Disability Services and to provide complete, up to date documentation regarding the disability. Students with sensory loss, medical disability, mobility impairment, learning disability, head injury, ADD or psychological disabilities that substantially interfere with functioning may be eligible. Documentation regarding the diagnosis of Learning Disability, ADD and head injury must be reviewed and approved by the Regents' Center for Learning Disorders. Students with disabilities must meet all university admission requirements and academic standards. Accommodations are determined on an individual basis and may include: extended time on tests, low distraction test room, assistance finding volunteer note takers, books on tape or CD, enlargement of printed materials, use of adaptive equipment and sign language interpreters. Obtaining documentation of the disability and arranging accommodation takes time, so students are urged to contact the ODS in the Division of Student Affairs as soon as they are accepted for admission. Once a student is approved to receive accommodations, Advocacy Letters outlining approved accommodations are provided to the student to share with professors each semester. Adaptive software and equipment is available on campus. Documentation requirements for various disabilities and Disability Services policies and procedures are also available from ODS.

ID Cards. New Armstrong Atlantic ID cards are provided by Student Photographic Services in room 214 on the second floor of Memorial College Center. Operating hours for ID processing
are Monday-Thursday 12:00p.m. to 2:00p.m. and Mondays and Thursdays 4:00p.m. to 6:00p.m. when classes are in session.

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

Lane Library. Named for Mills B. Lane, prominent Savannah-Atlanta banker, philanthropist, and an early patron of the university, Lane Library was built in 1966 and substantially enlarged in 1975. The library, through its collections and an array of services, supports the academic programs of the university and the library and information needs of AASU students, faculty and staff.

The library collections include more than 200,000 books, almost 1,200 newspaper, journal, magazine, and other periodical subscriptions, and 18,000 individual audiovisual titles encompassing such media formats as compact discs, videocassettes, DVD's and educational software. Special collections include the University Archives and the Florence Powell Minis Collection which contains published materials of local history and regional interest and first editions by Conrad Aiken and other Savannah writers.

In addition, through the state-sponsored GALILEO system and through locally selected resources, library users have online access (www.library.armstrong.edu) to over 140 bibliographic and full-text databases of books and journal articles. Most journal articles and books that are not locally available or available electronically can be obtained from other libraries in Georgia and the United States via an interlibrary loan service.

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

Off-campus library services for Armstrong Atlantic programs are supported by local libraries and online library services. 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, GIL. Interlibrary loans may be requested through the library webpage (www.library.armstrong.edu) . In addition, numerous 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 mentors. The lab is located on the second floor of Solms Hall.

Minority Affairs. The purpose of the Office of Minority Affairs is to provide supportive services to ethnic minority students and assist students in participation in the life of the college. The Office of Minority Affairs provides services in the areas of academic outreach and student development.

Parking. All vehicles driven on campus must display a university parking decal in the front 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, the lab provides one-on-one assistance, and offers audiotapes and computer programs that foster the development of reading skills. The lab is located on the second floor of Lane Library.

Testing. The following state- and nation-wide testing programs are administered by the director of testing services: Academic Profile, Certified Health Education Specialist Examination
(CHES), College-Level Examination Program (CLEP), DANTES Subject Standardized Tests, GRE Subject tests, Independent and Distance Learning Examinations, Major Field Tests, Medical College Admission Test, Miller Analogies Test, National Board Dental Hygiene Examination, Pharmacy College Admission Test, the Praxis Series, the Regents' Testing Program, and the SAT On-campus. In addition, tests for career interests, study habits, learning styles, personal preferences, and abilities are provided free of charge with testing services. 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 at Student Affairs @ Compass Point, 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 Eta (Allied Health); Beta Beta Beta (Biology); Kappa Delta Pi; Lambda Nu (Radiologic and Imaging Sciences); Phi Alpha Theta (History); Pi Gamma Mu (Social Science); Pi Mu Epsilon (Mathematics); PsiChi (Psychology); Sigma Tau Delta (English); Sigma Theta Tau (Nursing); Upsilon Pi Epsilon (Computer Science); Joel E. Hildebrand Chemistry Society.

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, 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 studentathletes who participate in the intercollegiate program. The men's athletic teams consist of basketball, baseball, golf, and tennis. Women's teams include basketball, softball, tennis, and volleyball. Cheerleaders are also sponsored. Armstrong Atlantic State University is affiliated with the Peach Belt Athletic Conference, a 12-school conference consisting of schools from Florida, Georgia, North Carolina and South Carolina (Armstrong Atlantic State University, Augusta State University, Clayton College and State University, Columbus State University, Francis Marion University, Georgia College and State University, Kennesaw State University, Lander University, UNC Pembroke, University of North Florida, USC Aiken, and USC Spartanburg).

Intramurals and Recreation. The university places a high priority on its intramural and campus 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, 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; Muslim Students Association; Wesley Fellowship; Newman Club; Generation of Faith Ministries.
- Greek: Delta Sigma Theta, Kappa Alpha Psi, Phi Beta Sigma, Alpha Phi Omega, and Theta Xi Alpha.
- Professional: Armstrong Biological Society; American Chemical Society; AASU Engineering Society; Armstrong Student Public Health Association; Armstrong Association of Nursing Students; American Dental Hygiene Association; Medical Technologies Society; Rho Tau (PrePhysical Therapy); Georgia Association of Educators;The E. B. Twitmyer Society (Psychology); Armstrong Economic Club; Mathematical Association of America; Music Educators National Conference; Radiologic Sciences Student Association; National Art Education Association; Physical Therapy Club; Criminal Justice Club; The Philosophical DebateGroup; Political Science Club; Respiratory Therapy Club; National Student Speech, Language and Hearing Association; Student Council for Exceptional Children; Association of Computing Machinery.
- Special Interest: AASU Astronomy Club; Armstrong Environmental Coalition; Band; Cercle Francais (French Club); Chorus;Ebony Coalition; Gospel Choir; Honors Student Organizaion; International Student Organization; Masquers; Unity and Diversity League; College Republicans; American Go Association; Rotaract; and HOLA.
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 - 212 Solms Hall.

- All undeclared majors
- Students with CPC deficiencies in science, social science, or foreign language
Academic Assistance Program - Victor Hall.
- All students currently enrolled in learning support courses
- Students with CPC deficiencies in math and/or English

Office of Adult Academic Services - Victor 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 preprofessional programs should obtain advisement in their departments.

## Academic Records

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

Armstrong Atlantic follows the published guidelines established by the American Association of Collegiate Registrars and Admissions Officers (AACRAO) and the Family Education Rights and Privacy Act (FERPA) for record retention and disposition. Armstrong Atlantic publishes policies on the confidentiality of records in the official student handbook, Students Illustrated, and in the undergraduate and graduate catalogs.

## Academic Renewal for Returning Students

Students who return to college after an absence of five 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. To be eligible, students must not have been awarded an associate or bachelor's degree. Students interested in the academic renewal program may contact the office of adult academic services at 912/961-3163.

## Armstrong Atlantic State University Academic Standing Policy

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

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

## Semester Hours Attempted <br> Required Overall GPA (at Armstrong and elsewhere)

0-20 Attempted Hours 1.5
21-40 Attempted Hours 1.7
41-60 Attempted Hours 1.9
Over $60 \quad 2.0$
Academic Warning: Students who fall below the required GPA for the hours attempted for the first time are placed on academic warning, but remain in good academic standing with the university.

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

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

Academic Suspension: Students on academic probation who neither achieve the required overall GPA nor earn at least a 2.0 GPA during the probationary semester will be placed on academic suspension from the university.

Students suspended for the first time must sit out for the duration of one semester. Students who wish to attend classes during the semester immediately following the suspension must submit an appeal to the AASU Academic Appeals Committee. 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.

Students suspended for the second time must sit out for the duration of one calendar year. Students who wish to attend classes during the three semesters immediately following their second suspension must submit an appeal to the AASU Academic Appeals Committee, if they have not been absent from the university for a minimum of one year.

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

Academic Standing Appeals: Students appealing to the university for readmission before the required absence should complete and submit an academic appeals form to the asst. dean of enrollment services no later than two weeks prior to the beginning of the term. All appeals should state the nature of any extenuating circumstances relating to the academic deficiency. The AASU

Academic Appeals Committee will make a recommendation to the president, and the decision of the president is final.

Students approved for readmission by the AASU Academic Appeals Committee are placed on academic probation and must maintain term GPA of 2.0 or higher to continue enrollment.

## 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 learning support program.

## 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
1-29
30-59
60-89
90 or more

## Classification

Freshman
Sophomore
Junior
Senior

## Dropping Courses

Students who wish to drop a course after late registration 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.

Policy for dropping Learning Support courses:

- Students enrolled in both credit and a required learning support course may not withdraw from the learning support course unless they also withdraw from credit courses carrying three or more semester hours.
- If a student is enrolled in two or more learning support courses and withdraws from one learning support course, the student may remain enrolled in other learning support courses and in credit courses carrying one or two semester credit hours only.
- After the twelfth week of the semester (fifth week for summer semester only), the student will be allowed to remain in the 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.
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

A (Excellent)
B (Good)
C (Satisfactory)
D (Passing)
F (Failure)
W (Withdrew, no penalty)
WF (Withdrew, failing)
P (Incomplete)
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.

A HOPE GPA is calculated for HOPE scholarship recipients and displayed on the Advising TranGuide located on the web. The HOPE GPA includes all attempted hours and may differ from a student's Overall GPA.

## 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.

## Overloads and Courses at Other Colleges

Permission to enroll for more than 18 semester hours will be granted by the Registrar's Office under the following conditions.

$$
\begin{array}{ll}
- & \text { Student has earned a 3.0 GPA in the preceding semester; or } \\
- & \text { Student has earned a 3.0 Overall GPA; or } \\
- & \text { Student requires an extra course in the one or two semesters prior to } \\
\text { graduation. }
\end{array}
$$

No student will be allowed to register for more than 21 semester hours. Only the dean of the college of a student's major may make exceptions to the conditions outlined above. 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, unless written permission from the appropriate dean is 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

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

## 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 smaller and innovative classes in the place of certain core curriculum 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, 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 opportunities beyond the classroom, including a special fall orientation, field trips, social gatherings, and participation in regional and national conferences. The program is based in a suite of classrooms and a lounge in Solms Hall, a comfortable facility with a friendly and collegial atmosphere and some of the most powerful computers on campus. Current enrollment in the honors program is about 125 . A limited number of lucrative scholarships are available for qualified students who meet and maintain high standards of academic performance. For more information and an application form, please contact the director of the honors program, Dr. Jill Miller, 912/921-7494, (fax) 912/921-5688, or millerji @ mail.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 honors courses, which may include:

- ARTS 2720 - Honors Art History II
- BIOL 1107H/1107A - Honors Principles of Biology I and Lab
- BIOL 1108H/1108A - Honors Principles of Biology II and Lab
- CSCI 1301H - Honors Introduction to Programming Principles
- ECON 2106H - Honors Microeconomics
- ENGL 1102H - Honors Composition II
- ENGL 2100H - Honors Literature and Humanities
- GEOL 2010H - Honors Physical Geology
- HIST 1112H - Honors Civilization II
- HONS 2000 - Honors Topics in Global Perspectives
- MATH 1161H - Honors Calculus I
- PSYC 1101H - Honors General Psychology

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

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

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

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

## 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.

Coursework Taken at Other Institutions and Credit by Examination. Students pursuing a degree from Armtrong Atlantic must seek prior approval from the appropriate department head or dean before attempting to meet an AASU requirement by enrolling in coursework at another institution or by signing up for credit by examination. Failure to seek prior approval places the student at risk of taking coursework that may not satisfy degree requirements.

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. Develop an understanding and appreciation of literature and the arts.
D. Exhibit knowledge of the history and politics that have shaped diverse societies and cultures.
E. Exhibit a basic understanding of the sciences and their applications.
F. Exhibit critical thinking skills and apply problem solving in a variety of situations.
G. Apply mathematical principles and reasoning across disciplines.

## 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 | Science Majors | Clinical Health Majors <br> Art |
| :--- | :--- | :--- |
| Applied Physics | Dental Hygiene |  |
| Criminal Justice | Biology | Medical Technology |
| Economics | Chemistry | Nursing |
| Education | Computer Science | Radiologic Sciences |
| English | Mathematics | Respiratory Therapy |
| Fine Arts | Physical Therapy |  |
| General Studies | GTREP/RETP (pre-engineering) |  |
| HealthScience | Sports Medicine |  |
| History |  |  |
| Information Technology |  |  |
| Music |  |  |
| Political Science |  |  |
| Psychology |  |  |
| Spanish |  |  |
| Theatre |  |  |

## 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 engineering studies students.
- For non-science majors, the two science courses do not have to be in sequence, and one of the science courses may be a non-lab course.
- Science majors must take a lab science 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 biology, 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 core areas A-E.


## Core Area A:

Essential Skills 9 hours
ENGL 1101 - Composition and Rhetoric ..... 3 hours
ENGL 1102 or ENGL 1102H - Composition and Literature 3 hours
One course selected from
MATH 1101 - Mathematical Modeling ..... 3 hours
MATH 1111 - College Algebra 3 hours
MATH 1113 - Pre-calculus Mathematics
Minimum requirement for applied physics, biology, chemistry, computer science,mathematics, and physical therapy majors
MATH 1161 or 1161 H - Calculus I 4 hours
Minimum requirement for engineering students
Core Area B:
Institutional Options ..... 4-5 hours

1. Ethics and Values ..... 2-3 hours
One course selected from:
CHEM 2600 - Ethical Theories and Moral Issues in the Sciences
ENGL 2000 - Ethics and Values in Literature
ETHC 2000 - Interdisciplinary Ethics
HIST 2000 - Ethics and Values in History
PHIL 2251 - Introduction to Ethics and Contemporary Moral Philosophy
POLS 1200 - Ethical Theories and Moral Issues in Government
WMST 2101 - Ethics, Values, and Women's Studies
2. Global Perspectives ..... 2-3 hours
One course selected from:
ANTH 1150 - Global Perspectives in Anthropology: Peoples of the World CHEM 2200 - Science, Technology, and the Modern World

CRJU 2010 - Universal Justice

ECON 1150-Global Economic Problems

ENGL 2050 - Africa and the Diaspora

EURO 2000 - Introduction to the European Union

GEOG 1100 - World Regional Geography

GEOG 2120 - Cultural Geography

HIST 1111 - Civilization I

HIST 1112 or HIST 1112H - Civilization II

HIST 2100 - The African Diaspora

HLPR 2010 - Culture, Illness, Diagnosis and Treatment

HONS 2000 - Honors Topics in Global Perspectives

POLS 1150 - World Politics

POLS 2290 - Foundations of International Relations

WMST 2101- Ethics, Values, and Gender

## Core Area C:

Humanities \& Fine Arts ..... 6 hours

1. Literature or Philosophy ..... 3 hoursOne course selected from:
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2. Art, Music or Theatre
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
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## Core Area D:

Math,Science \& Technology10-11 hoursOption I. Non-Science Majors:1. One lab science course selected from:4 hoursBIOL 1107 or 1107 H - Principles of Biology ICHEM 1151/1151L - Survey of Chemistry ICHEM 1211/1211L - Principles of Chemistry IGEOL 2010H - Honors Physical GeologyPHSC 1211/1211L - Physical EnvironmentPHYS 1111/1111L - Introductory Physics IPHYS 2211/2211L - Principles of Physics 1SCIE 1100/1100L - Chemical Environment2. One science course selected from: 3-4 hours
ASTR 1010 - Astronomy of the Solar System ASTR 1020 - Stellar and Galactic Astronomy BIOL 1107 or 1107 H - Principles of Biology I BIOL 1108 or 1108 H - Principles of Biology II BIOL 1120 - The Diversity of Life BIOL 1130- Human Biology BIOL 1140 - 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 or CHEM 1212H/1212A - Principles of Chemistry II GEOL 2010 or 2010H - Introduction to Physical Geology PHSC 1211 - Physical Environment 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 SCIE 1000 - Introduction to Scientific Inquiry SCIE 1100/1100L - Chemical Environment
3. One course in mathematics, science, or technology chosen from 3 hours ASTR 1010-Astronomy of the Solar System ASTR 1020 - Stellar and Galactic Astronomy BIOL 1107 or 1107 H - Principles of Biology I BIOL 1108 or 1108H - Principles of Biology II BIOL 1120 - The Diversity of Life
BIOL 1130 - Human Biology
BIOL 1140 - Environmental Biology
CHEM 1211/1211L - Principles of Chemistry I
CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II

CSCI 1150 - Fundamentals of the Internet and World Wide Web
CSCI 1301 or CSCI 1301H - Introduction to Programming Principles
GEOL 2010 or GEOL 2010H - Introduction to Physical Geology
MATH 1113 - Precalculus Mathematics
MATH 1161 or 1161 H - Calculus I
MATH 1950 - Applied Mathematics for Non-Science Majors
MATH 2200 - Elementary Statistics
MATH 2900 - The Spirit and Structure of Mathematics
PHSC 1211 - Physical Environment
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
SCIE 1000 - Introduction to Scientific Inquiry
SCIE 1100/1100L - Chemical Environment

## Option IIA. Science Majors:

1. Laboratory science sequence 8 hours
BIOL 1107/1108 or $1107 \mathrm{H} / 1108 \mathrm{H}$ (and labs) - Principles of Biology I/II
CHEM 1211/1212 or 1212H(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
2. One course in mathematics, science, or technology .................................................. 3 hours

MATH 1161 or 1161 H - Calculus I
Required for applied physics, chemistry, computer science, and mathematics majors MATH 2072 - Calculus II
Required for engineering students
MATH 2200 - Elementary Statistics
Required for biology and physical therapy majors
Option IIB. Clinical Health Majors:

1. Biology, chemistry or physics sequence 8 hours
BIOL 1107/1108 or 1107H/1108H (and labs) - Principles of Biology I/II
CHEM 1151/1152 (and labs) - Survey of Chemistry I/II
CHEM 1211/1212 or 1212H(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
2. One course in mathematics, science, or technology 3 hours MATH 2200 - Elementary Statistics

## Core Area E:

Social Sciences ..... 12 hours

1. American and Georgia History and Constitution ..... 3 hours
HIST/POLS 1100 - Political History of America and Georgia
2. World Civilization3 hours3 hoursOne course selected from:HIST 1111 - Civilization IHIST 1112 or HIST 1112H - Civilization II
3. Social Sciences ..... 3 hoursOne course selected from:
ANTH 1102 - Introduction of AnthropologyECON 2105 - Principles of Macroeconomics
ECON 2106 - Principles of Microeconomics
PSYC 1101 or PSYC 1101H - Introduction to Psychology
SOCI 1101 - Introductory Sociology

4. History or Social Sciences .............................................................................. 3 hours<br>One course selected from:<br>ANTH 1102 - Introduction to Anthropology<br>ECON 2105 - Principles of Macroeconomics<br>ECON 2106 - Principles of Microeconomics<br>GEOG 2120 - Cultural Geography<br>HIST 1111 - Civilization I<br>HIST 1112 or HIST 1112H - Civilization II<br>HIST 2111 - History of America to 1877<br>HIST 2112 - History of America since 1865<br>POLS 2100 - Introduction to Political Science<br>PSYC 1101 or PSYC 1101H - Introduction to Psychology<br>SOCI 1101 - Introductory Sociology<br>WMST 1101 - Introduction to Women's Studies

## 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 skills of reading and writing. The Regents' Testing Program has been developed to help in the attainment of 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 competence in the areas of reading and writing.

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 or courses 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 see the composition coordinator in the Department of Languages, Literature and Philosophy or visit the Writing Center during their first semester of enrollment to become familiar with Regents' testing requirements. Transfer students must pass the test no later than their second semester of enrollment at AASU. 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. 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 met the Regents' Test requirement 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 30th credit hour. 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 part. Students will also be considered as having passed a part of the test if they achieve a score on another standardized test as specified by the Senior Vice Chancellor for Academic and Fiscal Affairs. Scores on other standardized tests as specified by the Senior Vice Chancellor for Academic and Fiscal Affairs may be used to fulfill Regents' Test requirements. Such scores must be from a national test administration and must indicate a very high probability (at least 0.95 ) of passing the Regents' Test. Tests used to fulfill the essay requirement must include an externally graded writing sample. The following test and scores are approved and other tests will be considered as data become available:
a. Students with SAT Verbal scores of at least 510 or ACT Reading scores of at least 23 will be considered to have fulfilled the reading comprehension requirement of the Regents' Test. Scores must be from a national administration of the SAT or ACT.
(Scores from institutional SAT or residual ACT tests will not be acceptable for this purpose.) b. Students with College Board Advanced Placement (AP) English Language and Composition or English Literature and Composition score of at least 3, International Baccalaureate (IB) higher-level English scores of at least 4, or SAT II English Writing scores of at least 650 will be considered as having fulfilled the essay requirement of the Regents' Test and do not need to take the essay portion of the Regents' Test.
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. AASU will require students to consult a Regents' Test Prepartion coordinator and may require remediation as appropriate. Students who delay taking core courses in English or delay taking the test are most likely to find remediation (RGTR 0198 and/or RCTE 0199) required.
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 who are not subject to the remediation requirement 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 consistent with their completion of RGTR 0198 or RGTE 0199.
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). Students entering with AP credit, credit from other advanced placement programs or examinations, and/or joint enrollment credit may take the Regents' Test during their first two semesters of enrollment. They are not subject to Systemmandated remediation requirements unless they have earned at least 45 hours and been enrolled at least two semesters.
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 (RGTE 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.

## Attendance Policies for Remedial Courses.

1. A student who violates the published attendance policy for RGTR 0198 or RGTE 0199 will be dropped from that class and all other classes in the present term.
2. After having been dropped from RGTR 0198 or RGTE 0199 , the student will be allowed to register for only appropriate remedial courses in the subsequent term.
3. A student who violates the attendance policy for RGTR 0198 or RGTE 0199 will receive a WF for the course.
Attendance policies will be interpreted and followed strictly from the first class day. The goal of these policies is to facilitate the eventual graduation of the student. Delays in successful completion of remedial courses clearly put graduation at risk.

## 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 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;
- by earning an acceptable score on an instititutional or standardized test as follows:
U.S./Ga. constitution: AP - Government and Politics or CLEP - American Government and pass the AASU test on the Georgia constitution.
U.S./Ga. history: AP - U.S. History or CLEP - History of the U.S. I or History of the U.S. II


## Requirements for Bachelor of Arts and Bachelor of Science Degrees

Requirements for major programs leading to baccalaureate degrees are described in the departmental listings. For baccalaureate degrees, a minimum of 120 semester hours, exclusive of the required physical education course(s), 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 presented below 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

## Degree

## Associate of Arts

Associate of Applied Science in Criminal Justice

Bachelor of Arts in:

## Art

Economics
English
English(Communications)
English with Teacher Certification
History
History with Teacher Certification
Music
PoliticalScience
Political Science with Teacher Certification
Psychology
Psychology Leading to Teacher Certification in Special Education: Behavior Disorders Spanish
Spanish with Teacher Certification (P-12)
Theatre
Bachelor of Fine Arts in Visual Arts
Bachelor of Music Education
Bachelor of Science in:
Applied Physics
Biology
Biology with Teacher Certification
Chemistry
Chemistry with Teacher Certification
Criminal Justice
MathematicalSciences
Mathematical Sciences with Teacher Certification

Master of Arts in History
Master of Science in Criminal Justice

## Department

Interdepartmental
Criminal Justice, Social and Political Science

Art, Music, and Theatre
Economics
Languages, Literature, and Philosophy
Languages, Literature, and Philosophy
Languages, Literature, and Philosophy
History
History
Art, Music, and Theatre
Criminal Justice, Social and Political Science
Criminal Justice, Social and Political Science
Psychology
Psychology
Languages, Literature, and Philosophy
Languages, Literature, and Philosophy
Art, Music, and Theatre
Art, Music, and Theatre
Art, Music, and Theatre

Chemistry and Physics
Biology
Biology
Chemistry and Physics
Chemistry and Physics
Criminal Justice, Social and Political Science
Mathematics
Mathematics

History
Criminal Justice, Social and Political Science

## School of Computing

Degree<br>Bachelor of Information Technology<br>Bachelor of Science in Computer Science<br>Master of Science in Computer Science

Department<br>Information Technology<br>Computer Science<br>Computer Science

## College of Education

## Degree

Bachelor of Science in Education in:
Art Education (P-12)
Early Childhood Education (PK-5)
Middle Grades Education (4-8)
Business Education*
Health and Physical Education
Speech-Language Pathology
SpecialEducation: Cross-Categorical
Master of Education in:
Adult Education
Early Childhood Education
Middle Grades Education
Secondary Education
BroadfieldScienceEducation
BroadfieldSocial ScienceEducation
EnglishEducation
Mathematics Education
Special Education
Behavior Disorders
Learning Disabilities
Speech/Language Pathology

## Department

Early Childhood Education
Early Childhood Education
Middle/Secondary Education
Middle/Secondary Education
Health and Physical Education
Special Education
Special Education

Middle/Secondary Education Early Childhood Education Middle/Secondary Education

Middle/Secondary Education Middle/Secondary Education Middle/Secondary Education Middle/Secondary Education

SpecialEducation
Special Education
SpecialEducation

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.

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## College of Health Professions

## Degree

Associate of Science in Dental Hygiene
Bachelor of Health Science
Bachelor of Science in:
Dental Hygiene Education
Medical Technology
Nursing
Physical Therapy*
RadiologicSciences
Respiratory Therapy
Speech-Language Pathology
Master of Health Services Administration
Master of Public Health
Master of Science in:
Nursing
Physical Therapy
Sports Medicine

Department
Dental Hygiene
HealthSciences

Dental Hygiene
Medical Technology
Nursing
Physical Therapy
RadiologicSciences
Respiratory Therapy
Speech-Language Pathology
Health Sciences
HealthSciences

Nursing
Physical Therapy
Health Sciences

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


# School of Graduate Studies 

Michael E. Price, Interim Executive Director

## Philosophy, Mission and Goal

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

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

## Degrees

Armstrong Atlantic State University is authorized to grant the following graduate degrees:
Master of Arts
History
Master of Education
Adult Education
Early Childhood Education
Middle Grades Education
Secondary Education
Broadfield Science Education
Broadfield Social Science Education
English Education
Mathematics Education
Special Education
Behavior Disorders
Learning Disabilities
Speech/Language Pathology
Master of Health Services Administration
Master of Public Health
Master of Science
Computer Science
Criminal Justice
Nursing
Physical Therapy
Sports Medicine

## 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 those students whose academic records indicate that they can successfully complete graduate work. 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
800/633-2349

# College of Arts and Sciences 

Ed Wheeler, Dean<br>Mark Finlay, Assistant 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; 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
Economics
English
English (Communications)
English with Teacher Certification
History
History with Teacher Certification
Music
Political Science
Political Science with Teacher Certification
Psychology
Psychology Leading to Teacher Certification in Special Education: Behavior Disorders
Spanish
Spanish with Teacher Certification (P-12)
Theatre
Bachelor of Fine Arts in Visual Arts
Bachelor of General Studies
Bachelor of Music Education


#### Abstract

Bachelor of Science in: Applied Physics Biology Biology with Teacher Certification Chemistry Chemistry with Teacher Certification Criminal Justice Mathematical Sciences Mathematical Sciences with Teacher Certification Bachelor of Science in Education in: Art Education (P-12) Master of Arts - History Master of Science - 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 and naval science is located in the Special Programs section. Teacher certification programs are offered in cooperation with the College of Education, approved by the Georgia State Professional Standards Commission, and accredited by the National Council for Teacher Education. Detailed information on teacher certification programs is found in the College of Education section of this catalog.


## Minors

Departments in the College of 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.

## GENERALSTUDIES

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 weekday evenings and on weekends, as well as during normal business hours. Interested students should contact the director to schedule appointments.

## Special Programs

Both the associate of arts and the bachelor of general studies degrees are 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

To qualify for either the associate of arts or the bachelor of general studies degree, a student must earn at Armstrong Atlantic at least 30 semester hours of credit applicable toward the degree.

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 may be earned in the general studies area, and all grades in the area of concentration must be C or better.

## PROGRAM FOR THE DEGREE OF ASSOCIATE OF ARTS

A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hoursPhysical Education2 hours
B. Additional Requirements ..... 18 hours
COMM 2280 - Speech Communication
Fifteen additional semester hours of electives or courses in the area of concentrationStudents planning work toward a baccalaureate degree should select courses that meet listedrequirements of that degree program.
Total Semester Hours
C. Regent's Test and Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF GENERAL STUDIES
A. General Requirements (Core Areas A, B, C, D, and E)COMM 2280 - Speech Communication
One or two courses selected from:
ARTS 1100 - Art Appreciation
ARTS 2710 - Art History I
ARTS 2720 - Art History II
ARTS 1270/MUSC 1270 - World Art and Music
MUSC 1100 - Music Appreciation
PHIL 2201 - Introduction to Philosophy
PHIL 2251 - Ethics and Contemporary Moral Philosophy
THEA 1100-Theatre Appreciation
THEA 1200 - Introduction to Theatre
THEA 2410-Oral Interpretation
Two foreign language courses in sequence
One or 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
GEOG 2120 - Cultural Geography
HIST 2111 - History of America to 1877
HIST 2112 - History of American Since 1865
POLS 2100 - Introduction to Political Science
PSYC 1101/H - Introduction to Psychology/Honors
SOCI 1101 - Introductory Sociology
WMST 1101 - Introduction to Women's Studies
One or two core area D courses (not used for core area D)
Physical Education3 hours
B. Major Field CoursesMinimum of 39 hours at 3000 level or aboveMaximum of 27 hours in any discipline (excluding courses taken under General Requirements)No more than two Ds in the General Studies section
At least 9 of the 18 hours in the General Studies section must be completed at Armstrong Atlantic
General Studies18 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. Electives24-27 hours
Total Semester Hours ..... 123 hours
D. Regents' Test and Exit Exam
ART, MUSIC, AND THEATRE
FacultyTom Cato, Department HeadJames Anderson
Mark Johnson
David Brown
Rachel Green
Kevin Hampton
Robert Harris
Pang-Chieh Hsu
John Jensen
Linda Jensen
Peter Mellen
Jill Miller
Roger Miller
Steve Primatic
Randall ReeseLucinda 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 fine arts in visual arts; 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. All entering students in music (including transfer students) must take placement examinations as appropriate in applied music, music theory, and music history. Students wishing to major in art are expected to present a portfolio of previous work in at least one medium. Course work at other institutions in studio art may not be counted towards graduation until a portfolio of artwork is submitted demonstrating competency in areas in which classes have been completed.

Admission to the BFA program requires students to apply to the program after completion of area $F$ with a cumulative grade point average of at least 3.0 , completion of one major supportive course with a grade of C or higher, and submission of a portfolio of 6 to 10 pieces of artwork completed in area F and other major supportive courses.

## Special Requirements

A variety of departmental policies and regulations affects music majors, including requirements for recital attendance, ensemble participation, piano proficiency, recital participation, applied music levels, and the Rising Junior Applied Music Examination. These rules are listed in the Handbook of Policies and Regulations for Music Majors, available in the departmental office.

Please see the Fees section of this catalog for information on applied music fees.

## Progress Requirements

To earn a bachelor's degree in art, music or drama/speech, students must complete with a grade of C or better all art, music or drama/speech courses required in the program of study. To fulfill the prerequisites for any art, music or drama/speech course students must obtain a grade of C or better in each prerequisite course.

## Minors

## Art

18 hours
ARTS 1020 or ARTS 1030
ARTS 2710 or ARTS 2720
One lower division studio art course
Nine semester hours of upper division art courses from the art studio and/or art history areas

## Music

18 hours
MUSC 1100, 1111, 1130
Three semester hours from: MUSC 1112, 1130, 1300, 1400, 2520, 2540, 2550, 2560
Nine semester hours from: MUSC 3710, 3720, 4160, 4200, 4210, 4250, or any other upper division music course

## Theatre

 15 hoursThree 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 FINE ARTS IN VISUAL ART

A. General RequirementsCore Areas A, B, C, D, and E42 hoursCore Area F 18 hoursARTS 1010 - Drawing IARTS 1011 - Drawing II
ARTS 1020-2D Design
ARTS 1030-3D Design
ARTS 2011 - Painting I
ARTS 2710 - Art History I
Physical Education3 hours
Admission to the B.F.A. program (see Admission Requirements)
B. Major Field Courses ..... 18 hours
ARTS 2012 - Painting II
ARTS 2040 - Photography
ARTS 2150 - The Computer in Art
ARTS 2400 - Introduction to Craft
ARTS 3300 - Ceramics I
ARTS 3400 - Printmaking I
C. Art History Courses ..... 9 hours
ARTS 2720 - Art History II
ARTS 5750U - Contemporary Art \& Criticism
ARTS 4890 - Topics in Art History
D. Studio Art Electives
27 hours chosen from the following:27 hours
ARTS 2110 - Graphic Design
ARTS 3030-Oil Painting
ARTS 3040 - Watercolor Painting
ARTS 3130 - Drawing III
ARTS 3140 - Intermediate Photography
ARTS 3150 - Color Photography
ARTS 3170 - Experimentation in Photography
ARTS 3310 - Pottery Techniques
ARTS 3330 - Ceramic Sculpture
ARTS 3350 - Glaze Experimentation
ARTS 3620 - Jewelry/Enameling
ARTS 3630 - Fabric Design
ARTS 3640 - Weaving
ARTS 3660 - Papermaking
ARTS 3700 - Figure Sculpture
ARTS 3710 - Sculpture Materials
ARTS 3720 - Fiber Sculpture
ARTS 3800 - Electronic Image Manipulation
ARTS 4140 - Figure Drawing
ARTS 4890 - Selected Studies in Art (up to 9 hrs)
ARTS 4900 - Independent Study
D. Capstone Courses ..... 6 hours
ARTS 4750 - B.F.A. ProjectARTS 4700 - Senior Portfolio
Total Semester Hours123 hours
E. Regents' Test and Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ART
A. General Requirements
Core Areas A, B, C, D, and E ..... 42 hours
Core Area F 18 hoursARTS 1010 - Drawing IARTS 1011 - Drawing II
ARTS 1020-2D Design
ARTS 1030-3D Design
ARTS 2011 - Painting I
ARTS 2710 - Art History I
Physical Education ..... 3 hours
B. Major Field Courses ..... 39 hours
ARTS 2012 - Painting II
ARTS 2040 - Photography
ARTS 2150 - The Computer in Art
ARTS 2400 - Introduction to Craft
ARTS 2720 - Art History II
ARTS 3130 - Drawing III
ARTS 3300 - Ceramics I
ARTS 3400 - Printmaking I
ARTS 3700 - Figure Sculpture
ARTS 5750U - 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
C. Related Field Courses ..... 6 hoursForeign Language 1002 - Elementary Language IIForeign Language 2001 - Intermediate Language I
D. Electives ..... 15 hours
15 semester hours of courses at the 3000 level or above
Total Semester Hours ..... 123 hours
E. Regents' Test and Exit Exam
PROGRAMFORTHEDEGREEOFBACHELOROF ARTSINMUSIC
A. General Requirements Core Areas A, B, C, D, and E ..... 42 hours
Core Area F ..... 18 hours
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 or 2560 (3 semesters) - Wind Ensemble
Physical Education3 hours
B. Major Field Courses ..... 26 hours
MUSC 1000 (7 semesters) - Recital Attendance
MUSC 2112 - Intermediate Theory II
MUSC 2130 ( 1 semester) - 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 or 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 or 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
C. Concentration Electives

22 hours
Select one of the following track options:

## Liberal Arts

22 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

## Keyboard Performance

MUSC 2580 - Keyboard Accompanying
MUSC 4200 - Piano Literature I
MUSC 4210 - Piano Literature II
MUSC 4400 (2 semesters) - Applied Music
12 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 \& Arranging
MUSC 4120-Counterpoint
12 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 \& Arranging
MUSC 4120 - Counterpoint
14 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 \& Arranging
MUSC 4120 - Counterpoint
12 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 5750U - Contemporary Art and Criticism

## Total Semester Hours

## 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 Conductingor MUSC 3330 - Band Methods and
MUSC 4810 - Advanced Instrumental Conducting
D. Related Field Courses 21 hours
PSYC 1101 or 1101H - Introduction to Psychology/Honors
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities CEUG 4110 - Student Teaching P-12
CEUG 4630 - Classroom Management P-12
Total Semester Hours130 hours
E. Regents' Test, General Education Exit Exam, Teaching Portfolio, Current Certifica- tion in CPR/First Aid, Orientation to Teaching or equivalent, Admission to Teacher Education including Praxis I, Piano Proficiency Exam, Praxis II Exit Exam, Gradua- tion 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 $\mathbf{F}$ ..... 18 hours
ARTS 1020-2D DesignARTS 1030-3D DesignARTS 1010 - Drawing I
ARTS 2710 - Art History I
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
Physical Education3 hours
B. Major Field Courses ..... 54 hours
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 5750U - Contemporary Art and Criticism
ARTS 5500U* - 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 ..... 12 hours
CEUG 4110* - Student Teaching P-12
CEUG 4630* - Classroom Management P-12*Must be admitted into teacher education to enroll in these courses
Total Semester Hours129 hoursD. Regents' Test, Orientation to Teaching or equivalent, Admission to Teacher Educa-tion including Praxis I, Education Teaching Portfolio, Admission to StudentTeaching, Current Certification in CPR/First Aid, Senior Art Show, Senior ArtGallery Talk, Praxis II Exit Exam.
PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN THEATRE
A. General Requirements
Core Areas A, B, C, D, and E ..... 42 hours
Area $\mathbf{F}$ 18 hours
THEA 2270 ( 3 semesters) - Theatre Lab
COMM 2280 - Speech Communication
One course selected from:
THEA 1100 - Theatre Appreciation
THEA 1200 - Introduction to Theatre
THEA 2410 - Oral Interpretation
One course selected from:
MUSC 1110 - Basic Music Theory
ARTS 1020-Two-Dimensional Design
ARTS 1030 - Three-Dimensional Design
ENGL 2100 - Literature and Humanities
Two course sequence in a foreign language beyond 1001
Physical Education ..... 3 hours
B. Major Field Courses ..... 45 hours
THEA 3000 - Introduction to Acting
THEA 3040-Stagecraft
THEA 3440 - History of Theatre
THEA 3460 - Play Directing
THEA 3470 - Makeup Design
HEA 3600 - Script Analysis
Track One: Literature and Criticism
15 hours selected from:
THEA 3450 - History of Theatre II
THEA 3650 - Theatre Criticism
THEA 3700 - Scene Design, or THEA 3750 - Light Design
ENGL 3010 - Introduction to Literature
ENGL 5450U - Shakespeare I, or ENGL 5460U - Shakespeare II
9 hours selected from:
Upper division theatre courses.
Related Field Courses: 6 hours selected from:
COMM 3360 - Critical Approaches to Mass Culture
ENGL 5450U - Shakespeare I
ENGL 5560U - British Drama I
ENGL 5570U - British Drama II
ENGL 5650U - British, American, \& Continental Drama
ENGL 5660U - Ancient Epic and Drama
SPAN 4090 - Spanish American Theatre
THEA 3400 - History of Film
THEA 3490-Television Theory and Criticism
THEA 3500 - Introduction to Film
THEA 3510 - Film and Literature
THEA 5010U - Topics in Film
THEA 5020U - Film Theory and Criticism

## Track Two: Performance Track

11 hours selected from:
THEA 3030 - Creative Dramatics
THEA 3420 - Acting
THEA 3700 - Scene Design, or THEA 3750 - Light Design
THEA 4470 - Stage Manager/Designer Lab
7-16 hours selected from:
Upper division theatre courses.
Related Field Courses: 3-12 hours selected from:
Approved ENGL, SPAN, and FILM Related Field courses noted in Tack One above
MUSC 2270 - Class Voice
MUSC 2530 or 3530 - University Singers
MUSC 2540 or 3540 - AASU Chorale
PEBC 1100 - Tumbling and Stunts
PEBC 1501 - Beginning Modern Dance
PEBC 1502 - Intermediate Modern Dance
PEBC 1551 - Basic Ballet
PEBC 1552 - Intermediate Ballet
PEBC 1580 - Jazz Dance
PEHM 3050 - Theory and Technique of Dance
Track Three: Design/Technical Track
13 hours selected from:
THEA 3450 - History of Theatre II, or THEA 3650 - Theatre Criticism
THEA 3700 - Scene Design
THEA 3750 - Light Design
THEA 4470 - Stage Manger/Design Lab (must be taken twice)
5-11 hours selected from:
Upper division theatre courses.
Related Field Courses: 6-12 hours selected from:
Approved ENGL, SPAN, and FILM Related Field courses noted in Track One above
ARTS 1010 - Drawing I
ARTS 1011 - Drawing II
ARTS 1020-Two-Dimensional Design
ARTS 1030 - Three-Dimensional Design
ARTS 2150 - Computer in Art
ARTS 2400 - Introduction to Crafts
ARTS 2710 - Art History I
ARTS 2720 - Art History II
ARTS 3130 - Drawing III
ARTS 3630 - Fabric Design
ARTS 3710 - Sculpture Materials
C. Free Electives ............................................................................................................ 12 hours

## Total Semester Hours

123 hours
D. Regents' Test and Exit Exam

## BIOLOGY

## Faculty

Kenneth Relyea, Department Head
Judy Awong-Taylor
Charles Belin
Ronald Beumer
Alexander Collier
Kathryn Craven
Donald Emmeluth
Rebecca Green

## 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 graduate with departmental honors.

To qualify for this honor, students must have at the time of application: 80-100 semester hours of course work; a minimum college grade point average of 3.3; a minimum biology grade point average of 3.5 with no grade lower than C; and three or more 3000-4000 level courses completed.

The committee will consist of three biology faculty members, and may also include a biologist from outside the university. The committee will examine student proposals before projects are undertaken and will evaluate the completed projects.

Certificates. The Department of Biology participates in offering an interdisciplinary certificate in forensic science. See details under "Special Programs" in this catalog.

## 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), the Medical College Admissions Test (MCAT), or the PRAXIS II test 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
Area F .
18 hours
BIOL 1107 - Principles of Biology I
BIOL 1108 - Principles of Biology II
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)
Physical Education 3 hours
B. Major Field Courses 47 hours
BIOL 2010-Microbiology (If used to satisfy areaF, 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 3020 - Zoology
BIOL 3700 - Genetics
BIOL 4200 - Vertebrate Physiology
BIOL 4700 - Ecology
BIOL 4800 - Seminar
Total of 18 credit hours from categories 1-3, with at least one 3 credit hour course chosen from each of categories 1 and 2.
Category 1: Cell/Molecular/Physiology
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

## Category 2: Botany

BIOL 3150 - Horticulture
BIOL 3200 - Flowering Plants
BIOL 3230 - Anatomy of Seed Plants
BIOL 4150 - Plant Physiology
BIOL 4450 - Morphology of Vascular Plants
Category 3: OtherBIOL 3300 - Entomology
BIOL 3310 - Invertebrate ZoologyBIOL 3400 - Human PhysiologyBIOL 3410 - NutritionBIOL 3580 - Histological TechniqueBIOL 3750 - Natural History of VertebratesBIOL 3770 - Developmental and Comparative Anatomy of VertebratesBIOL 3870 - Animal HistologyBIOL 3920 - ParasitologyBIOL 4010 - EvolutionBIOL 4210 - Comparative PhysiologyBIOL 4220 - EndocrinologyBIOL 4320 - Environmental MicrobiologyBIOL 4550 - Marine Organisms
BIOL 4565 - Physiological Ecology
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
$\qquad$ 4-12 hours
CHEM 2101/2101L - Organic Chemistry I
Up to 8 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
$\qquad$ 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

(Requirements for teacher certification in addition to those listed below are found in the College of Education section under Policies and Procedures and Other Requirements.)
Students will follow the same program as noted for the biology major with the following exceptions:
The student takes only 9 credit hours from categories 1-3 under major electives.
The following education courses are required:
EEXE 5100U/G - Educating Students with Disabilities
MGSE 2000 - The Professional Educator
MGSE 2150 - Adolescent Growth and Development
MGSE 3050 - Secondary Curriculum and Methods, General
MGSE 4090 - Classroom Management
MGSE 4500 - Science Curriculum and Methods
MGSE 4750 - Student Teaching and Seminar - 9 hours
Total Semester Hours
132 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

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

Area $F$

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 ................................
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 coursesas 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

## E. Regents' Test and Exit Exam

## CHEMISTRY AND PHYSICS

## Faculty

Todd Hizer, Interim Department Head
Sabitra Brush
James Byrd
Suzanne Carpenter
Leon Jaynes
Tom Jones
Robert Kolodny

Will Lynch
Catherine MacGowan
Donna Mullenax
Delana Nivens
Richard Wallace
William Zipperer

## Accreditation

The chemistry program is approved by the American Chemical Society (ACS), Committee on Professional Training (CPT), 1155 16th St., NW, Washington, DC 20036, telephone 202-8724600.

## 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, physical sciences, and applied physics.

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 interested in pre-medicine, pre-pharmacy, pre-veterinary medicine, or pre-dentistry programs.

## Special Programs

American Chemical Society Certified Degree. Students majoring in Chemistry may concurrently complete all requirements outlined by the American Chemical Society to receive a B.S. in Chemistry Certified by the Society. See details under Program for the Degree Bachelor of Science in Chemistry with ACS certification in this catalog.

Pre-Medical/Pre-Dental/Pre-Pharmacy/Pre-Veterinary. Students majoring in chemistry may concurrently complete all pre-medical, pre-dental, pre-pharmacy, and pre-veterinary requirements.

Honors in Chemistry. A student may graduate with Honors in Chemistry by completing three credit hours in CHEM 4991 approved by the department's honors committee, maintaining an overall grade point average of 3.5 in all chemistry courses applying to the major, and completing all requirements of the Honors program.

Certificates. The Department of Chemistry and Physics participates in offering an interdisciplinary certificate in forensic science. See details under "Special Programs" in this catalog.

## 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

Chemistry ..... 15 hoursSix semester hours of lower division chemistry coursesNine semester hours of upper division chemistry courses15 hours
Six semester hours of lower division physics coursesNine semester hours of upper division physics courses
Physical Sciences15 hours
Six semester hours in chemistry, physical science, or physics
Nine semester hours selected from: ASTR 3000, GEOL 3100, METR 3100, OCEA 3100
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY
A. General Requirements
Core Areas A, B, C, D, and E42 hours
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in CoreArea D
Area $F$18 hours
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 andPHYS 1112/1112L - Introductory Physics II orPHYS 2211/2211L - Principles of Physics I andPHYS 2212/2212L - Principles of Physics II
One hour excess for MATH 1161 from Core Area D
One hour lower division approved electivePhysical Education.3 hours
B. Major Field Courses ..... 38 hours
CHEM 2101/2101L - Organic Chemistry I
CHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical Analysis
CHEM 3200/3200L - Inorganic Chemistry
CHEM 3300 - Instrumental Analysis
CHEM 3401 - Physical Chemistry I
CHEM 3402 - Physical Chemistry II
CHEM 4500 - Chemistry Seminar
Two courses from:
CHEM 3801 - Biochemistry I
CHEM 4100 - Advanced Organic Chemistry
CHEM 4200 - Advanced Inorganic Chemistry
CHEM 4300 - Advanced Instrumental Analysis
Two credit hours from:
CHEM 2700, 3801, 3802, 3900, 4100, 4200, 4300, 4940, 4950, 4960, or 4991/2/3/4
C. Electives ..... 22 hours15 hours of upper-division courses from within College of Arts and Sciences7 hours of free electives
Total Semester Hours
Proper course selection will allow the student to pursue any one of the following degree options.

## Pre-professional/Biochemistry Option:


Upper-division courses from chemistry or other subjects within the College of Arts and Sciences ( 15 semester hours)

## Pre-Graduate Study Option:

Note: PHYS 2211/2211L and PHYS 2212/2212L is the recommended physics sequence.
C. Related Field Courses .......................................................................................... 13 hours
MATH 2072 - Calculus II (one hour counted in Area F) and
MATH 2083 - Calculus III and
PHYS 3801/3801L - Optics and Modern Physics as requirements
D. Electives
12 hours
Upper-division courses from chemistry or other subjects within the College of Arts and Sciences

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINCHEMISTRY WITHAMERICANCHEMICALSOCIETY CERTIFICATION

A. General Requirements

Core Areas A, B, C, D, and E
42 hours
Chemistry majors are required to take MATH 1113 in core area A and MATH 1161 in core area D
Area $F$. 18 hours
CHEM 1211/1211L, 1212/1212L - Principles of Chemistry I, II (unless taken to satisfy area D, in which case replace with 8 hours of lower division electives)
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 (or A)
One hour excess from MATH 2072
Physical Education ..................................................................................................... 3 hours
B. Major Field Courses .................................................................................................. 44 hours

CHEM 2101/2101L - Organic Chemistry I
CHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical Analysis
CHEM 2700 - Descriptive Chemistry
CHEM 3200 - Inorganic Chemistry
CHEM 3300 - Instrumental Analysis
CHEM 3401 - Physical Chemistry I
CHEM 3402 - Physical Chemistry II
CHEM 3801 - Biochemistry I
CHEM 4500 - Chemistry Seminar
CHEM 4991 - Advanced Chemical Research (3 hours)
Two courses from:
CHEM 4100 - Advanced Organic Chemistry CHEM 4200 - Advanced Inorganic Chemistry
CHEM 4300 - Advanced Instrumental Analysis
C. Related Field Course 7 hours
MATH 2072 (1 hour in area F)
MATH 2083
D. Electives 9 hours
9 hours of upper-division electives
Total Semester Hours123 hours
E. Regents' Test and Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY WITH TEACHER CERTIFICATION
A. General Requirements
Core Areas A, B, C, D, and E ..... 42 hours
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D

Area $\mathbf{F}$
18 hours
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 andPHYS 1112/1112L - Introductory Physics II orPHYS 2211/2211L - Principles of Physics I andPHYS 2212/2212L - Principles of Physics II
One hour excess for MATH 1161 from Core Area D
One hour of MGSE 2000
Physical Education3 hours
B. Major Field Courses ..... 38 hoursCHEM 2101/2101L - Organic Chemistry ICHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical AnalysisCHEM 3200/3200L - Inorganic ChemistryCHEM 3300 - Instrumental AnalysisCHEM 3401 - Physical Chemistry ICHEM 3402 - Physical Chemistry IICHEM 3801 - Biochemistry I
CHEM 4500 - Chemistry Seminar
One course from:
CHEM 4100 - Advanced Organic Chemistry
CHEM 4200 - Advanced Inorganic Chemistry
CHEM 4300 - Advanced Instrumental Analysis
Two credit hours from:
CHEM 2700, 3801, 3802, 3900, 4100, 4200, 4300, 4940, 4950, 4960, or 4991/2/3/4
C. Teacher Education Courses ..... 26 hours
EEXE 5100 - Educating Students with DisabilitiesMGSE 2000 - The Professional Educator (one hour applied to core area F)MGSE 2150 - Adolescent Growth and DevelopmentMGSE 3050 - Secondary Curriculum and Methods, General
MGSE 4090 - Classroom Management
MGSE 4500 - Science Curriculum and Methods
MGSE 4750 - Student Teaching and Seminar - 9 hours
Total Semester HoursE. Regents' Test and Exit Exam

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED PHYSICS

A. General Requirements42 hoursApplied physics majors are required to take MATH 1113 in core area A and MATH 1161 incore area D
Area $F$ 18 hoursPHYS 2211/2211L, 2212/ 2212L - Principles of Physics I, II (unless taken to satisfy corearea D , in which case replace with 8 hours of lower division electives)
MATH 2072 - Calculus II
MATH 2083 - Calculus III
One hour excess for MATH 1161 from Core Area D
One hour excess for CSCI 1301 from Related Field Courses3 hours
B. Major Field Courses 24 hours
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 3312 - Electromagnetism
PHYS 3500 - Diffraction and Crystallography
PHYS 4900 - Independent Study in Physics
PHYS 4950 - Special Topics in Physics
PHYS 4960 - Physics Internship
C. Related Field Courses ..... 29 hours
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 2201 - Introduction to Mechanics
MATH 2160 - Linear Algebra
MATH 3411 - Differential Equations
A three semester-hour upper-division math course (3000 or 4000 level, excluding
MATH 3411), approved by the physics faculty.
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

# CRIMINAL JUSTICE, SOCIAL AND POLITICAL SCIENCE 

## Faculty

Zaphon Wilson, Department Head
Katherine Bennett, Graduate Coordinator
William Daugherty
Beck Kohler da Cruz
Jose da Cruz
Michael Donahue
Don Josi
John Kearnes

William Megathlin<br>Dennis Murphy<br>Edward Rinalducci<br>Daniel Skidmore-Hess<br>Edward Thompson, III

## General Information

Leadership in Public Service: The Department of Criminal Justice, Social and Political Science (www.cjsocpols.armstrong.edu) offers associate of applied science and bachelor and master of science degree programs in criminal justice, and a bachelor of arts in political science, with the opportunity for teacher certification. Internships and practica, designed to foster leadership skills within public service, are available in all programs beyond the associate of applied science. Students considering graduate school in political science should take the foreign language option and continue their linguistic study beyond the first intermediate course.

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 conceptuallybased so that students will develop the theoretical sophistication to understand and manage the practical realities of the field. Instructional effectiveness, public service, and scholarly activity are inseparable components of this curricular integrity. The department encourages original research by both faculty and students, and supports community service through such vehicles as the university's Public Service Center.

## Special Programs

The criminal justice B.S. program is also offered at the Liberty Center in Liberty County and the Brunswick Center at Coastal Georgia Community College. In addition, the department offers several of its courses at high schools in Effingham County.

## Progress Requirements

All department majors must earn a C or better in all courses taken in their discipline and are required to take an exit examination (the Major Field Test for their respective field) prior to graduation. All courses in the minor also require a C or better.

## Minors

Criminal Justice
18 hoursCRJU 1100, CRJU 2020, CRJU 3150, CRJU 3170, CRJU 5300U, CRJU 5500U.
Legal Studies ..... 18 hours
POLS 3180, CRJU/POLS 5500U, and any four of the following:POLS 3160, POLS 3170, POLS 3290, POLS 4150, PUBL/POLS 4180, CRJU/POLS5520U, CRJU 4500, or CRJU 4510
Transnational Crime
Political Science 15 hours
Fifteen hours of 3000+ level course work, with at least one course from each of the four areasof concentration:
American Political Institutions: POLS 3160, POLS 3170, POLS 3180, POLS 4100, POLS 4110, POLS 4120, POLS 4150
International Affairs: POLS 3210, POLS 3260, POLS 4200, POLS 4280, POLS 4290, POLS 5130U
Political Theory: POLS 3300, POLS 3310, POLS 3320, POLS 3330, POLS 4300
Comparative Government: POLS 3420, POLS 3450, POLS 3460, POLS 3480, POLS 3490, POLS 4400, POLS 4520

## Sociology

15 hours
SOCI 1101 and 12 credit hours of upper division sociology course work.

## PROGRAM FOR THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE IN

 CRIMINAL JUSTICEA. General Requirements: Core Areas ..... 28 hours
ENGL 1101 - Composition I
ENGL 1102 - Composition II
MATH 1111 - College Algebra
HIST/POLS 1101 - Political History of America and Georgia
PSYC 1101 - Introduction to Psychology
SOCI 1101 - Introductory Sociology
One course from the following:
HIST 1111, HIST 1112, HIST 2111, HIST 2112, POLS 2100, ANTH 1102, ECON 2105
One course from the following:
ENGL 2100, ARTS 1100, ARTS 2710, ARTS 2720, THEA 1100, MUSC 1200, PHIL 2201, PHIl 2251

One course from the following:
BIOL 1107/1107L, CHEM 1111/1111L, PHYS 1111,1111L, PHSC 1211,1211L
Physical Education ..... 2 hours
B. Major Field Courses ..... 30 hours
CRJU 1100 - Introduction to Criminal Justice
CRJU 1130 - Interpersonal Communication Skills
CRJU 2020 - Ethical Theories and Moral Issues in Criminal Justice
CRJU 2210 - Introduction to Law Enforcement
CRJU 2410 - Introduction to Corrections
CRJU 3150 - Criminology
CRJU 3500 - Criminal Evidence and Procedure
CRJU 5300U - Juvenile Delinquency
CRJU Electives
Total Semester Hours ..... 123 hours
C. Regents' Test and Exit Examinations
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CRIMINAL JUSTICE
A. General Requirements
Core Areas A, B, C, D, and E ..... 42 hours
Area F ..... 18 hours
CRJU 1100 - Introduction to Criminal JusticeCRJU 1130 - Interpersonal Communication SkillsCRJU 2020 - Ethical Theories and Moral Issues in Criminal Justice
CRJU 2210 - Introduction to Law Enforcement
CRJU 2410 - Introduction to Corrections
MATH 2200 - Elementary Statistics
Physical Education3 hours
B. Major Field Courses ..... 33 hours
CRJU 3100 - Research MethodsCRJU 3150 - CriminologyCRJU 3170 - Criminal Justice Administration
CRJU 3500 - Criminal Evidence and Procedure
*CRJU 4800 - Internship (twelve credit hours)
CRJU 5300U - Juvenile Delinquency
CRJU 5500U - Law and Legal Process
Capstone course (one course selected from):
CRJU 4900 - Directed Research in Criminal Justice
CRJU 4910 - Seminar in Criminal Justice
*Students for whom this course is inappropriate may petition to substitute 12
advisor-approved upper division credits appropriate to the Major.
C. Related Field Courses 6 hours
POLS 2100 - Introduction to Political Science
One course selected from:
SOCI 1101 - Introductory Sociology
PSYC 1101 - Introduction to Psychology
D. Approved electives ..... 6 hours
6 hours of approved electives at the $3000+$ level
E. Free Electives ..... 15 hours
Total Semester Hours ..... 123 hours
F. Regents' Test and Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs
PROGRAMFORTHEDEGREEOFBACHELOROFARTSINPOLITICAL SCIENCEA. General Requirements
Core Areas A, B, C, D, and E 42 hours
Area F 18 hours
MATH 2200 - Elementary Statistics
POLS 2100 - Introduction to Political Science
Two of the following:
POLS 1150 - World Politics
POLS 1200 - Ethics in Government
POLS 2290 - Foundations of International Relations
Six hours of a foreign language sequence numbered 1002 or above or six hours ofcomputer science
Physical Education ..... 3 hours
B. Major Field Courses ..... 36 hours
Eleven courses from the following with at least one course from each area:
American Political Institutions
POLS 3160-Judicial Politics and Strategies
POLS 3170 - Constitutional Law and the Federal System
POLS 3180 - Constitutional Civil Liberties
POLS 3990 - Special Topics in Political Science
POLS 4010 - Politics of Budgetary Process
POLS 4100 - Independent Study in American Government
POLS 4110 - American Presidency
POLS 4150 - American Supreme Court
POLS 4160 - American Congress
POLS 4180 - Administrative Law
CRJU/POLS 5500U - Law and Legal Process
CRJU 3100 - Research Methods
Political TheoryPOLS 3300 - Political Philosophy: Ancient and MedievalPOLS 3310 - Modern Political PhilosophyPOLS 3320 - American Political ThoughtPOLS 3330 - Contemporary Political Thought
International Relations
POLS 3260 - International Law
POLS 3290 - Constitutional Law of Foreign Policy
POLS 3990 - Special Topics
POLS 4200 - Independent Study in International Relations
POLS 4280 - Theory of International Relations
POLS 4290 - American Foreign Policy
POLS 5280U - Seminar in Global Politics
CRJU/POLS 5130U - Political Terrorism
Comparative Politics
POLS 3430 - Governments of Africa
POLS 3460 - Government of East Asia
POLS 3470 - Governments of the European Union
POLS 3490 - Political Transformation of the Former Soviet Union
POLS 4400 - Independent Study in Comparative Government
CRJU/POLS 5520U - Comparative Judicial Systems
Capstone course: POLS 4950-Political Research Methods
C. Electives 24 hours
Including a minimum of 15 hours of upper division courses
Total Semester Hours ..... 123 hours
D. Regents' Exam and Exit Exam: Area Concentration Achievement Test in Political Sci- ence
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
MATH 2200 - Elementary Statistics (if taken in area D, substitute a history or approved social science course)
MGSE 2000 - The Professional Educator
POLS 2100 - Introduction to Political Science
One of the following:
POLS 1150 - World Politics
POLS 1200 - Ethics in Government
POLS 2290 - Foundations of International Relations
Foreign language $1002 \& 2001$ or six hours of computer science
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
PUBL/POLS 4010 - Politics of Budgetary Process
PUBL/POLS 4030 - Public Policy Development
POLS 4100 - Independent Study in American Government

POLS 4110 - American Presidency
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 3430 - Governments of Africa
POLS 3460 - Government of East Asia
POLS 3480 - Governments of the European Union
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
C. Related Field Courses .

18 hours
One course selected from:
ANTH 1102 - Introduction to Anthropology
ECON 2106 - Microeconomics
GEOG 2120 - Cultural Geography
HIST 1111 - Civilization I
HIST 1112-Civilization II
PHIL 2201 - Introduction to Philosophy
SOCI 1101 - Introductory Sociology
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
Two approved upper division courses from one of three social science fields
Two upper division history courses
D. Teacher Certification Courses . 30 hours
EEXE 5100U - Educating Students with Disabilities
MGSE 2150 - Adolescent Growth and Development
MGSE 3050 - Curriculum and Methods
MGSE 3200 - Middle School Theory and Practice II
MGSE 4090 - Classroom Management
MGSE 4400 - Curriculum and Methods, Social Studies
MGSE 4750 - Student Teaching and Seminar ( 12 semester hours)
Total Semester Hours
132 hours
E. Regents' Test and Exit Exam

## ECONOMICS

## Faculty

Yassaman Saadatmand, Department Head
Richard Cebula, Shirley and Philip Solomons Eminent Scholar
Richard McGrath
Michael Toma
Andrew Weinbach

## General Information

The Department of Economics offers the bachelor of arts degree, as well as a minor in economics. Grounded in the liberal arts tradition, which provides an intellectually diverse educational experience, the degree requires a foundation in economic theory along with a choice of applied courses from several different fields of economics. The applied fields include quantitative methods, financial markets, international economics, economic development, managerial economics, labor economics, and regional economics. Depending on their selection of field courses, graduates are prepared to assume positions in business or government, or pursue professional or post-graduate degrees in business, finance, economics, political science or law. Internships, departmental assistantships and scholarships are available.

## Special Programs

An honors program in economics is available.
The Department of Economics offers a certificate program in financial economics. This program offers students the opportunity to obtain a broad understanding of various aspects of financial economics, ranging from capital markets and financial institutions to foreign exchange markets.

The Certificate in Financial Economics can be earned in one of two tracks. First, it can be taken in tandem with a formal undergraduate degree. The second option is the professional track, designed for non-degree students with a professional or occupational interest in financial economics. Individuals are eligible for this track upon presentation of proof of a valid undergraduate degree from an accredited institution. In either case, students should meet with an advisor in order to declare their interest in the certificate program and to plan their course of study.

Under either track, the certificate will be awarded upon successful completion of all of the following courses with a grade of C or better in each.

ECON 2105 - Principles of Macroeconomics ................................................................... 3 hrs
ECON 3300 - Money and Banking .................................................................................. 3 hrs
ECON 4100 - Financial Economics: Portfolio Analysis ................................................... 3 hrs
ECON 4150 - Money and Capital Markets ...................................................................... 3 hrs
ECON 4310 - International Financial Institutions ............................................................ 3 hrs
One additional course at the 3000 level or above as approved by the Head of the Economics Department. .3 hrs
Undergraduate students following the first track are also required to finish with a cumulative GPA of 2.75 or above. An official certificate and an official notation on the transcript will be awarded upon satisfactory fulfillment of these requirements.

## Progress Requirements

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

## Minors

Economics ....................................................................................................................... 15 hours
ECON 2105 or 2106
Twelve credit hours selected from: ECON 3050, 3060, 3100, 3200, 3300, 3400, 3450, $3500,3600,3630,3700,4100,4150,4310,4400,4410,4460,4500,4550$, 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 $\mathbf{F}$ ..... 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
Six credit hours from one of the following areas:
Accounting
ACCT 2101 - Principles of Financial Accounting
ACCT 2102 - Principles of Managerial Accounting
Foreign language sequence (1002 and 2001)
Mathematics
MATH 2072 - Calculus II
MATH 2083-Calculus III
Computer Science
CSCI 1301 - Introduction to Programming Principles
CSCI 1302 - Advanced Programming Principles
Physical Education ..... 3 hours
B. Major Field Courses ..... 33 hours
ECON 3050 - Intermediate Macroeconomics
ECON 3060 - Intermediate Microeconomics
ECON 4900 - Economic Methods and Senior Thesis
Twenty four credit hours drawn 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
Quantitative
ECON 3600 - Mathematical Economics
ECON 3700 - Econometrics
Applied
ECON 3400 - Economics of Labor
ECON 3420 - Sports Economics
ECON 3500 - Managerial Economics
ECON 4100 - Financial Economics
ECON 4450 - Industrial Organization
ECON 4460 - Economic Analysis of the Law
Financial
ECON 3300 - Money and Banking
ECON 4100 - Financial Economics: Portfolio Evaluation
ECON 4150 - Money and Capital Markets
Public Policy and Economic History
ECON 3450 - Environmental Economics
ECON 3630 - Economic History in the US
ECON 4410 - Regional Economics
ECON 4500 - Public Finance
ECON 4550 - Public Choice
Internships and Specialized Courses
ECON 4520, -30, -40 - Internship (with permission of department head)(maximum of oneinternship may count toward degree)
ECON 4010, -20, -30 - Special Topics (with permission of department head)

# C. Related Field Courses 9 hours <br> CSCI 1050 - Introduction to Computer Concepts or CSCI 1060 - Computer Concepts and Applications <br> Two upper division courses (3000+) from the following: anthropology, economics, geography, mathematics, philosophy, political science, psychology, or sociology <br> D. Electives 18 hours <br> <br> Total Semester Hours <br> <br> Total Semester Hours <br> <br> E. Regents' Test and Exit Exam 

 <br> <br> E. Regents' Test and Exit Exam}

## HISTORY

## Faculty

Michael Price, Department Head Christopher Hendricks, Graduate Coordinator

Catherine Adams
Olavi Arens
Carol Ebel
Barbara Fertig
Mark Finlay
Michael Hall
June Hopkins
Thomas Howard

John David Leaver
Yuxin Ma
Howard Robinson
Janet Stone
James Todesca
Nancy White
Learotha Williams

## General Information

The Department of History offers the degree of bachelor of arts with a major in history, or a major in history with 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 3500 (Foundations), 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. A grade of C or better is also required in Foreign Language 1002 and 2001. All minors also require a C or better in each course.

## Minors

European Union Studies ........................................................................................................ 18 hours
EURO 2000
EURO 2000
POLS 3470
Nine hours from the following:
BIOL 3100, ECON 3200, 3300, 4310, HIST 3330, 3360, 3490, 3990, 4920, 5480U, 5500U, POLS3480
Capstone seminar
Consult history department for further requirements.
History .......................................................................................................................... 15 hours
Fifteen hours of 3000 , 4000 , or 5000 U level history courses
International Studies .................................................................................................... 15 hours
Consult history and/or criminal justice, social and political science departments for program of study.
Public History
15 hours
HIST 4500
HIST 3991 or HIST 3992
Nine hours from the following:
HIST 3800, 3820, 5810U, 5830U, 5850U, 5750U

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

```
A. General Requirements
    Core Areas A, B, C, D, and E ........................................................................... }42\mathrm{ 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 (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 (Grade of C or better required.)
    One course selected from:
        MATH 1113-Pre-calculus
        MATH 1161-Calculus
        MATH 2200 - Elementary Statistics
        MATH 2900 - Spirit and Structure of Math
        CSCI 1150 - Fundamentals of the Internet and World Wide Web
        (If a math or computer science course is taken to satisfy area D, a humanities or
        social sciences course may be substituted.)
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Physical Education
B. Major Field Courses 33 hours
HIST 3500 - Foundations of Historical Studies
HIST 4500 - Historical Methods
One course from:
HIST 4900 - Non-Western History SeminarHIST 4910 - Russian History SeminarHIST 4920 - European History SeminarHIST 4930 - American History Seminar
One course from:
HIST 4960 - American Historiography
HIST 4970 - European Historiography
One public history course ( 3000 or above)
Six other history courses at the 3000 level or above
Portfolio requirement
C. Related Field Courses ..... 12 hoursTwelve semester hours chosen from the social sciences and/or the humanities at the2000 level or above, excluding history.
D. Electives ..... 15 hours
Total Semester Hours ..... 123 hours
E. Regents' Test and Major Field 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 corearea B or E , substitute an approved global perspectives course.)
HIST 2111 - History of America to 1877 or HIST 2112 - History of America since 1865 (Iftaken to satisfy core area E, substitute a social science course at the 1000 or 2000 level.)
Foreign Language 1002 - Elementary Language II (Grade of C or better required.)
Foreign Language 2001 - Intermediate Language I (Grade of C or better required.)
MATH 2200 - Elementary Statistics (If taken to satisfy core area D, substitute a secondAmerican history survey or an approved social science course).
MGSE 2000 - The Professional Educator
Physical Education ..... 3 hours
B. Major Field Courses ..... 27 hours
HIST 3500 - Foundations of Historical Studies
HIST 4500 - Historical Methods
One course from:
HIST 4960 - American HistoriographyHIST 4970 - European Historiography
Two approved American history courses
Two approved European history courses
Two approved non-western history courses
One seminar must be included in major
Portfolio requirement
C. Related Field Courses ..... 12 hours
Two approved geography courses
Two approved courses from one of three social science fields
D. Teacher Certification Courses ..... 30 hoursEEXE 5100U - Educating Students with DisabilitiesMGSE 2150 - Adolescent Growth and Development

MGSE 3050 - Curriculum and Methods
MGSE 3200 - Middle School Theory and Practice II
MGSE 4090 - Classroom Management
MGSE 4492 - Secondary School Curriculum and Methods, Social Science
MGSE 4750 - Student Teaching and Seminar ( 12 semester hours)
Total Semester Hours
132 hours
D. Regents' Test, PRAXIS II Exam, and Major Field Exit Exam

## LANGUAGES, LITERATURE, AND PHILOSOPHY

## Faculty

Erik Nordenhaug, Interim Department Head Carol Andrews
Christopher Baker
Elizabeth Barron
Ellen Blossman
Ozzie Cannon
Frank Clancy
Thomas Cooksey
William Deaver
Karen Hollinger
Elizabeth Howells
Carol Jamison

William Martin<br>Richard Nordquist<br>Deborah Reese<br>Nancy Remler<br>Edwin Richardson<br>James Smith<br>Ana Torres<br>Dabney Townsend<br>Joseph Weaver<br>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, communication, writing, 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. Students must earn a grade of C or better in ENGL 1101 to qualify for admission to ENGL 1102. ENGL 1101, 1102, and 2100 courses may not be dropped without permission of the department head. Students who drop these courses without department head approval will receive failing grades in the class.

Exemptions from Core English. Students who wish credit exemption for ENGL 1101 must pass the CLEP Freshman College Composition (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 2100 H 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.

## Special Program

Honors. A student may graduate with honors in English by completing a project pursuing a special interest within the discipline. The student will choose a full-time faculty member to direct the project, and he or she must submit a proposal and the finished project for approval to an adhoc committee of three full-time faculty members, including the supervising professor. This project may be submitted as the original research project required in ENGL 5990U - Senior Capstone Seminar. To be eligible to apply for honors, the student must have completed at least 15 semester hours of upper-division English courses with a GPA of 3.5 in the major or the permission of the department. The student must submit his or her proposal by mid-term of the semester prior to enrollment in the capstone seminar. After the project is completed, the student will make an oral presentation to the committee and interested members of the department, the Honors Program, and the campus community. Upon approval for honors by the committee, the student's transcript will be designated "Honors in English". The project meets the "Honors in the Major" component for students in the University Honors Program.

## Progress Requirements

Students must earn a grade of C or better in each upper-level course included in any major or minor area. A minor must contain 15 to 18 semester hours of course work with at least 9 hours of upper division course work. Courses taken to satisfy core areas A through E may not be counted as course work in the minor.

Students majoring in English are strongly encouraged to take their survey courses (ENGL $2121,2122,2131,2132$ ) early. Survey courses, along with ENGL 3010, should be the main constituent of the first eighteen hours taken in the major. To remain a major in good standing in the program requires a GPA of 2.25 in major courses. After the completion of eighteen hours of major level courses, this average in the field must be maintained. Normally a student would be given one semester to raise his or her average to 2.25 in order to remain in the program.

## Minors

[^1]Foreign Languages ..... 15-18 hoursMust include 9 hours of language electives numbered 3000 or aboveMust include ENGL 3010 and at least 12 hours of LING electives
Philosophy15-18 hoursMust include 9 hours of philosophy electives numbered 3000 or above
Writing15 hours
Must include 15 hours from the following: ENGL 3020, ENGL 3720,ENGL 4700, ENGL 4740, ENGL 4750, ENGL 5740, ENGL 5750, ENGL 5760,JOUR 3270, JOUR 3430
PROGRAMFORTHEDEGREEOFBACHELOROFARTSINENGLISH
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)
Two courses (three if ENGL 2100 is taken in area C) selected from:
ENGL 2121 - British Literature I
ENGL 2122 - British Literature II
ENGL 2131 - American Literature I ENGL 2132 - American Literature II
Foreign Language 1002 - Elementary Language II
Foreign Language 2001 - Intermediate Language I
Foreign Language 2002 - Intermediate Language II
3 hours
B. Major Field Courses ..... 36 hours
ENGL 3010 - Introduction to Literary Studies
ENGL 5455U - Shakespeare
ENGL 5990U - Capstone Seminar
Three courses selected from:
ENGL 5325U - 19th Century American Poetry and Prose
ENGL 5335U - 20th Century American Poetry and Prose
ENGL 5440U - Early English Literature
ENGL 5445U - Chaucer
ENGL 5480U - Literature of the English Renaissance
ENGL 5485U - Milton
ENGL 5500U - 18th Century British Poetry and Prose
ENGL 5525U - 19th Century British Poetry and Prose
ENGL 5535U - 20th Century British Poetry and Prose
Two courses selected from:
ENGL 5415U - The Novel
ENGL 5425U - American/British Poetry
ENGL 5435U - Topics in Drama
FILM 3400 - Film History
or
FILM 3500 - Introduction to Film
Two courses selected from:
ENGL 5000U - Special Topic
ENGL 5215U - Literature of the Non-Western World
ENGL 5225U - Literature of the Western World
ENGL 5340U - Literature by Women
ENGL 5350U - African American Literature
ENGL 5380U - Southern Literature
ENGL 5550U - Contemporary Literature
ENGL 5610U - Major Author
FILM 5010U - Topics in Film or
FILM 5510U - Film and Literature
One course selected from:
ENGL 3020 - Introduction to Composition Studies
ENGL 3720 - Business and Technical Communication
ENGL 4700 - Advanced Composition
ENGL 4740 - Creative Writing (Poetry)
or
ENGL 4750 - Creative Writing (Fiction)
One course selected from:
ENGL 5025U - Critical Approaches to Film, Television, and Popular Culture
ENGL 5730U - Rhetoric
ENGL 5800U - Advanced Grammar
ENGL 5815U - Literary Theory
ENGL 5820U - History of the English Language
C. Related Field Courses (must include 9 hours numbered 3000 or above) ........... 15 hours
D. Electives 9 hours

## Total Semester 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 (if taken in area C, substitute one course from ENGL 2121, 2122, 2131, 2132)
Foreign Language 1002 - Elementary Language II
Foreign Language 2001 - Intermediate Language I
Foreign Language 2002 - Intermediate Language II
MGSE 2000 - The Professional Educator
MGSE 2150 - Adolescent Growth and Development
Physical Education 3 hours
B. Major Field Courses .................................................................................................. 36 hours
Two courses (one British, one American) selected from (if one is taken in Area F, substitute one approved upper division major field course):
ENGL 2121 - British Literature I
ENGL 2122 - British Literature II
ENGL 2131 - American Literature I
ENGL 2132 - American Literature II
ENGL 3010 - Introduction to Literary Studies
ENGL 3020 - Introduction to Composition Studies
ENGL 5215U - Literature of the Non-Western World
ENGL 5455U - Shakespeare
One film course numbered 3000 or above
One course selected from:
ENGL 5800U - Advanced Grammar
ENGL 5820U - History of the English Language
Three courses selected from (all courses cannot be exclusively British or American): ENGL 5315U - 17th and 18th Century American Poetry and Prose
ENGL 5325U - 19th Century American Poetry and Prose

ENGL 5335U - 20th Century American Poetry and Prose
ENGL 5440U - Early English Literature
ENGL 5445U - Chaucer
ENGL 5480U - Literature of the English Renaissance
ENGL 5485U - Milton
ENGL 5500U - 18th Century British Poetry and Prose
ENGL 5525U - 19th Century British Poetry and Prose
ENGL 5535U - 20th Century British Poetry and Prose
ENGL 5610U - Major Author
One course selected from:
ENGL 5340U - Literature by Women
ENGL 5350U - African American Literature
ENGL 5380U - Southern Literature
C. Teacher Education Courses .................................................................................... 33 hours
EEXE 5100U - Educating Students with Disabilities
MGSE 2180 - Literature for Young Adults
MGSE 3050 - Curriculum and Methods
MGSE 3200 - Middle School Theory and Practice
MGSE 4090 - Classroom Management
MGSE 4280 - Teaching and Evaluating Literacy
MGSE 4392 - Secondary Curriculum and Methods, English
MGSE 4750 - Student Teaching and Seminar (12 semester hours)

Total Semester Hours 132 hours
E. Regents' Test and Exit Exam

## PROGRAMFORTHEDEGREEOFBACHELOROFARTSINENGLISH

 (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)
Two courses (three if ENGL 2100 is taken in area C) selected from:
ENGL 2121 - British Literature I
ENGL 2122 - British Literature II
ENGL 2131-American Literature I
ENGL 2132 - American Literature II
Foreign Language 1002 - Elementary Language II
Foreign Language 2001 - Intermediate Language I
Foreign Language 2002 - Intermediate Language II
Physical Education .................................................................................................... 3 hours
B. Major Field Courses .................................................................................................. 36 hours

ENGL 3700 - Introduction to Communications
ENGL 3720 - Business and Technical Communication
ENGL 5730U - Rhetoric
JOUR 3430 - Journalistic Writing and Editing
One course selected from:
ENGL 5740U - Technical Editing
ENGL 5750U - Publication Design
One course selected from:
THEA/COMM 3800 - Introduction to Video Production
JOUR 3270 - Journalism Lab (requires completion of three one-credit courses)

One course selected from:
COMM 3060 - Public Relations
ENGL 4700 - Advanced Composition
JOUR 4000 - Topics in Journalism
One course selected from:
ENGL 4740 - Creative Writing (Poetry)
ENGL 4750 - Creative Writing (Fiction)
One FILM course
Choice of two upper division courses from ENGL, COMM, or FILM
ENGL 4990 - Internship or
ENGL 5990U - Capstone Course
C. Related Field Courses ............................................................................................. 15 hours
Courses numbered 3000 or above within the College of Arts and Sciences
D. Elective Hours .......................................................................................................... 9 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

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)
Six semester hours of electives at the 1000-2000 level
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 - 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 GenreSPAN 4020 - Special Author
SPAN 4030 - Special TopicsSPAN 4040 - Spanish PhoneticsSPAN 4900 - Independent StudySPAN 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 E42 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 - Introduction to Students with Disabilities
Physical Education3 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 fromeach category. SPAN 4040 must be chosen. A minimum of one other course must be at the4000 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: <br> SPAN 4010 - Special Genre <br> SPAN 4020 - Special Author <br> SPAN 4030 - Special Topics <br> SPAN 4900 - Independent Study <br> SPAN 4990 - Language Internship

C. Related Field Courses ....................

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)

Total Semester Hours
123 hours
E. Regents' Test and Exit Exam

## MATHEMATICS

## Faculty

Lorrie Hoffman, Department Head
Jane Barnard
Dale Kilhefner
Jim Brawner
Mark Budden
Paul Hadavas
Sabrina Hessinger
Selwyn Hollis

Tim McMillan

Susan Ouzts
Manuel Jackson Sanders
Carolyn Smith
Ed Wheeler

## 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, 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 all mathematics and computer science courses required in the program of study with a grade of C or better. In order to complete the prerequisites for a mathematics course other than MATH 2200 or MATH 2900, the prerequisite courses must be completed with a grade of C or better.

## Minors

Mathematics ................................................................................................................. 17 hours
MATH 2072 - Calculus II
MATH 2083 - Calculus III
Nine additional semester hours chosen from MATH 2160 and mathematics courses numbered
3000 or higher (excluding MATH 3201, 3911, 3912, 3932, 5911U 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 3201, 3911, 3912, 3932, 4960, 4970, 4980, and 5911U
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 3201,
3911, 3912, 3932, 4960, 4970, 4980, and 5911U
C. Related Field Courses ............................................................................................. 25 hours
CSCI 1302 - Advanced Programming Principles
Complete the prescribed courses in one of the following concentration areas.
Actuarial science:
ECON 2105 or ECON 2106
MATH 3222, 3251, 3460, or 4200
Two courses selected from:
ECON 3050, 3060, 3300, 3500, 3600, or 3700
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 - Probability and Mathematical Statistics II
MATH 3251 - Probability and Combinatorics
MATH 3460 - Introduction to Operations Research
MATH 3480 - Optimization and Graph Theory
MATH 4610 - Numerical Analysis
MATH 4400 - Operations Research Seminar
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
3201, 3911, 3912, 4960, 4970, 4980, and 5911U
C. Related Field Courses........................................................................................ 33 hours
CSCI 1301 - Introduction to Programming Principles I
EEXE 5100U - Educating Students with Disabilities
MGSE 2000 - The Professional Educator
MGSE 2150 - Adolescent Growth and Development
MGSE 3050 - Secondary School Curriculum and Methods, General
MGSE 4412 - Secondary School Curriculum and Methods, Mathematics
MGSE 4090 - Classroom Management
MGSE 4750 - Student Teaching and Seminar (9 semester hours)
D. Electives .............................................................................................................. 9-11 hours
D. Electives 9-11 hours
Total Semester Hours 123 hours

## PSYCHOLOGY

## Faculty

Jane Wong, Department Head
Keith Douglass
John Kraft
Jonathan Roberts

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 seminar courses.

## Special Programs

An honors section of PSYC 1101 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

Candidates for the bachelor of arts in psychology must earn a grade of C or better in all courses required in the program, including courses used to complete Area F in the core, and Related Field Courses. All minors also require a C or better in all courses required for the minor.

## Minors

## Psychology

15 hours
PSYC 1101 - Introduction to Psychology
Twelve semester hours of upper division course work
Mental Health 18 hours
PSYC 1101, 3020, 3060, 3150, 3160, 3280,
Organizational Psychology 18 hours PSYC 1101, 3020, 3060, 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 - Introduction to Psychology (if taken in Area E, replace with another Area E, section 3 course)

PSYC 2200 - Introduction to Psychological Research
ANTH 1102 - Introduction to Anthropology (if taken in Area E, replace with another Area E, section 3 course)
BIOL 1107 - Principles of Biology I (if taken in Area D, replace with BIOL 2081)
BIOL 1108 - Survey of the Animal Kingdom (if taken in Area D, replace with BIOL 2081 or BIOL 2082)
Physical Education ...................................................................................................... 3 hours
B. Major Field Courses ............................................................................................... 30 hours

PSYC 3010 - Junior Seminar
PSYC 3090 - Physiological Psychology
PSYC 4000 - Measurement
PSYC 4080 - Learning and Motivation
PSYC 4100 - History and Systems of Psychology
One course from:
PSYC 3070 - Perception
PSYC 3190 - Animal Behavior
PSYC 3500 - Cognitive Psychology
One course from:
PSYC 3020 - Psychological Testing
PSYC 3150 - Conflict Resolution
PSYC 3200 - Industrial/Organizational Psychology
PSYC 3210 - Psychology of Work Behavior
One course from:
PSYC 3060 - Behavior Modification
PSYC 3110 - Theories of Personality
PSYC 3160 - Clinical Psychology
PSYC 3280 - Abnormal Psychology
Two courses from
PSYC 3030 - Experimental Social Psychology
PSYC 3050 - Topics in Development
PSYC 3100 - Human Sexuality
PSYC 3750 - Psychology of Aging

C. Related Field Courses
18 hours

MATH 2220 - Elementary Statistics
CSCI 1050 - Introduction to Computer Concepts and Applications
Two course sequence of foreign language
Two courses (3000+) from the following:
psychology, sociology, anthropology, or economics

## D. Electives

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

## 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 hoursPSYC 1101 - General Psychology (if taken in Area E, replace with another Area E, section3 course)
PSYC 2200 - Introduction to Psychological ResearchANTH 1102 - Introduction to Anthropology (if taken in Area E, replace with another Area E,section 3 course)
BIOL 1107 - Principles of Biology I (if taken in Area D, replace with BIOL 2081)
BIOL 1108 - Survey of the Animal Kingdom (if taken in Area D, replace with BIOL 2081 orBIOL 2082)
Physical Education ..... 3 hours
B. Major Field Courses ..... 27 hours
PSYC 3010 - Junior SeminarPSYC 3030 - Experimental Social PsychologyPSYC 3060 - Behavior ModificationPSYC 3090 - Physiological Psychology
PSYC 3280 - Abnormal Psychology
PSYC 4000 - Measurement
PSYC 4080 - Learning and Motivation
PSYC 4100 - History and Systems of Psychology
One course from:
PSYC 2950 - Developmental Psychology
CEUG 1010 - Human Growth and Development
C. Related Field Courses ..... 12 hoursCSCI 1050 - Introduction to Computer Concepts and Applications
MATH 2220 - Elementary Statistics
Two course sequence of Spanish
D. Professional Sequence21 hoursCEUG 2100 - Introduction to Students with DisabilitiesSPED 3500 - Characteristics of Behavioral DisordersSPED 3510 - Methods for Teaching Students with Behavioral DisordersSPED 4003 - Teaching Reading to Students with Disabilities
SPED 4009 - Student Teaching P-12 (six semester hours)CEUG 5010U - Education Tests and Measurements or PSYC 3020 - Psychological Testing
Total Semester Hours

# School of Computing 

Raymond Greenlaw, Dean<br>Stephen Jodis, Assistant Dean

The School of Computing was formed at Armstrong Atlantic in February of 2002. The school is located in Science Hall. Exceptional faculty and facilities provide students with outstanding learning and research opportunities. Additional information about the School of Computing can be found at www.computing.armstrong.edu.

## Accreditation

The Bachelor of Science in Computer Science is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012, telephone: 410-347-7700.

## Philosophy and Goals

There are three programs in the School of Computing: Computer Science (including a Master of Science in Computer Science), Engineering Studies, and Information Technology.

The philosophy of all our programs is to provide an outstanding education for our students and to maintain high academic standards along the way.

The goals of the Department of Computer Science are to help students to develop an understanding of the algorithmic approach to problem solving, and to provide students with knowledge of the mathematical and logical foundations of computer science, logical data structures and their representation, basic computer organizations and architectures, and programming techniques in a variety of paradigms.

The goals of the Master of Science in Computer Science are as follows: to provide a graduate degree in computer science that is accessible to active industry professionals and others who wish to further their computer science education; to leverage Armstrong Atlantic's outstanding faculty and program in computer science to meet the critical regional requirement for recruiting and retaining the best people at the forefront of this fast-paced field; to build upon and strengthen existing partnerships between GTREP, Yamacraw, and local industries; and to train and develop future staff members to work in and teach in our programs, and those of other Georgia institutions.

The goals of the Engineering Studies Program are to provide students with a solid freshman and sophomore engineering curriculum and to help students transfer into the Georgia Tech Regional Engineering Program (GTREP), the Regent's Engineering Transfer Program (RETP), or another engineering program of their choice. The program emphasizes the fundamentals of engineering.

The goals of the Department of Information Technology are to prepare students for a career in a computer-related field, to help students develop a systematic approach to problem solving, and to provide students with knowledge of programming, computer systems and their administration, e-commerce, data communication, and client/server systems. The program focuses on computer applications and the uses of computers.

The goals for our programs are accomplished by providing students with excellent classroom instruction and educational opportunities such as weekly colloquium and programming team activities. Students completing the undergraduate curriculums will be prepared to enter graduate school in computer science or a cognate field, and will be prepared for employment in business or industry in the wide variety of positions in which knowledge of computer science or information technology is required. Students completing a master's degree will be prepared for doctoral study at another institution or to enter the computing field in industry.

## Organization and Degrees

The School of Computing includes the Department of Computer Science, the Department of Information Technology, and the Engineering Studies Program. The School of Computing offers the following degrees:

Bachelor of Information Technology
Bachelor of Science in Computer Science
Master of Science in Computer Science

## Minors and Certificates

Departments in the School of Computing offer minors and certificates. Students may include one or more of these in their programs as circumstances permit. Requirements for specific minors are listed in the section for each program. 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 while certificates are not.

## Special Programs

Students receive a Yamacraw Certificate for completing two of the following courses: CSCI 4990 - Distributed Systems
CSCI 5220U - Networks
CSCI 5520U - Rapid Java Development Applications
CSCI 5322U - Advanced Software Engineering
CSCI 5360U - Embedded Systems Programming
CSCI 5370U - Handheld and Ubiquitous Computing
CSCI 6300 - Software Development Process
CSCI 7100 - Parallel and Distributed Systems
CSCI 7200 - Real-Time System Concepts and Implementations
CSCI 7300 - Networks
CSCI 7500 - Mobile Computing
CSCI 7700 - Computer Security
Two certificates are available for students in Information Technology. The Level I certificate (the Certificate of Information Technology with Applications) is 12 credit hours. The Level II certificate (the Certificate of Information Technology with Programming) is 19 credit hours.

## Policies and Procedures

The description of any special policies and procedures is included with each specific department. The most current information available about the School of Computing may be found on the Web at www.computing.armstrong.edu.

## COMPUTERSCIENCE

## Faculty

Charles Shipley, Department Head
Mark Burge
Sergio DeAgostino
Paul Goransson
Ray Greenlaw
Stephen Jodis

Daniel Liang

Paulius Micikevicius
Hongjun Su Ray
Tyler-Hashemi
Hong Zhang

## Accreditation

The Bachelor of Science in Computer Science degree is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012, telephone: 410-347-7700.

## General Information

Computer scientists are involved with all facets of the design, implementation, and application of computers. They are concerned with problem solving in general, with particular emphasis on developing efficient solutions to problems. This requires a detailed knowledge of the nature of algorithms, the software implementation techniques necessary to use these algorithms on computers, and an understanding of how algorithms may be combined in a systematic manner to produce highly complex software systems.

The program leads to a bachelor of science in computer science, and is designed to prepare students for employment in a wide range of computer-related jobs in a rapidly changing field, or for 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-five students to allow for individual instruction.

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 program provides students with an education emphasizing the fundamentals.

## Special Programs

Students are able to compete for cooperative education positions and internships at Savannah's high-tech employers such as GO Software, Gulfstream, VeriSign, and the Skidaway Institute of Oceanography. Such positions provide students invaluable opportunities to acquire practical experience to complement classroom work. Students receive credit for participation in such programs.

The department offers a Master of Science in Computer Science that second semester seniors may apply to for limited admission status. See the Armstrong Atlantic Graduate Catalog for more information on this program.

## Special Requirements

While computer science deals 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 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 computer science and mathematics 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

## Computer Science <br> CSCI 1301, CSCI 1302, and nine semester hours from any 3000-5000 level computer science courses, excluding CSCI 3990, and internships. (A grade of C or better is required in each course used towards a minor.) <br> PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINCOMPUTER SCIENCE

 16 hours
## A. General Requirements

Core Areas A, B, C, D, E 42 hours
Computer science majors are required to take MATH 1113 in core area A and MATH 1161 in core area D.
Area F ...................................................................................................................... 18 hours
One semester hour excess for MATH 1161 from core area D
CSCI 1301 - Introduction to Programming Principles
CSCI 1302 - Advanced Programming Principles
CSCI 2410 - Data Structures and Algorithms
CSCI 2620 - Discrete Structures for Computer Science
MATH 2072 - Calculus II
Physical Education ..................................................................................................... 3 hours
B. Major Field Courses .............................................................................................. 39 hours

CSCI 2070 - Ethical Considerations in Computer Science
CSCI 2490 - Object-Oriented Programming in C++
CSCI 3201 - Computer Organization and Architecture I
CSCI 3202 - Computer Organization and Architecture II
CSCI 3321 - Introduction to Software Engineering Concepts
CSCI 3330 - Comparative Languages
CSCI 3341 - Introduction to Operating Systems
CSCI 3510 - Theory of Computation
CSCI 3720 - Database Systems
Two courses in one of the following tracks:

## Software Track

CSCI 5220U - Networks
CSCI 5322U - Advanced Software Engineering
CSCI 5520U - Rapid Java Application Development
Systems Track
CSCI 5220U - Networks
CSCI 5342U - Advanced Operating Systems
CSCI 5343U - Systems Programming Under UNIX
Six additional semester hours from 4000 and 5000 level computer science courses.
C. Related Field Courses ..... 15-23 hoursENGL 3720 - Business and Technical CommunicationMATH 3211 - Probability and Mathematical Statistics IOne of the following:
MATH 2160 - Linear Algebra
MATH 3222 - Probability and Mathematical Statistics II
MATH 3411 - Differential Equations
MATH 3460 - Mathematical Modeling and Optimization
MATH 3480 - Optimization and Graph Theory
CSCI 5610U - Numerical Analysis (If used here, may not also be counted as majorfield course.)
One of the following CAC approved science sequences (unless taken to meet core area D):
BIOL 1107 and 1108 - Biology I, II (and labs)
CHEM 1211/1211L and 1212/1212L - Principles of Chemistry I, II (and labs)
PHYS 2211/2211L and 2212/2212L - Principles of Physics I, II (and labs)
At least six additional semester hours from BIOL 1107, BIOL 1108, CHEM 1211, CHEM 1212,PHYS 2211, PHYS 2212, or any science or engineering course having BIOL 1108, CHEM1212, or PHYS 2212 as a prerequisite.
D. Free Electives ..... 0-4 hours
Total Semester Hours

## E. Regents' Test and Exit Exam

## INFORMATIONTECHNOLOGY

## Faculty

Joylyn Reed, Department Head

Azita Bahrami
Lei He
Frank Katz
Kam Fui Lau

Daniel Lipsa
Lucretia Parham
Vinita Sharma
Lei Zhu

## General Information

Information Technology (IT) professionals are involved with many facets of computer applications. Typical jobs are centered on effective utilization of organizational resources, including hardware, software, and people, and may involve training and trouble-shooting.

The IT program leads to a Bachelor of Information Technology degree and is designed to prepare students for employment in a wide range of computer-related jobs. IT courses focus on practical aspects of design, deployment, integration, and maintenance of computer systems. Most courses require significant use of computers. Class size is typically less than 30, which allows for individual instruction.

The School of Computing provides many advanced courses for students to supplement their knowledge. Committed to excellence in both teaching and research, the Department of Information Technology provides students with an education emphasizing fundamentals and practical applications.

## Special Programs

Two levels of Information Technology Certificates are offered by Armstrong Atlantic. These certificates are designed to meet the needs of a wide range of students and employers. The Level 1 (Information Technology with Applications) certificate is an introductory information technology program with a focus on applications. The Level 2 certificate (Information Technology with Programming) includes Level 1 courses plus two additional programming courses.
Level 1 - Information Technology with Applications ..... 12 hoursCSCI 1050 - Computer Concepts and Applicationsor
CSCI 1060 - Computer Concepts and Applications for Science StudentsCSCI 1150 - Fundamentals of the Internet and World Wide WebITEC 1300 - Fundamentals of Information TechnologyITEC 1310 - Programming in Visual Basic
Level 2 - Information Technology with Programming ..... 19 hours
CSCI 1050 or CSCI 1060, CSCI 1150, ITEC 1300, ITEC 1310CSCI 1301 - Introduction to Programming PrinciplesCSCI 1302 - Advanced Programming Principles

## Progress Requirements

To earn a Bachelors in Information Technology, students must complete all information technology, computer science, and mathematics courses required in the program of study with a grade of C or better. To enroll in any information technology course, students must earn a grade of C or better in each prerequisite course.

## Minors

Information Technology ..... 18 hours
CSCI 1302, ITEC 1300, and ITEC 1310, plus nine semester hours from any 3000-4000 level information technology courses. (A grade of C or better is required in each course used towards a minor.)
PROGRAMFORTHEDEGREEOFBACHELOROFINFORMATION TECHNOLOGY
A. General Requirements
Core Areas A, B, C, D, E 42 hours
Area $F$ ..... 18 hours
CSCI 1050 - Computer Concepts and Applications ..... or
CSCI 1060 - Computer Concepts and Applications for Science Students
CSCI 1150 - Fundamentals of the Internet and World Wide Web
CSCI 1301 - Introduction to Programming Principles
ITEC 1300 - Fundamentals of Information Technology ITEC 1310 - Programming in Visual Basic
ITEC 2530 - Operating Systems
Physical Education ..... 3 hours
B. Major Field Courses ..... 34 hours
One semester hour excess for CSCI 1301 from core area F CSCI 1302 - Advanced Programming Principles
CSCI 2070 - Ethical Considerations in Computer Science
ITEC 3600 - Systems Analysis and Design
ITEC 3610 - Network Administration
ITEC 4390 - Senior Project (6 hours)
ITEC 4720 - Applied Data Communications
ITEC 4740 - Database Administratio
ITEC 4830 - Graphics Design
C. Related Field Courses ..... 12-19 hours
ECON 2030/2040 - Principles of Accounting I/II ..... or
ECON 2105/2106 - Principles of Macroeconomics/Microeconomics
ENGL 3720 - Business and Technical Communication
MATH 1111 - College Algebra (if not taken in core area A)
One of the following.
MATH 1161 - Calculus I
MATH 1950 - Applied Math for Non-Science Majors MATH 2200 - Elementary Statistics
7-14 hours
Total Semester Hours ..... 123 hours
E. Regents' Test and Exit Exam
BACHELOR OF SCIENCE IN THE GEORGIA WEB INFORMATION TECHNOLOGY DEGREEPROGRAMREQUIREMENTS
A. General Requirements
Core Areas A, B, C, D, E ..... 42 hours
All Bachelor of Science in Information Technology Core Curriculum requirements are shown in the suggested degree program.
WBIT 1100 - Introduction to Information Technology
WBIT 1310 - Programming and Problem Solving
WBIT 2311 - Programming and Problem Solving II
WBIT 2300 - Discrete Math for Information Technology
WBIT 2000 - The Enterprise and Information Technology
B. Upper Division Major Requirements ..... 42 hours
WBIT 3111 - Information Technology Project Management
WBIT 3110 - Systems Analysis and Design
WBIT 3510 - Data Communications and Networking
WBIT 3010 - Technical Communication
WBIT 3200 - Database Design, Development and Deployment
WBIT 4520 - Information Security
WBIT 3500 - Architecture and Operating Systems
WBIT 3410 - Web Application Development
WBIT 4020 - Professional Practice and Ethics
WBIT 4112 - Systems Acquisition, Integration and Implementation
WBIT 3400 - Introduction to Multimedia
WBIT 4030 - Senior Project \& Portfolio
C. Major Concentration ..... 9 hours
Select all 9 hours from the following area: E-Commerce Concentration
WBIT - 4601 Customer Relationship Managaement
WBIT - 4610 E-Commerce Policy and Law
D. Free Electives ..... 9 hours

## ENGINEERING STUDIES

Thomas Murphy, Coordinator
Cameron Coates
Henry Harris
Wayne Johnson
Priya Thamburaj

## General Information

The Armstrong Atlantic Engineering Transfer Program. This program offers course work contained in the first two years of the standard 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 term 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.

Georgia Tech Regional Engineering Program (GTREP). The Georgia Institute of Technology, in cooperation with Armstrong Atlantic is offering all requirements to complete baccalaureate programs in civil engineering, computer engineering, mechanical engineering, and electrical engineering. GTREP students take the first two years of course work in the Armstrong Atlantic Engineering Transfer Program, and then upon meeting admissions criteria become Georgia Tech students on the Armstrong campus for their remaining two years. Georgia Tech professors who reside in southeast Georgia or in Atlanta teach GTREP students during the junior and senior years. GTREP results in a Georgia Tech diploma while the student remains at Armstrong Atlantic.

## Minors

Engineering Studies 15 hours
ENGR 3100, ENGR 3220, and PHYS 3120, plus six semester hours of lower division engineering courses.

# College of Education 

Jane H. McHaney, Dean<br>Pamela Harwood and Michael Lariscy, Interim Co-Assistant Deans

The College of Education implemented many of the Georgia Board of Regents Principles for the Preparation of Educators for the Schools during the 1999-2000 academic year. These new standards became effective fall semester 2000. Since this implementation process affects programs of study in each department, it is extremely important to see an advisor to determine how these changes will affect your program of study.

## Accreditation

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

## Philosophy and Goals

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

## Organization and Degrees

The College of Education includes the departments of Early Childhood Education; Health and Physical Education; Middle Grades, Secondary, and Adult 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
Special Education: Cross-Categorical
Master of Education in:
Adult Education
Early Childhood 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)
The Bachelor of Science in Education in Business Education is offered in the College of Education in conjunction with Savannah State University.

The Master of Education in Business Education is offered in the College of Education in conjunction with Georgia Southern University.

## Special Programs

Post-Baccalaureate Teacher Preparation Program. The Post-Baccalaureate 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 post-baccalaureate program include an earned baccalaureate degree or advanced degree from an accredited college or university. Students may be admitted to the post-baccalaureate program with less than an overall cumulative grade point average of 2.5 if (1) they completed their degree three or more years before admission to the program or (2) completed their degree one or more years before admission to the program and participated in a quality long-term service commitment in an educational environment. All students admitted to the program must establish and maintain a 2.5 grade point average for all post-baccalaureate course work which applies to their teacher education license. In planning programs of study, transcripts for post-baccalaureate students will be reviewed to determine the status of credit and proficiency in content areas. In addition, students participating in the post-baccalaureate program must apply for admission to the college of education at the end of the first semester of enrollment.

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 - Introduction to Students with Disabilities, must pass a competency examination in order to receive credit. The competency examination can be arranged through the office of professional laboratory experiences. Post-baccalaureate students must meet program and course prerequisites. Please see the appropriate department head for additional information.

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 (CGCC) through the Brunswick Center. The program allows students who earn their associate degree from CGCC 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 and selected secondary majors, 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 these programs should contact the head of the Department of Middle, Secondary and Adult 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, Secondary, and Adult Education, or Special Education. Students are responsible for obtaining advisement. Although 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 the College of Education. Students wishing to pursue teacher education leading to certification must apply for admission to the College of Education. Application booklets are available in the departmental offices.

Students seeking admission to the College of Education must meet the standards described in the College of Education Admissions 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 general criteria apply to the teacher education programs in the Departments of Early Childhood Education, Middle Grades, Secondary, and Adult Education, Health and Physical Education, and Special Education. Each program may have additional discipline-related requirements which are required for admission. Refer to the department sections at the end of the general criteria.

## General Admission Requirements:

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-College Algebra or MATH 1101Mathematical Modeling
4. Satisfactory completion of the Regents' Test. Students already holding baccalaureate degrees from an accredited institution are exempt from the Regents' Test.
5. Indication of desirable attitude, character, and teaching potential.
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 approved ten hours of volunteer service in an educational setting.
9. Notarized consent form for criminal background check.
10. Signed student teaching fee notification form.

In addition to the criteria above, the following criteria are required for the indicated department or program of study.

Department of Early Childhood Education

1. Satisfactory completion of MATH 1111-College Algebra or MATH 1101-Mathematical Modeling with a C or better.
2. Completion of core area F courses with a C or better.

Department of Health and Physical Education

1. Completion of PEHM 2900 or equivalent with a C or better.
2. Three hours of physical education courses with a grade of B or better.

Department of Middle Grades and Secondary Education

1. Satisfactory completion of MATH 1111-College Algebra or MATH 1101-Mathematical Modeling with a C or better.
2. Completion of core area F courses with a C or better.

Department of Special Education
Speech and Language Pathology Program

1. Speech, language and hearing screening
2. Completion of SLPA 1220, SLPA 2230, and SLPA 2250 with a grade of C or better in each course, AND an overall GPA of 3.0 in these courses
3. A positive endorsement from a speech-language pathology faculty member based on established SLP professional conduct standards
4. An earned cumulative GPA of 2.5

Special education: cross-categorical program

1. An earned cumulative GPA of 2.7
2. Completion of SPED 2001, SPED 2002, and SPED 3001 or better in each course AND an overall GPA of 3.0 in these courses
3. Speech, language and hearing screening
*Praxis I: All students (undergraduate and post-baccaluareate) applying for admission to the College of Education during and since winter quarter 1998 must pass all three sections of the Praxis I or receive a passing composite score before being admitted, even if they previously passed the written screening for admission to teacher education before winter quarter 1998.

Field Experiences. Many courses in the College of Education require students to participate in field experiences (practicums). To enroll in these courses students must provide proof of liability insurance coverage and undergo a background check. Information about these requirements is provided in each class.

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 the College of Education.
3. Satisfactory completion of all related field experiences including the pre-planning practicum. Post-baccalaureate students are exempt from the pre-planning/post-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.
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.
7. Valid certification in infant, 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, middle grades and secondary education, art education, music education, and Spanish education).
9. Ten hours of professional development.
10. Successful completion of Praxis II for certification area.
11. Payment of $\$ 250.00$ student teaching fee (required of students admitted to the teacher education program after August 20, 1998).
12. An up-to-date program of study signed by the student's faculty advisor.
13. Criminal background check.

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 the College of 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 post-baccalaureate course work attempted at AASU which applies to their teacher education license.
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 I and PRAXIS II in order to receive a provisional certificate.
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 infant, child, and adult CPR to be current throughout the internship period.
12. Completion of an approved pre-service portfolio (required of early childhood, middle grades, and secondary education students).
13. Payment of $\$ 250.00$ internship fee (required of students admitted to the teacher education program after August 20, 1998).
14. An up-to-date program of study signed by the student's faculty advisor.
15. Criminal background check.

Program Completion. Students must complete the university's approved program for certification within four years following admission to the College of Education. 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 all three sections of PRAXIS I and 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.

Background Check. Students enrolling in education courses are required to undergo a criminal background check.

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.

Post-Planning Practicum. Middle grades and secondary education students are required to complete a post-planning practicum which provides an opportunity for future teachers to learn what teachers do at the end of a 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.

Post-planning practicums are scheduled at the end of the public shcool term during the students' junior years. Post-baccalaureate students are exempt from this practicum.

Applications should be made during the first week of the spring semester for post-planning practicums for the next May. Students should contact the office of professional laboratory experiences for further information.

Field Experience. Early childhood education, middle grades and secondary education and postbaccalaureate students are required to complete 900 hours of field experience.

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 CHILDHOODEDUCATION

## Faculty

Maryellen Cosgrove, Department Head

Stephen Agyekum
Patricia Ball
Bettye Anne Battiste
Patricia Brandt
Evelyn Dandy
Margaret Walworth

John Hobe
Wendy Marshall
Marsha Moore
Patricia Norris-Parsons
Joan Schwartz
Irene Welch-Mooney

## 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. A major and a minor 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: a basic information skills courses and specialized skills courses designed to help students in specific subject areas develop research skills; and 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

Early Childhood Education. A student choosing to minor in Early Childhood Education is required to complete the following courses with grades of C or better in each: CEUG 1010, ECUG 2000, ECUG 3040, ECUG 3050, ECUG 3060

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

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINEARLY CHILDHOODEDUCATION

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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 - Introduction to Students with Disabilities
ECUG 2020-Environmental, Social, and Health Issues of the Young Child
COMM 2280 - Speech Communication
MATH 2900-Spirit and Structure of Math
GEOG 1100 - World Regional Geography
    or
GEOG 2120 - Cultural Geography
    or
GEOL/GEOG 2010 - Introduction to Physical Geology
Physical Education
3 hours
B. Major Field Courses ..................................................................................... 45 hours
    ECUG 3040-Childhood and Adolescence
    ECUG 3050 - Curriculum and Methods P-5
    ECUG 3060 - Language and Cognition
    ECUG 3071 - Literature and Language Arts*
    ECUG 3072 - Teaching of Reading*
    ECUG 3100 - Contemporary Social Issues of the Family*
    ECUG 3110-Pre-Kindergarten Practicum*
    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**
    ECUG 4300 - Diagnosing and Prescribing for Reading Problems**
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*Must be admitted into teacher education to enroll in these courses.
**Must also be admitted into student teaching to enroll in these courses.
C. Related Field Courses* 15 hours
MATH 3911 - Algorithms and Number Systems: A Laboratory Approach*
MATH 3912 - Geometry and Data Analysis: A Laboratory Approach*
MATH 5911U - Topics in Mathematics for Educators*
PEEC 3200 - Health and Physical Education for the Elementary School Teacher* ARTS 3200 - Art and the Child* ..... or
MUSC 3200 - Music for the Elementary Teacher*
Total Semester Hours ..... 123 hours
D. Regents' Test, Praxis I and II, Admission to the College of Education, Education Teaching Portfolio, Admission to Student Teaching, Current Certification in CPR/ First Aid, Criminal Background Check.
PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINEDUCATIONIN ARTEDUCATION
A. General Requirements (Core Areas A, B, C, D, and E) ..... 42 hours
Area $F$ ..... 18 hoursARTS 1020-2D DesignARTS 1030-3D DesignARTS 1010 - Drawing I
ARTS 2710 - Art History I
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
Physical Education ..... 3 hours
B. Major Field Courses ..... 54 hoursARTS 1011 - Drawing IIARTS 2720 - Art History IIARTS 2011 - Painting IARTS 2012 - Painting IIARTS 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 5750U - Contemporary Art and Criticism
ARTS 5500U - 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: drawingand painting, sculpture, ceramics, crafts, or photography.
C. Related Field Courses* ..... 12 hoursCEUG 4110** - Student Teaching P-12CEUG 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
D. Regents' Test, Orientation to Teaching or equivalent, Admission to the College of 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)

A. Major Field Courses 18 hours
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. Related Field Courses ............................................................................................................. 3 hours
CSCI 1050 - Introduction to Computer Concepts and Applications
or
CSCI 1060 - Computer Concepts and Applications for Science Students
C. Electives
15 hours
Total Semester Hours $\mathbf{3 6}$ hours

## HEALTH AND PHYSICAL EDUCATION

## Faculty

Michael Lariscy, Department Head
Eddie Aenchbacher
Virginia Knorr
George Bedwell
Andreas Koth

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. The department provides a range of academic and service 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 should complete PEBC 2000 (Concepts of Fitness), three semester hours of physical education activity courses, or three semester hours combining activity courses with PEEC 2000 (Safety, First Aid and CPR). 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 Community Service Program. Activities designed to appeal to the community and allow access to the campus gymnasia 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, pre-planning practicum, application for student teaching, Praxis I, and education orientation or equivalent. Also, students must successfully complete all departmental requirements, including all additional major courses, proficiency tests, and Praxis II. Application for graduation must be submitted two semesters before graduation. See the College of Education section of this catalog for complete information.

## Emphasis Area

Coaching Emphasis 18 hours<br>PEAT 2100 - Prevention and Care of Sport Injuries<br>Two courses selected from: PEEC 3120, PEEC 3130, PEEC 3140, PEEC 3150<br>Two courses selected from: PEHM 3070, PEEC 3330, PEEC 3340<br>Two courses selected from: PEHM 3500, PEHM 3700, PEHM 3770, PEHM 3780, PEHM 3800, PEHM 4400

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINEDUCATIONIN HEALTHANDPHYSICALEDUCATION

A. General Requirements (Core Areas A, B, C, D, and E) ..................................... 42 hours
$\qquad$
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
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
Physical Education ..................................................................................................... 3 hours
B. Major Field Courses 58 hours
PEHM 2701 - Team Sport Techniques I
PEHM 2702 - Team Sport Techniques II
PEHM 3000-Current Health Education Issues
PEHM 3050 - Theory and Techniques of Dance
PEHM 3060 - Recreational Games
PEHM 3070 - Aquatics
PEHM 3500 - Exercise Physiology
PEHM 3700 - Individual and Dual Sports
PEHM 3770 - Health and Human Sexuality Education
or
HSCP 3770 - Health/Sexuality Education
PEHM 3780 - Substance Abuse Education
PEHM 3800 - Sport Strategies and Methods
PEHM 4200 - Assessment in Health and Physical Education Programs
PEHM 4300 - Management Skills in Health and Physical Education
PEHM 4701 - Elementary Curriculum and Methods
PEHM 4702 - Curriculum Development and Application I
PEHM 4703 - Middle/Secondary Physical Education Curriculum and Methods PEHM 4900 - Student Teaching/Seminar
$\qquad$
C. Approved Electives
3 hours
Total Semester Hours 123 hours
D. Regents' Test, Praxis I and II, Admission to the College of Education, Education Teaching Portfolio, Admission to Student Teaching, Current Certification in CPR/ First Aid, Criminal Background Check.

## MIDDLES GRADES, SECONDARY AND ADULT EDUCATION

## Faculty

Maryellen Cosgrove, Interim Department Head

Patricia Coberly
JoAnn Coleman
Ola Lewis
Brenda Logan
Chris Schuberth

Michelle Sisson<br>Edward Strauser<br>Patrick Thomas<br>Thomas Worley<br>Freya Zipperer

## General Information

The Department of Middle Grades, Secondary and Adult Education offers the degree of bachelor of science in education in middle grades education. For complete requirements for degrees leading to teacher certification at the middle and secondary levels, see "Special Programs," "Policies and Procedures," and "Other Requirements" in the College of Education section of this catalog.

## Minors

Middle Grades Education

MGSE 2000 - The Professional Educator

MGSE 2150 - Adolescent Growth and Development

MGSE 3050 - Curriculum and Methods (4-8)

EEXE 5100U - Educating Students with Disabilities

TECH 5010U - Teachers Discovering Computers

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINEDUCATIONIN MIDDLEGRADESEDUCATION

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

Core Area $\mathbf{F}$ (Grade of $\mathbf{C}$ or better required for all courses in Area $F$ ) .......... 18 hours
MGSE 2000 - The Professional Educator
MGSE 2180 - Adolescent Literature
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
Select two from the following:
MATH 2900 - Spirit and Structure of Math - mathematics concentration
GEOG 1100, or GEOG/GEOL 2010, or GEOG 2120 - social sciences concentration
Lower level English class - langauage arts concentration
Lower level science class - science concentration
Physical Education
3 hours
B. Major Field Courses* ................................................................................................ 42 hours
MGSE 2200 - Middle School Theory and Practice
MGSE 3050 - Curriculum and Methods (4-8)
MGSE 3071 - Language Arts Theory and Practice*
MGSE 3200 - Global and Multicultural Issues in Education
MGSE 4080 - Student Program and Evaluation
MGSE 4090 - Classroom Management (4-8)*
MGSE 4100 - Student Teaching and Seminar I**
MGSE 4110 - Student Teaching and Seminar II**
MGSE 4280 - Teaching and Evaluation of Literacy through Reading and Writing in the Middle Grades Content Areas*
MGSE 4400 - Curriculum and Methods, Social Sciences*
MGSE 4500 - Curriculum and Methods, Science*
Elective - Advisor approval
*Must be admitted to the College of Education to enroll in these courses.
**Must also be admitted into student teaching to enroll in these courses.
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

E. Regents' Test, Praxis I and II, Admission to the College of Education, Education Teaching Portfolio, Admission to Student Teaching, Field Experiences, Current Certification in CPR/First Aid, Criminal Background Check.

## SPECIAL EDUCATION

## Faculty

Pamela Harwood, Department Head
Joyce Bergin
J. Patrick Brennan

Donna Brooks
Beth Childress
Carl Ferguson

Nancy Herd Hepting<br>Robert Loyd<br>Mary Ann Sullivan<br>Susan White

## General Information

The Department of Special Education offers a bachelor of science degree in special education: cross-categorical ( $\mathrm{P}-12$ ) and a bachelor's degree (non-certification) in speech-language pathology. Candidates in the cross-categorical program will be eligible for the Georgia teaching certificate in interrelated special education. This degree program will become part of the College of Health Professions in July 2004.

## Special Requirements

Speech-language pathology. The speech-language pathology (SLP) course sequence begins in the fall of the sophomore year and proceeds in a sequential hierarchy of courses. The SLP requires that students pass a speech, language, and hearing screening administered by the program faculStudents must earn a C or better in the following courses with an overall GPA of 3.0 in these courses: Introduction to Communication 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. All students must complete a graduate training program in speech-language pathology to be eligible for certification and/or licensure.

Special Education: Cross-Categorical. The cross-categorical program begins in the fall of the sophomore year and proceeds in a sequential hierarchy of courses.A cumulative GPA of 2.7 is required for admission into the program. Students must earn a C or better in the following courses with an overall GPA of 3.0 in these courses: The Field of Special Education; Characteristics of Students with Disabilities; Technology for the Special Educator. Students must pass a speech, language, and hearing screening administered by the program faculty.

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINEDUCATIONIN SPEECH-LANGUAGE PATHOLOGY (this degree will behoused in the College of Health Professions after 1 July 2004)

A. General Requirements (Core Areas A, B, C, D, and E)

Core Area F 18 hours
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
PSYC 1101 - Introduction to Psychology
COMM 2280 - Speech Communication
MATH 2900 - Spirit and Structure of Math
ECUG 2020 - Environmental, Social, and Health Issues of the Young Child
Physical Education 3 hours
B. Major Field Courses .......................................................................................... 48 hours

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 .................
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, Praxis I, Admission to the College of Education, SLP Preservice Portfolio, Current Certification in CPR/First Aid, Criminal Background Check.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN SPECIAL EDUCATION:CROSS-CATEGORICAL

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

Core Area $\mathbf{F}$ 18 hours
CEUG 1010 - Human Growth and Development
CEUG 2100 - Introduction to Students with Disabilities
CEUG 2222 - Introduction to Research Design
MATH 2200 - Elementary Statistics (If taken to satisfy core area D, substitute MATH 2900 - Spirit and Structure of Mathematics)
PSYC 1101 - Introduction to Psychology (If taken to satisfy core area E, substitute GEOG 1100 or GEOG/GEOL 2010 or GEOG 2120)
SPED 2001 - The Field of Special Education: Past and Future
Physical Education
3 hours
B. Major Field Courses ..................................................................................... 57 hours

CEUG 3012 - Language Development: Ages and Stages
SPED 2002 - Characteristics of Students with Disabilities
SPED 3001 - Technology for the Special Educator
SPED 3002 - Adaptive Physical Education for Students with Disabilities
SPED 3004 - Assessment, Eligibility, and IEP Development:
Preschool and Elementary Levels
SPED 3005 - Assessment, Eligibility, and IEP Development:
Middle Grades and Secondary Levels
SPED 4000 - Instructional Strategies for Students with Intellectual Disabilities
SPED 4001 - Instructional Strategies for Students with Multiple and Severe Disabilities
SPED 4002 - Teaching Mathematics to Students with Disabilities
SPED 4003 - Teaching Reading, Spelling, and Written Expression to Students with Disabilities
SPED 4004 - Instructional Strategies in the Content Areas for Students with Learning and Behavioral Disorders
SPED 4005 - Strategies for Developing Social Skills and Behavioral Controls
SPED 4006 - Planning and Managing the Learning Environment
SPED 4007 - Directed Field-Based Research
SPED 4008 - Collaborative Procedures Fostering Inclusion and Transitions SPED 4009 - Student Teaching
C. Related Field Courses 3 hours
PSYC 3020 - Psychological Testing or
PSYC 3280 - Abnormal Psychology

## Total Semester Hours

D. Regents' Test, Praxis I and II, Admission to the College of Education, Admission to the Program, Benchmark Portfolios, Admission to Student Teaching, Current Certification in CPR/First Aid, Criminal Background Check.

# College of Health Professions 

Barry S. Eckert, Dean<br>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 in Science in Dental Hygiene
Bachelor of Health Science
Bachelor of Science in:
Dental Hygiene Education
Medical Technology
Nursing
Physical Therapy
Radiologic Sciences
Respiratory Therapy
Speech-Language Pathology
Master of Health Services Administration
Master of Public Health
Master of Science in:
Nursing
Physical Therapy
Sports Medicine
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.

## 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.

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.

## DENTALHYGIENE

## Faculty

Barbara Tanenbaum, Department Head
Laurie Bryant
Suzanne Edenfield

Kimberly Mathieu Coulton<br>Janice Mengle

## 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 in 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 in 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 curriculum requires a minimum of two academic years of full-time instruction at the collegiate level, which consists of 78 semester hours. Students attend classes, clinics, laboratories, extra-mural rotations, and seminars.

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 practica in associate degree classes, clinics, laboratories, and extra-mural facilities.

## Special Programs

Armstrong Atlantic/Coastal 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 the Brunswick 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 in 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 most qualified students by using an admission point index system. This system is based upon college grade point average, number of college credits completed, science grade point average, and certification in dental assisting or dental laboratory technology. Special emphasis is placed upon grades earned in CHEM 1010, BIOL 2081, BIOL 2082, and BIOL 2275 (or their equivalents). Penalty points are incurred for earned grades of D and F. Interviews may be required. The following are additional admission requirements:

- Eligibility for ENGL 1101 and MATH 1111
- Minimum adjusted college grade point average of 2.3
- 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 based upon equivalency of courses.

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 must be completed by the deadline date and 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 2.3 grade point average on all previous college work. Official transcripts of course work taken at other institutions must be formally requested by the student to be sent to the AASU registrar.
- 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 science courses (CHEM 1010, BIOL 2081, BIOL 2082, BIOL 2275, or their equivalents) that are prerequisite to the 2000 -level dental hygiene clinical courses. No more than two science courses may be repeated and no one course may be repeated more than once. If a student fails to earn a $C$ or better in 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.

Once readmitted, a grade of D or F in a dental hygiene course will result in dismissal and future ineligibility for further readmission to the dental hygiene program.

# PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN DENTAL HYGIENE <br> A. General Requirements 33 hours <br> ENGL 1101 - Composition I <br> ENGL 1102 - Composition II <br> MATH 1111 - College Algebra, or MATH 1101 - Mathematical Modeling <br> CHEM 1010 - Essentials of Chemistry or <br> CHEM 1151 and CHEM 1152 - Survey of Chemsitry I \& II <br> BIOL 2081 - Human Anatomy and Physiology I <br> BIOL 2082 - Human Anatomy and Physiology II <br> BIOL 2275 - Microorganisms and Disease <br> HIST/POLS 1100 - Political History of America and Georgia <br> SOCI 1101 - Introductory Sociology <br> PSYC 1101 - Introduction to Psychology <br> Physical Education 2 hours <br> B. Major Field Courses 43 hours <br> DHYG 1100 - Head and Neck Anatomy <br> DHYG 1101 - Clinical Dental Hygiene I <br> DHYG 1102 - Clinical Dental Hygiene II <br> DHYG 1110 - Dental Anatomy <br> DHYG 1120 - Dental Roentgenology <br> DHYG 1130 - General and Oral Pathology and Oral Histology <br> DHYG 1140 - Periodontics <br> DHYG 2201 - Clinical Dental Hygiene III <br> DHYG 2202 - Clinical Dental Hygiene IV and Ethical Decisions <br> DHYG 2210 - Pharmacology and Emergency Management <br> DHYG 2220 - Dental Materials <br> DHYG 2230 - Applied Nutrition <br> DHYG 2240 - Preventive Periodontics <br> DHYG 2250 - Dental Public Health 

Total Semester Hours
78 hours
C. Regents' Test and Exit Exam

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINDENTAL HYGIENEEDUCATION

A. General Requirements (Core Areas A, B, C, D.2.B., and E) ............................. 42 hours Core Area $F$ 39 hours
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.
Physical Education 3 hours
B. Major Field Courses 21 hours
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
HSCP 3720 - Ethical Theories and Moral Issues in Public Health
One course selected from:
DHED 3310 - Dental Management of Medically Compromised Patients
DHED 4410 - Advanced Periodontics
DHED 4490H - Honors Advanced Periodontics
C. Related Field Courses 18 hours
HSCA 4640 - Managed Care Concepts
PUBH 5550U - Nutrition
PSYC 3750 - Psychology of Aging
PSYC 3050 - Topics in Development
PSYC 3500 - Cognitive Psychology
One course selected from:
HSCC 3120 - Health Policy and Law
HSCA 4620 - Health Care Administration
HSCC 3140 - Epidemiology
One course selected from:
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
Total Semester Hours ..... 123 hours
D. Regents' Test and Exit Exams
HEALTHSCIENCES

## Faculty

James Streater, Department Head, Graduate Coordinator of Sports Medicine Joey Crosby, Graduate Coordinator of Health Services Administration Jacquie Fraser, Graduate Coordinator of Public Health
Alice Adams Robert Lefavi
David Adams Rod McAdams
Barry Eckert

Richard St. Pierre

## General Information

The overall mission of the Department of Health Sciences is to make available educational opportunities for persons interested in entering a health field or to provide an academic program for experienced health professionals who wish to further their career opportunities.

The curriculum emphasizes a view that health is different from illness and is designed to teach new students and practicing health professionals this difference. The curriculum permits students to earn a baccalaureate degree reflecting expertise in health science while focusing on an applied health-related area. Upon graduation, these health professionals will implement the concepts they have learned and direct the efforts of the public in the promotion, enhancement, and maintenance of health and in the prevention of health problems.

## Special Programs

Health Sciences Gerontology Certificate Program. The program provides students with a multi-disciplinary background in aging and offers an opportunity to explore aspects of aging relevant to personal interests and career goals. Students who complete the application for admission to the certificate program and return it to the Department of Health Science will be invited to meet with an assigned faculty member to discuss the proposed program of study. A minimum grade of C or better must be earned in each course for the certificate to be awarded on the undergraduate level. The gerontology certificate program consists of six courses ( 18 semester hours), and all courses listed are pre- or corequisites to GERO 5520U.

Required courses ( 9 hours):
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
GERO 5520U - Gerontology Practicum

Three courses ( 9 hours) chosen from:
PUBH 5550U - Nutrition
PSYC 5750U - Psychology of Aging
PUBH 5555U - Health and Human Performance
Approved elective course(s)

## Admission Requirements

In addition to a completed health sciences 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 a health sciences faculty member.

## 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.

All students are required to submit evidence of liability insurance and a health assessment prior to beginning their practicum.

Students must complete the degree program within six consecutive years from the date of their initial admission to the major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits calculated. Students who are granted readmission must meet course requirements in effect at the time of readmission.

Senior students must successfully complete the bachelor of health science exit exam, as well as the university's general education exit exam, during the last semester before graduation. It is recommended that all bachelor of health science students have current CPR certification at the time of graduation.

## Minor

The minor in Health Science requires eighteen (18) semester hours with a grade of C or better in each course. The student will complete the following:

HSCC 2500-Health Issues and Resources
HSCC 3120-Health Policy and Law
HSCC 3140-Epidemiology
Plus three upper level Health Science courses approved by the Head of the Health Sciences department.

## PROGRAMFORTHEDEGREEOFBACHELOROFHEALTHSCIENCE

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
HSCC 2500 - Health Issues and Resources
RESP 2110 - Medical Terminology
Two courses selected from:
MATH 2200 - Statistics*
ANTH 1102-Anthropology**
ECON 2105 - Macroeconomics**
PSYC 1101 - Introduction to 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 hoursHLPR 2000 - Research in the Health ProfessionsHSCC 3120 - Health Policy and LawHSCC 3140 - EpidemiologyHSCC 4015 - Health PlanningHSCC 4020 - Seminar in Professional IssuesPUBH 5580U - Health and Human Development
C. Related Field Courses ..... 43 hours
Student will choose one specialty track.
Track One: Health Services Administration
HSCA 3600 - Financial Management for Health-Related OrganizationsHSCP 3710 - Worksite Wellness and SafetyHSCP 3720 - Ethical Theories and Moral Issues in Public HealthHSCA 4201 - Health Care MarketingHSCA 4610 - Health Care EconomicsHSCA 4620 - Health Care AdministrationHSCA 4630 - Health Information Systems
HSCA 4640 - Managed Care Concepts
HSCA 4920 - Health Services Administration Practicum
MHSA 5500U - Managing Health Professionals
PSYC 5200U - Industrial/Organizational Psychology
PSYC 5210U - Psychology of Work Behavior
Electives (6 hours)
Track Two: Long Term Care
HSCA 3600 - Financial Management for Health-Related Organizations
HSCP 3710 - Worksite Wellness and Safety
HSCA 4201 - Health Care Marketing
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
MHSA 5650U - Seminar in Long Term Care Administration
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
PSYC 5200U - Industrial/Organizational Psychology
MHSA 5500U - Managing Health Professionals
Electives (3 hours)
Track Three: Public Health
HSCC 3760 - Environmental and Community Health Issues
HSCP 3730 - Health Promotion Theory
HSCP 3740 - Health Promotion Methods
HSCP 3750 - Topics in Public Health
HSCP 4900 - Health Science Practicum
A minimum of 26 semester hours chosen from the following:
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
HSCP 3710 - Worksite Wellness and Safety
HSCP 3720 - Ethical Theories and Moral Issues in Public Health
HSCP 3790 - Health and Fitness Management
HSCP 4000 - Independent Study in Health Sciences
HSCA 4201 - Health Care Marketing
HSCA 4620 - Health Care Administration

HSCA 4630 - Health Information Systems
HSCA 4640 - Managed Care Concepts
PEAT 2100 - Prevention and Care of Sports Injuries
PEHM 2281 - Human Structure and Function I
PEHM 2282 - Human Structure and Function II
PUBH 5550U - Nutrition
PUBH 5555U - Health and Human Performance
PUBH 5560U - Introduction to International Health
PUBH 5565U - Strategies for the Prevention of Chemical Dependency
PUBH 5570U - Women and Minority Health Issues
PUBH 5575U - Health and Sexuality
PSYC 5150U - Conflict and Stress
PSYC 5200U - Industrial/Organizational Psychology Electives (9 hours)

## Track Four: Associate Degree Nursing, Allied Health

Nineteen (19) semester hours and electives (or their equivalent) from associate degree programs in nursing or allied health course work may be used towards an emphasis area in the B.H.S. degree program. In addition to these hours, the student must complete the major core as well as twentyfour (24) hours of upper level health science courses which will be determined by the Head of the Health Science Department.
Track Five: Health and Fitness Management
PEHM 2283 - Kinesiology
PEHM 3500 - Exercise Physiology
HSCA 3600 - Financial Management for Health-Related Organizations
HSCP 4030 - Health and Fitness Management
HSCA 4201 - Health Care Marketing
HSCP 4900 - Health Science Practicum
SMED 5070U - T/M Strength and Conditioning
A minimum of 22 semester hours chosen from the following:
PEAT 2100 - Prevention \& Care of Sports Injuries
HSCC 2500 - Foundations of Physical Education
PEHM 3050 - Theory and Techniques of Dance
PEHM 3060 - Recreational Games
PEHM 3070 - Aquatics
HSCC 3120 - Health Policy and Law
HSCP 3710 - Worksite Wellness and Safety
HSCP 3720 - Ethical Theories/Moral Issues in Health
HSCP 4000 - Independent Study in Health Science
SMED 5000 - Assessment and Evaluations of Injuries I
SMED 5010 - Assessment and Evaluations of Injuries II
SMED 5060 - Physiological Foundations of Sport
SMED 5080 - Performance Evaluation and Ex Test
SMED 5090 - Nutritional Issues in Sports Medicine
PSYC 5150U - Stress Management
PSYC 5200U - Industrial/Organizational Psychology
SMED 5300 - Biomechanical Analysis of Human Mvt.
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
PUBH 5550U - Nutrition
PUBH 5555U - Health and Human Performance
PUBH 5565U - Health and Drug Education
PUBH 5575U - Health and Sexuality Education
SMED 5945 - Internship in Sports Medicine
Electives (9 hours)
Track 6: Pre-Physical Therapy
A. General Requirements ..... 42 hours
(Core Areas A (must take MATH 1113), B, C, D.2.A., and E) Core Area F ..... 18 hours
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
RESP 2110 - Medical Terminology, or MATH 1113 (if not taken in Core Area A)
Physical Education ..... 3 hours
B. Major Field Courses ..... 24 hours
HSCC 2500 - 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
PUBH 5580 - Health and Human Development
C. Professional Physical Therapy Program* ..... 36 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
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


## D. Regents' Test and Exit Exams

## MEDICAL TECHNOLOGY

## Faculty

Hassan Aziz, Interim Department Head
Lisa Anderson
Carol Elliot
Melissa Dudley

## AccreditationStatement

The degree program in medical technology is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the period 1985-2005.

## 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, and Memorial Health University Medical Center all located in Savannah; Southeast Georgia Regional Medical Center in Statesboro; Medical University of South Carolina and others as necessary. 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

## Post-Baccalaureate Certificate Program

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.

## MLT Associate Degree Career Ladder Program

The department offers a career-Ladder program model to enable certified medical laboratory technicians (MLT) to advance their education. It provides students with a high quality academic and professional environment allowing for the development of their intellectual and manipulative competencies and attainment of professional values and characteristics. The program graduate will be able to satisfy eligibility requirements to sit for and pass a professional certification examination at the "technologist" level, to qualify for employment in a variety of settings, and to progress within clinical laboratory science to education, supervision, or management position.

Each candidate should develop a professional portfolio as part of the application process. It should contain:

- Resume with complete work history (include an addendum with lab tests performed and equipment used in each area)
- Official transcripts
- Copy of MLT certification verification
- Current job description
- Letter of recommendation and support from immediate supervisor


## 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 March 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 2.4 or more
- Completion of required chemistry and biology courses prior to the senior year
- Average of 2.5 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

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.

## PROGRAMFORTHEDEGREEOFBACHELOROFSCIENCEINMEDICAL TECHNOLOGY

A. General Requirements (Core Areas A, B, C, D.2.A., and E) ..... 42 hours
Core Area F ..... 18 hoursBIOL 1107 - Principles of Biology ICHEM 1211 - Principles of Chemistry I*CHEM 1212 - Principles of Chemistry II*CHEM 2101 - Organic Chemistry IOne 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)
*If taken in area $D$, substitute elective from area $F$.
Physical Education ..... 3 hours
B. Major Field Courses ..... 52 hoursMEDT 3000 - Introduction to Medical Laboratory ScienceMEDT 3100 - Urinalysis and Body FluidsMEDT 3200 - Clinical MicrobiologyMEDT 3300 - Clinical Hematology and HemostasisMEDT 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 - Clinical Pathways \& Critical Decision Making
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

## D. Regents' Test and Exit Exam

## CURRICULUM FOR THE POST-BACCALAUREATE CERTIFICATE PROGRAM IN MEDICAL TECHNOLOGY

B. Major Field Courses ..... 52 hoursMEDT 3000 - Introduction to Medical Laboratory ScienceMEDT 3100 - Urinalysis and Body FluidsMEDT 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 - Clinical Pathways \& Critical Decision Making
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 2101 - Organic Chemistry
Total Semester Hours60 hours
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY, MLT OPTION
A. General Requirements (Core Areas A, B, C, D.2.A., and E) 42 hours
Core Area F 18 hours
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)
*If taken in area $D$, substitute elective from area $F$.
Physical Education ..... 3 hours
B. Major Field Courses ..... 44 hours
MEDT 3011 - Foundations of Medical Laboratory ScienceMEDT 3110 - Urinalysis and Body Fluids
MEDT 3210 - Clinical Microbiology
MEDT 3310 - Clinical Hematology and Hemostasis
MEDT 3410 - Clinical Immunohematology
MEDT 3510 - Clinical Chemistry
MEDT 3502 - Clinical Chemistry II
MEDT 3610 - Clinical Instrumentation
MEDT 3710 - 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 - Clinical Pathways \& Critical Decision Making
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.
D. Transfer MLT Courses
8 hours
Total Semester Hours123 hours
E. Regents' Test and Exit Exam


## NURSING

Faculty
Camille Stern, Department Head and Graduate Nursing Program Coordinator
Judith Alexander
Marilyn Buck
Marilyn O'Mallon
Eva Caldwell
Deanna Cross
Barbara Dunn
Catherine Gilbert
Marcella Hart
Carole Massey
DaNell Moore
Anita Nivens

Chris Orton<br>Catharine Powell<br>Rose Powell<br>Nancy Reilly<br>Lynn Stover<br>Helen Taggart<br>Linda Tuck

## AccreditationStatement

The program in nursing is approved by the Georgia Board of Nursing. The AASU Department of Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE). Accreditation is an indication of public approbation, attesting to the quality of the educational program and the continued commitment of the sponsoring institution to support the program. (For further information about the accreditation of the program, please contact the Commission on Collegiate Nursing Education at the following address:

Commission on Collegiate Nursing Education
One Dupont Circle, NW, Suite 530
Washington, DC 20036-1120
(202) 887-6791

## General Information

The Department of Nursing offers a four year program leading to the Bachelor of Science in Nursing degree. The nursing program of study is designed to prepare graduates with entry level nursing practice knowledge and skills upon which professional careers and additional study can be built. The baccalaureate nursing program emphasizes professional nursing practice and leadership skills. Graduates are prepared to provide comprehensive nursing care for people in a variety of settings. The baccalaureate degree also provides the foundation for graduate education in nursing. Graduates must meet all legal requirements for licensure as established by the State Board of Nursing in order to be eligible to take the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse (RN). Full and part-time study is available.

## Special Programs

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, advanced nursing practice, 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 parttime 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. Thirty-three 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 thirty-three semester 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 Department of Nursing office.

Advanced Placement Option for Licensed Practical Nurses. Students admitted with current licensure as a practical nurse may be eligible for advanced placement in the baccalaureate nursing program. Eligibility is based on faculty review of individual records and documentation, including transcripts, verification and proof of licensure/certification, and validation of clinical practice skills. The option for advanced placement allows students who are licensed practical nurses to challenge by testing up to 25 semester credit hours of required courses in the curriculum. Qualified students interested in this option should contact the Department of Nursing for advisement and additional information. Students must meet all admission and progression requirements for the baccalaureate nursing program. See also "Special Requirements".

## 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.

Admission to the nursing major is competitive. Minimum requirements to be admitted include a grade of $C$ or better in each course in Core Areas $\mathrm{A}, \mathrm{D}$, and F , and a minimum adjusted grade point average of 2.5 in all prerequisite course work attempted (see COHP policy regarding repeating science courses). 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. Students are expected to comply with the core performance standards for nursing posted on the DON web page (www.nursing. armstrong.edu).

Transfer applicants must meet the criteria established for admission to the nursing major. Transfer credit will be awarded depending upon equivalency of courses. Post-baccalaureate students must complete all courses in Area F, MATH 2200 (or appropriate substitute approved by the Nursing department), and all university requirements for degree completion. Decisions for course substitutions will be made by the nursing faculty using actual course syllabi with content outlines and descriptions supplied by the transfer student.

Application to the nursing major must be submitted by the published deadline. (Consult the departmental office for details.) Only completed applications will be considered. Students who are not admitted may reapply for the next admission cycle. Complete information regarding admission procedures is available in the Department of Nursing.

Upon admission, students must pay a $\$ 150.00$ non-refundable deposit to reserve a place in the program. This deposit is applied to first semester fees.

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
- Minimum adjusted grade point average of 2.0 on all prerequisite course work
- Current professional Georgia nursing license

Admitted students must meet specific criteria before they are eligible to enroll in nursing major courses. Completion of the nursing sequence must occur 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 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 (adult, child and infant) prior to beginning nursing courses. Current certification must be maintained during nursing course enrollment.

## 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.

All nursing students will be required to participate in comprehensive testing while enrolled in the nursing program of study. Additional fees per semester will be applicable.

The following must be maintained to continue in the nursing program:

- Grades of C or better in each nursing course ( $\mathrm{C}=75-80$ )
- Overall grade point average of 2.0
- On an annual, up-to-date basis: health history; physical examination by an M.D. or N.P.; tuberculin test or proof of negative chest x-ray; immunizations; CPR certification; 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 one nursing course must meet with the department head or the student services coordinator to review the student's program of study. Before progressing in the program, the student must repeat the failed course at the next offering on a space available basis.

Students earning a grade lower than C in two nursing courses will be dismissed from the program.
Any academic work required to satisfy course requirements for grades of incomplete in prerequisite courses must be accomplished before enrollment in the successive nursing course.

All students must pass the Regents' Test in accordance with AASU policy. Graduating 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.
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING - PRE-LICENSURE STUDENTS
A. General Requirements (Core Areas, A, B, C, D. 2.B., and E) 42 hours
Core Area F 18 hoursBIOL 2081 - Human Anatomy and Physiology IBIOL 2082 - Human Anatomy and Physiology IIBIOL 2275 - Microorganisms and Disease
Two courses selected from:
PSYC 1101 - Introduction to PsychologyPSYC 2950 - Developmental Psychology
SOCI 1101 - Introductory Sociology
Physical Education 3 hours
B. Major Field Courses ..... 62 hours
NURS 3304 - Professional Nursing PracticeNURS 3306 - Transitional Concepts***NURS 3308 - Pharmacological Concepts for NursingNURS 3309 - Pathophysiology
NURS 3320 - Health Assessment of the Well Individual
NURS 3340 - Family Health Promotion
NURS 3355 - Women's Health**
NURS 3345 - Adult Health I**
NURS 4345 - Adult Health II**
NURS 3425 - Children's Health**
NURS 4435 - Mental Health Restoration**
NURS 4440 - Population Focused Nursing
NURS 4445 - Nursing Research
NURS 4450 - Professional Nursing Leadership and Management
NURS 4460 - Professional Nursing Seminar
One elective course selected from:
NURS 4210 - Gerontology in the $21^{\text {st }}$ Century
NURS 4211 - Vulnerable Populations
NURS 4212 - International Nursing Issues and Trends
NURS 4213 - Introduction to Forensic Nursing and the Law
NURS 4214 - Complementary and Alternative Medicine
NURS 4215 - Home Health Nursing
NURS 4216 - Palliative Care at End of Life
NURS 4217 - Critical Care
NURS 4218 - Perioperative Nursing
NURS 4219 - Nursing Perspectives: Then, Now, and the Future
NURS 4220 - Women and Leadership in Nursing
NURS 4221 - Nursing Practice in the Military
**Course may be challenged by testing for licensed practical nurses admitted to the baccalaureatenursing program.
***Advanced placement students only.
Total Semester Hours 127 hours
C. Regents’ Test and Exit Exam
PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING, RN OPTIONS PROGRAM - POST-LICENSURE STUDENTS
A. General Requirements (Core Areas, A, B, C, D.2.B., and E) ..... 42 hours Core Area F 18 hours
BIOL 2081 - Human Anatomy and Physiology I
BIOL 2082 - Human Anatomy and Physiology II

BIOL 2275 - Microorganisms and Disease
Two courses selected from:
PSYC 1101 - Introduction to Psychology
PSYC 2950 - Developmental Psychology
SOCI 1101 - Introductory Sociology
Physical Education 3 hours
B. Major Field Courses 62 hours
NURS 3355 - Women's Health *
NURS 3345 - Adult Health I*
NURS 4345 - Adult Health II*
NURS 4000 - Professional Nursing Practice
NURS 4002 - Leadership and Management for Professional Nurses
NURS 4003 - Health Care Systems and Policy
NURS 4004 - Health Assessment of Individuals and Families
NURS 4006 - Professional Role Synthesis
NURS 3425 - Children's Health*
NURS 4435 - Mental Health Restoration *
NURS 4445 - Nursing Research
NURS 4005 - Population Focused Community Nursing in a Global Society

## Total Semester Hours

127 hours

* In accordance with the Georgia RN-BSN Articulation Model (Advanced Placement Validation of Previous Learning), 33 semester hours credit will be awarded after successful completion of six (6) R.N. Options credit hours.


## C. Regents' Test, Departmental and University Exit Exams

## PHYSICAL THERAPY

## Faculty

David Lake, Department Head and Graduate Coordinator
Anne Thompson, Academic Coordinator of Clinical Education
George Davies
Andi Beth Mincer
Jennifer Lander

## AccreditationStatement

The Department of Physical Therapy is accredited by the Commission on Accreditation of Physical Therapy Education. The program has continuing accreditation through 2012.

## 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. This course of study allows students to be accepted into the professional program as senior 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 (PHTH prefix), students will be admitted into the graduate school.

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. Students can choose to receive the bachelor of science degree in biology after completion of the first two semesters of work in physical therapy. If not accepted into the physical therapy program, 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. Students can choose to receive the bachelor of health science degree after completion of the first two semesters of work in physical therapy. If not accepted into the physical therapy program, 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 public health.

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. 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. 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 match 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 general chemistry with labs and two terms of general physics with labs (must include mechanics, electricity, magnetism, and light)
- two terms of anatomy and physiology with labs, completed in a basic science department
- one term of basic statistics
- minimum grade point average of 2.75 in prerequisite courses (two in anatomy and physiology, two in general chemistry, two in general physics and statistics). No science grade of D or F is acceptable, and no more than one science course may be repeated if a grade of F was received.
- 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. 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 2005, the information packets are available in April, 2004). 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. There is an early acceptance notification deadline of November 15. Following review of the written application, a limited number of applicants are interviewed. Participation in the on-campus interview is required for admission.

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. This deposit is returned to the student upon matriculation into the physical therapy program.

## 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.

## 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 PHTH courses only if faculty members have determined that space is available.

Students must earn a B or better in all PHTH courses. If lower than the required grade is earned in a PHTH 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 PHTH courses will result in dismissal from the program. Failure to earn a grade of B or better on the second attempt of a PHTH 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)

A. General Requirements (Core Areas, A, B, C, D.IIa, and E) ..... 42 hoursCore Area F18 hours
BIOL 2081 - Human Anatomy and Physiology IBIOL 2082 - Human Anatomy and Physiology IIPHYS 1111/1111L - Introductory Physics IPHYS 1112/1112L - Introductory Physics II
Elective credits from areas A-E
Physical Education 3 hours
B. Related Field Courses ................................................................................................................ 5-8 hours
PSYC 1101 - Introduction to Psychology *
HLPR 2000 - Research in Health Professions
CSCI 1050 - Introduction to Computer Concepts and Applications
*If not taken in area $E$
C. Field Area Electives 16-19 hours
Eight (8) semester hours (maximum) of 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 electives at 3000-4000 level.
D. Professional Physical Therapy Program* 36 hours
PHTH 5101U - Functional and Structural Aspects of Movement I
PHTH 5131U - Foundations of Physical Therapy Examination, Assessment and Intervention 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 Examination, Assessment and Intervention II
PHTH 5262U - Physical Therapy Practice Issues II
PHTH 5282U - Clinical Practicum I
PHTH 5290U - Physical Therapy Case Management

* Taken only after acceptance to the physical therapy professional program


## Total Semester 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.

## RADIOLOGICSCIENCES

## Faculty

Sharyn Gibson, Department Head
Deborah Lamb, Clinical Coordinator, Radiography Track
Lee Braswell, Program Coordinator, Radiation Therapy Track
Sharon Smith
Gloria Strickland
Elwin Tilson

## AccreditationStatement

The radiologic sciences programs (radiography and radiation therapy tracks) are accredited by the Joint Review Committee on Education in Radiologic Technology for the period 2001-2008.

## General Information

The Department of Radiologic Sciences offers a bachelor of science degree in radiologic sciences, with tracks in radiation therapy (oncology) and radiography. Both are highly technological health care professions with significant patient contact. Radiographers use radiation, magnetism, and sophisticated computer systems in the production of diagnostic medical images. Radiography is
also the traditional gateway into ultrasound and nuclear medicine. Speciality practitioners perform in areas such as mammography, MRI, CT, cardiovascular intervention, education, and quality management. Radiation therapists work with physicians to plan and deliver radiation therapy treatments, with a primary responsibility for accurate delivery and evaluation of treatments and effective communication with patients. The department also offers a post-baccalaureate certificate program, and an online and a campus-based R.T. to B.S.R.S. bridge 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 semester 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 Radiologic Sciences, or from www.radsci.armstrong.edu. 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. Applicants with less than a 2.3 GPA can apply and may be considered under special circumstances.

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

- Fifty semester hours of non-RADS degree requirements
- Human Anatomy and Physiology I and II or equivalent
- Lab science sequence (chemistry, physics, or biology)
- CPC requirements
- Regents' Test (except for out-of-state transfer students)

Baccalaureate Degree (Bridge) Program and Internet-based Degree (Bridge) Program 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 or radiation therapy (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 (RT certification applies towards these hours)
- 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 sciences 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 State University.

After admission to the Department of Radiologic Sciences, students must pay a $\$ 100.00$ nonrefundable 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. No student may enroll in a clinical education course without the above mentioned requirements.

CPR. Students must show proof of certification in CPR before participating in clinical experiences.

ACLS Certification. Radiography students are required to earn an ACLS certification during the last radiography clinical education course.

Transportation. Students are responsible for providing their own transportation to clinical sites for clinical education courses. Some clinical sites may be located outside of the city of Savannah. Clinical assignments may be as far as two hours away.

## Readmission Requirements

Students who have been admitted to and have enrolled in the radiologic science department, but who have either withdrawn or been dismissed without prejudice from the program, may apply for readmission to the department only if they have a cumulative college grade point average of 2.3 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 SCIENCES

A. General Requirements (Core Areas A, B, C, D.2.B., and E) ............................... 42 hours

Core Area $F$ 18 hours
BIOL 2081 - Human Anatomy and Physiology I
BIOL 2082 - Human Anatomy and Physiology II
MATH 1113 - Pre-Calculus
Approved Elective
One of the following:
PHSC 1211/1211L - Physical Environment and Lab
PHYS 1111/1111L - Introductory Physics I and Lab I
Physical Education ..................................................................................................... 3 hours
B. Major Field Courses .............................................................................................. 35 hours

HLPR 2000 - Research in Health Professions
RADS 3000 - Introduction to Radiologic Sciences
RADS 3100 - Medical Communication Skills
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 3200 - Radiographic Pathology
RADS 3450 - Leadership in Health Care
RADS 4410 - Cross Sectional Anatomy
RADS 4430 - Professional Practice Seminar
RADS 4450 - Radiology Management \& Leadership
a. Radiography Track

31 hours
RADS 3072 - Radiographic Procedures II
RADS 3073 - Radiographic Procedures III
RADS 3161 - Radiography Clinical Education I
RADS 3162 - Radiography Clinical Education II
RADS 4050 - Quality Management in Radiography
RADS 4090 - Radiographic Physics
RADS 4163 - Radiography Clinical Education III
RADS 4164 - Radiography Clinical Education IV
RADS 4164S - Radiography Synthesis Seminar
RADS 4420 - Senior Radiography Seminar

One of the following pairs:
RADS 4111 - Advanced Imaging in MRI and RADS 4171 - Magnetic Resonance Cl. Ed. RADS 4112 - Advanced Imaging in CT and RADS 4172 - Computed Tomography Cl. Ed.
RADS 4113 - Advanced Imaging in Mammography and RADS 4173 - Mammography
Clinical Education
RADS 4114 - Advanced Imaging in CVIT and RADS 4174 - Cardiovascular Interventional Clinical Education

## Total Semester Hours for Radiography Track 129 hours

b. Radiation Therapy Track

31 hours
RADS 3190 - Principles of Radiation Therapy
RADS 3301 - Radiation Therapy Clinical Education I
RADS 3302 - Radiation Therapy 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 - Radiation Therapy Clinical Education III RADS 4304 - Radiation Therapy Clinical Education IV RADS 4304S - Radiation Therapy Synthesis Seminar RADS 4305 - Radiation Therapy Clinical Education V RADS 4305S - Radiation Therapy Seminar

Total Semester Hours for Radiation Therapy Track
129 hours
C. Regents' Test and Exit Exam

## CURRICULUM FOR THE POST-BACCALAUREATE CERTIFICATE PROGRAM IN RADIATION THERAPY

Professional Courses:
RADS 3190 - Principles of Radiation Therapy
RADS 4201 - Radiation Oncology I
RADS 4202 - Radiation Oncology II
RADS 4240 - Radiation Therapy Physics
RADS 4260 - Treatment Planning
RADS 4280 - Quality Management in Radiation Therapy
RADS 3302 - Radiation Therapy Clinical Education II
RADS 4303 - Radiation Therapy Clinical Education III
RADS 4304 - Radiation Therapy Clinical Education IV
RADS 4305 - Radiation Therapy Clinical Education V
Total Semester Hours
27 hours

## CURRICULUM FOR THE CLINICAL SPECIALIST CERTIFICATE IN ADVANCED IMAGING

## Professional Courses:

RADS 4175 - Advanced Clinical Education
RADS 4410 - Cross Sectional Anatomy
Choose one of the following:
RADS 4111 - Advanced Imaging in MRI
RADS 4112 - Advanced Imaging in CT
RADS 4113 - Advanced Imaging in Mammography
RADS 4114 - Advanced Imaging in CVIT

## RESPIRATORY THERAPY

## Faculty

Ross Bowers, Department Head
Vacant, Director of Clinical Education

## AccreditationStatement

The department is accredited by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP) for the period 1997-2005.

## 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 June 1. Applications received after that date will be considered on a space available basis.

Admission to the major is made on a space available basis and is limited to the best qualified students as determined by the admissions committee. Meeting admission criteria does not constitute acceptance into the program. 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 2.00 , 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. 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 CRT exit exam 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. Students will be required to meet admission and curriculum requirements in effect at the time of readmission, and must complete a comprehensive clinical evaluation prior to readmission. Students are responsible for scheduling such evaluations by the mid-term date of the semester prior to readmission. Readmission to the respiratory therapy major is a faculty decision and will be based on space availability and faculty recommendation.

## PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RESPIRATORY THERAPY

A. General Requirements (Core Areas A, B, C, D.2.B., and E) ............................... 42 hours Core Area $F$ 18 hours
BIOL 2081 - Human Anatomy and Physiology I
BIOL 2082 - Human Anatomy and Physiology II
BIOL 2275 - Microorganisms and Disease
PHYS 1111 - Introductory Physics I
PHSC 1211 - Physical Environment
Approved elective
Physical Education
3 hours
B. Major Field Courses 55 hours
RESP 2110 - Medical Terminology
RESP 3110 - Patient Assessment
RESP 3120 - Respiratory Care Equipment
RESP 3151C - Clinical Practicum I
RESP 3210 - Clinical Pharmacology
RESP 3220 - Respiratory Care Fundamentals
RESP 3230 - Diagnostic Procedures
RESP 3252C - Clinical Practicum II
RESP 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 11 hours
BIOL 3400 - Human Physiology
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

## Special Programs

## ACADEMIC ASSISTANCE PROGRAM (LEARNING SUPPORT)

AASU is committed to helping the non-traditional (delayed admission) student succeed by providing the necessary assistance to reach a level of preparation suitable for university studies. Learning support courses (pre-college preparatory courses) prepare any non-traditional student needing assistance for college level work. Learning support courses are offered in the basic academic areas of reading, English, and mathematics. A full time coordinator/counselor is available to serve students.

Eligibility for learning support courses is determined by the score(s) received on the COMputeradaptive Placement Assessment and Support System (COMPASS). A student may be required to enroll in one or more learning support courses based on the COMPASS results. The passing grade for each exam is determined by the University System of Georgia and/or AASU standards. Students required to take learning support courses must do so during their first semester. Students must make reasonable progress in completing learning support course requirements to continue enrollment at the university. Learning support courses carry institutional credit, but hours earned in those courses do not apply to degree requirements. Students will not be permitted to take any credit courses which require the content or skills of a required learning support course as a prerequisite.

Students who wish to drop a learning support course(s) must follow these guidelines:

- Students enrolled in both credit and a required learning support course may not withdraw from the learning support course unless they also withdraw from credit courses carrying three or more semester hours.
- If a student is enrolled in two or more learning support courses and withdraws from one learning support course, the student may remain enrolled in other learning support courses and in credit courses carrying one or two semester credit hours only.
- After the twelfth week of the semester (fifth week for summer semester only), the student will be allowed to remain in the college-level courses if withdrawn from required learning support courses.
Students who have satisfactory results on the COMPASS may nonetheless elect to enroll in learning support courses.Typically this is done to sharpen essential skills before they are needed in other courses.

More information regarding academic support for non-traditional students, learning support courses, placement exams, registration, readmission, and policies regarding progression requirements is available in the Office of Adult Academic Services in Victor Hall.

## CERTIFICATE PROGRAMS

## Certificate in European Union Studies

The European Union Studies Certificate provides an in-depth study of the European Union (EU) and its relationship with the United States and other nations. It is a collaborative program of the University System of Georgia, the European Council, the University of Munich, and the European Union Center of the University System of Georgia. The program is supported by 26 institutions statewide.

The EU Studies Certificate offers a common curriculum open to all university system institutions. The program is housed at the European Union Center at Georgia Institute of Technology. The EU Center is one of ten in the United States officially sanctioned by the European Commission to promote the study of the EU. This sanction enables the certificate program to call upon national and international scholars for course offerings.

A certificate in EU Studies can be taken in tandem with a formal degree program. Students from all academic majors are eligible to participate as long as they possess a minimum 2.75 cumulative

GPA. A student may formally apply to enroll in the program after successful completion of the following:

- EURO 2000 - European Union Studies with a grade of C or better
- 30 semester hours of academic credit
- a course in world or western civilization

The certificate is composed of six courses, each worth three semester hours of academic credit, in which students must maintain a 3.0 cumulative GPA upon graduation (see European Union Studies minor in the Department of History). An official certificate and transcript recognition are awarded by a student's home institution for satisfactory fulfillment of the curriculum.

A practicum experience pertaining to the EU must be performed either in the form of an overseas visit or internship. The overseas option is broadly defined and can be accommodated by a wide range of activities, including study or research abroad. The same flexibility applies to the internship, which can be served domestically or internationally. A student's specific practicum experience must be approved by the program's campus representative. Inquire in the Department of History for more information.

The certificate also highlights special achievements by providing a notation of "distinction" in two areas:

- foreign language proficiency ( 6 semester hours at or above the 2000 level)
- composition of a thesis


## Certificate in Forensic Science

As the methodology of criminal investigators becomes more firmly rooted in the natural and physical sciences, it is important that practitioners in the criminal justice system have a better foundation in the sciences and that more persons whose primary training is in science become criminal justice professionals. This certificate builds on strong Armstrong programs in chemistry, biology, and criminal justice to address these needs.

This certificate will be of interest primarily to undergraduate students with majors or minors in biology, chemistry, or criminal justice and to post-baccalaureate students who have substantial academic backgrounds in biology or chemistry. Students will receive a certificate in forensic science when they complete this sequence of biology, chemistry and criminal justice courses:

BIOL 2500 - Principles of Modern Biology
BIOL 3010 - Modern Biology Laboratory
CHEM 2300 - Principles of Chemical Analysis
CHEM 3100 - Chemical Forensics
CRJU 3200 - Criminalistics, or an internship in forensic science
One additional course taken from:
BIOL 3300, BIOL 3530, BIOL 3200, BIOL 4090, CHEM 2102, CHEM 3300, CRJU 2200

## Certificate in Latin American Studies (CLAS)

As a collaborative program of the University System of Georgia and the Americas Council, the Certificate in Latin American Studies provides an in-depth study of Latin America and its relationship with the United States and other nations. The CLAS offers a common curriculum open to all university system institutions. The program recognizes a student's knowledge and understanding of a region of growing importance, both economically and culturally. The course of study is designed to be interdisciplinary and complementary to existing undergraduate programs. Students who satisfy the certificate requirements in their undergraduate degree will be awarded a Certificate in Latin American Studies which will be noted in the student's placement materials and on their transcript.

A certificate in Latin American Studies must be taken in conjunction with a formal degree program. Students from all majors who hold a 2.80 GPA are eligible to participate. A student may formally apply to enroll in the program after successful completion of thirty hours of academic
credit and either HIST 3110 - History of Latin America since 1850 or SPAN 3120 - Civilization and Culture of Latin America.

Requirements for the certificate encompass two areas:
Language Area ( 6 hours)

- 0-6 hours of Spanish or French at the 3000 level or above. These hours may be taken as part of an approved study abroad program as long as the course is beyond the intermediate level. or
- demonstration of written and oral proficiency in Spanish, Portugese, French, Haitian Creole, or Quechua. Demonstration of language proficiency above the intermediate level as defined by ACTFL standards through examination, a grade of C or better at the 3000 level, or successful completion of an oral and written examination evaluated by a qualified University System of Georgia faculty member (for Haitian Creole and Quechua.


## Latin American Area (12 hours)

One of the following:
HIST 3110 - History of Latin America since 1850
SPAN 3120 - Civilization and Culture of Latin America
Three courses ( 9 hours) in Latin American Studies, two of which must be from outside the student's major, from the following:

- Any Latin American upper division courses offered in the University System of Georgia
- Six hours may come from courses that have a minimum 25\% Latin American component
- No more than six hours from study abroad or internships
- No more than one course may be taken at the 1000-2000 level

All courses, study abroad programs, and internships must be approved by the director of International Education (Dr. James Anderson) or the campus CLAS Coordinator (Dr. Bill Deaver). All courses require a grade of C or better.

Honors Option. A student may receive an Honors Certificate in Latin American Studies if he or she maintains an overall GPA of 2.8 and a GPA of 3.5 in all CLAS courses, and submits a senior honors paper on a Latin American topic to a faculty member in that field. The paper must receive a B+ or better.

## Other Certificate Programs

Armstrong Atlantic offers other certificate programs that are administered by individual academic departments. Please see the appropriate departmental section of this catalog for details.

Financial Economics Certificate - Department of Economics
Yamacraw Certificate - Department of Computer Science
Information Technology Certificate - Department of Information Technology
Gerontology Certificate - Department of Health Science
Medical Technology Certificate - Department of Medical Technology
Radiation Therapy Certificate - Department of Radiologic Sciences

## INTERNATIONAL EDUCATION PROGRAMS

James Anderson, Director

## Study Abroad

Study abroad programs sponsored by AASU and the University System of Georgia provide students with the opportunity to study abroad while earning academic credit toward completion of the degree requirements at their home campus. AASU has summer study abroad programs in Mexico, Peru, Ireland, Paris, London, Argentina, Kazakhstan, Denmark, Estonia and St. Petersburg, Russia, while the University System of Georgia offers summer study programs in countries around the world: England, Canada, Estonia, Israel, Argentina, Brazil, Costa Rica, Mexico, China, Japan, Australia, Ethiopia, Tanzania, the Ivory Coast, France, Germany, Italy, and Spain. In addition, semester and academic year study abroad opportunities are available in several countries.

Studying abroad provides the opportunity to gain appreciation for the cultures and institutions of other peoples, facilitates the development of relevant career skills, and contributes to personal maturity, a sense of independence, self-knowledge, and confidence.

Study abroad programs are open to all undergraduate students; however, certain programs may require the completion of prerequisites. Students in the University System of Georgia who are eligible for financial aid may use that aid toward study abroad programs. A limited number of AASU and Regents' scholarships are available. For further information, contact the Office of International Education (912-921-5671).

## International Studies Certificates

Armstrong Atlantic State University, in conjunction with other University System of Georgia institutions and foreign institutions, offers certificates in European Union Studies and Latin American Studies. See the preceding section for details.

## International Studies Minor

International Studies 15 hours
Consult history and/or criminal justice, social and political science departments for program of study.

## WOMEN'S STUDIES PROGRAM

## Teresa Winterhalter, Coordinator

The women's studies program offers essential academic perspectives on areas as diverse as literature, history, art, health, and psychology. It is an interdisciplinary field of inquiry that examines women's roles, achievements, and experiences, both historically and across cultures. This program is designed to bring to light valuable information about women in the family and at work, in the arts, in politics, and in the sciences-information that traditional scholarship has overlooked. AASU's women's studies program also explores the relationship between cultural definitions of feminine behavior and the realities of women's lives. It considers the ways class, race, ethnicity, and age shape the female experience; and examines the ways in which gender is socially and culturally constructed rather than determined by biology alone.

Undergraduate students may complete a certificate or minor in Women's Studies by completing work from the following list of courses approved for the minor and certificate. The undergraduate certificate may also be completed by non-degree seeking students (including those who already hold a baccalaureate degree) who would like to expand their knowledge of women's studies.

## Women's Studies Minor

Women's Studies 15 hours
Fifteen semester hours from courses approved for the Women's Studies Minor in addition to those taken to satisfy areas A-E of the core. The courses taken from the approved list must include:

1. At least nine semester hours from courses numbered 3000 or higher
2. Either WMST 1101 or 2101 (but may include both)

## Courses approved for the Women's Studies Minor and Undergraduate Certificate:

ARTS 5760U - History of Photography
ARTS 5770U - Art and Identity
CRJU 3510 - Family Violence
ENGL 5340U - Literature by Women
FILM 5025U - Critical Approaches to Film, Television, and Popular Culture
HIST 3740 - History of American Women
HIST 5660U - Topics in the History of Women and Gender
NURS 3355 - Women's Health

PSYC 3100 - Human Sexuality
PUBH 5570U - Women and Minority Health Issues
PUBH 5575U - Health/Sexuality Education
SOCI 3510 - Family Violence
WMST 1101 - Introduction to Women's Studies
WMST 2101 - Ethics, Values, and Gender
WMST 2200 - Gender in Global Contexts
WMST 4000 - Topics in Women's Studies
WMST 5000U - Perspectives in Feminist Theory

## Undergraduate Certificate in Women's Studies

Successful completion of the certificate requires twelve semester hours from courses approved for the Undergraduate Women's Studies Certificate. The courses selected must include at least one of WMST 1101 or WMST 2101, but may include both

## Graduate Certificate in Women's Studies

The Women's Studies Program also offers a graduate certificate in Women's Studies. See the AASU Graduate Catalog for details.

## BASIC LAW ENFORCEMENT CERTIFICATE

Gregory Sewell, Director
John Eustace, Assistant Director
Melissa Powell, Office Manager

Chris Findley, Instructor

Tom Safrin, Instructor

## 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 contact the program coordinator @ 912-921-5754 for information. Academy courses only carry institutional credit.

## Admission Requirements

Traditional applicants must have a high school diploma or have satisfactorily completed the GED, and have SAT/ACT scores. Applicants are exempt from CPC requirements, but must take the CPE or COMPASS examinations if SAT/ACT 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.

## MILITARY SCIENCE (Army ROTC)

## Faculty

Colonel James E. Handley, Department Head
SFC John Cox
Tommie Pullins

## General Information

The Army Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC) Instructor Group, staffed by Army personnel. The department provides a curriculum available to Armstrong 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 Army National Guard. Qualifying for a commission adds an extra dimension to the student's employment capability in that, upon graduation from the university, the student has either military or civilian employment options. Enrollment in military science classes is open to all students.

The course of study offered in military science is designed not only to prepare the student for service as a commissioned officer in the U.S. Army but also to provide knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the U.S. Army in national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advanced military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the 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.

## 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. Regardless of prior military service, all students must be academically aligned (i.e., freshmen must take freshman level military science courses, etc.).

## Alternate Programs for Admittance

Students with two years of coursework remaining, but who have not completed basic military science, are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete the Leadership Training Course (LTC) of five weeks duration prior to entering the advanced program. Students attending the LTC at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return. Attendance at basic camp is voluntary and incurs no military obligation until the student returns and decides to sign a contract to pursue a commission.

## ParticipatingStudents and Aliens

Participating students are students who participate in military science courses but are not fully enrolled or are ineligible for enrollment in the ROTC programs. Participating and alien students may enroll in the military science classes provided they meet the requirements outlined in army regulations and are approved by the department head and/or school authorities. Although these students may enroll in military science classes, they may only participate in classroom instructions. They will not participate in any high risk training, drill, marching, leadership laboratories, field training exercises, voluntary programs, or attend basic or advanced camp. These students will also not be issued the uniform, nor receive credit toward commissioning or enlisted grade status through completion of ROTC courses.

## National Advanced Leadership Camp

Students contracting to pursue the advanced courses are required to attend the national camp, normally between their junior and senior academic years at Fort Lewis, Washington. The duration of the camp is 29 days. MILS 2250, MILS 3350, MILS 3351.

## Financial Assistance

All contracted advanced course cadets are paid a subsistence allowance of $\$ 200$ 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 from $\$ 300$ to $\$ 400$ per month for the academic year. The Savannah Volunteer Guards have established a full-tuition scholarship for qualified incoming freshmen enrolled in ROTC classes. No military obligation is incurred. The scholarship is for one year, with a possibility of renewal for the next school year. Individuals desiring to compete for these scholarships should apply to the Military Science Department.

## Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books, and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before commissioning or upon disenrollment from the ROTC program.

## MILS Courses

The basic course of four semester duration consists of two hours of instruction work per week. Students acquire knowledge of military leadership, weapons, tactics, basic military skills, and physical fitness. In field training exercises, potential for leadership is progressively developed. Basic course students are invited and encouraged to attend military science leadership laboratories and physical training sessions.

The advanced course consists of three hours of classroom work and one hour of leadership laboratory per week. During the spring 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.

## NAVAL SCIENCE (Naval ROTC)

## Faculty

Captain Robert Ford, USN, Department Head
Commander Gary English, USN
Maj. Timothy Bradley, USMC
Lt. Marty Alexander, 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

Twenty-two semester hours consisting of the following:
NSCI 1001 Introduction to Naval Science
NSCI 1002 Seapower and Maritime Affairs
NSCI 1003 Sailing
NSCI 2101 Naval Ships Systems I (engineering)
NSCI 2102 Leadership and Mangement
NSCI 3003 Navigation I
NSCI 3004 Navigation II
NSCI 3101 Evolution of Warfare
NSCI 4001 Naval Ships Systems II (weapons)
NSCI 4050 Naval Drill
NSCI 4102 Amphibious Warfare
NSCI 4104 Leadership and Ethics

## 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, and laboratory expenses. The scholarships can pay for up to four years of expenses and includes a $\$ 300$ per semester book stipend. Additionally, the professor of naval science has ten scholarships to be awarded to qualified high school graduates.

## Financial Assistance

All midshipmen in the NROTC Program who qualify for the college program or the scholarship program are paid a monthly tax-free stipend. The monthly amount is $\$ 250$ for freshmen, $\$ 350$ for sophomores, $\$ 350$ for juniors, and $\$ 400$ for seniors.

## Summer Training Cruises

Scholarship midshipmen will go on summer training cruises during three of their summer interterm periods. Other midshipmen will attend summer training cruises based on their scholarship programs.
PROGRAM OF STUDY
ALL MIDSHIPMEN:
NSCI 1001, 1002, 1003, 2101, 2102, 4001, 4104 20 hours
Advanced Program - Navy Option:
NSCI 3003, 3004 6 hours
Advanced Program - Marine Corps Option:
NSCI 3101, 4102 ..... 10 hours
Additional and Substitute Requirements:NSCI 4050, Naval Drill (0-2-0), is required each academic term of all midshipmen.NSCI 1003 and 4050 satisfy the university physical education requirement.
Navy Scholarship Midshipmen (additional requirements):
One year of calculus (completed before the junior year) 6 hours
One year of calculus-based physics (completed before senior year) ..... 6 hours
Computer science ..... 3 hours
Military history and political science ..... 6 hours(Specific courses that satisfy the above requirement will be promulgated by the professor ofnaval science.)

## Course Index and Descriptions

## Numbering System for Courses

In the course listings that follow, there appear three numbers in parentheses after each course title. The first number listed indicates the number of hours of lecture; the second number listed indicates the number of 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 1100 THE UNIVERSITY EXPERIENCE

Preparation for first-year students to become active, effective participants in the AASU experience. Topics include an introduction to campus resources and support services, familiarization with the career planning and major choice processes, an overview of campus policies and procedures, and an introduction to campus technologies. Credit granted for either AASU 1101 or 1100.

## AASU 1101 STRATEGIES FOR SUCCESS <br> 2-0-2

Skills, information, and guidance useful for success in college while focusing on the purposes of higher education, the roles of the student, and the resources available within the university for academic success and career choices. Credit granted for either AASU 1100 or 1101.

## 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 <br> 3-0-3

Prerequisite: ANTH 1102
Biological anthropology through the principles of evolution and genetics, evolutionary forces, human variation and adaptation, primate evolution and behavior, the fossil record of human ancestors and early modern humans, and the relationship between human biology and culture.

## ANTH 3050 NORTH AMERICAN INDIANS

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

Prerequisite: permission of instructor or ANTH 1102
Social behavior and ecology of prosimians, monkeys, and apes and the implications for the evolution of human social behavior. Topics include primate origins and evolutionary trends, survey of living primates, social organization, ecology and social behavior, and models for the evolution of human behavior.

ANTH 3100 ANTHROPOLOGY OF SEX AND GENDER
3-0-3
Prerequisite: ANTH 1102
Biological determinants of sex differences and the cultural determinants of gender roles, with an emphasis on the cross-cultural relationship between gender roles and the control of resources.

## ANTH 3820 INTRODUCTION TO ARCHAEOLOGY <br> 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.

## ANTH 4000 SORCERY, DEMONS, AND GODS

## 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 BEHAVIOR

3-0-3
Prerequisite: ANTH 1102
Examination of human social behavior from a biological anthropological perspective, including topics such as altruism and kinship, human mating strategies, reproduction and parenting, ecology of social systems, and life history strategies.

ANTH 4401, - 02 , - 03 SPECIAL TOPICS IN ANTHROPOLOGY
Prerequisite: ANTH 1102
Upper-level courses not otherwise offered in the anthropology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor.

## ARTS-Art

ARTS 1010 DRAWING I
1-4-3
Introduction to the techniques, materials and principles of drawing.
ARTS 1011 DRAWING II $\mathbf{1 - 4 - 3}$
Techniques, materials and principles of drawing.
ARTS 1020 TWO-DIMENSIONAL DESIGN
1-4-3
The fundamentals of two dimensional design introduced through projects in a variety of media.

## ARTS 1030 THREE-DIMENSIONAL DESIGN

1-4-3
An investigation of three-dimensional forms and space using materials and methods.
ARTS 1100 ART APPRECIATION $\mathbf{3 - 0 - 3}$
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 <br> 1-4-3

Prerequisite: ARTS 1010 and ARTS 1020
Acrylic painting from observed and secondary sources.
ARTS 2012 PAINTING II
1-4-3
Prerequisite: ARTS 2011
Continuation of Painting I with increased emphasis on student selected problems.

## ARTS 2040 INTRODUCTION TO PHOTOGRAPHY

1-4-3
Black and white photographic aesthetics, processes. Functions of 35 mm camera and processing of film and printing.

1-4-3
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 2150 THE COMPUTER IN ART

1-4-3
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

Basic craft processes and techniques with emphasis on fibers and metalwork.
ARTS 2710 ART HISTORY I
3-0-3
Visual arts from prehistory to 1400 .

## ARTS 2720 ART HISTORY II <br> 3-0-3 <br> Visual arts from 1400 to the present.

## ARTS 3030 OIL PAINTING

1-4-3
Prerequisite: ARTS 2011
Special qualities and techniques of oil painting.
ARTS 3040 WATERCOLOR PAINTING $\mathbf{1 - 4 - 3}$
Prerequisite: ARTS 1010
Exploration of traditional and experimental approaches to transparent watercolor.

| ARTS 3130 DRAWING III | $\mathbf{1 - 4 - 3}$ |
| :--- | :--- |
| Prerequisite: ARTS 1011 |  |
| Continuation of Drawing II emphasizing complex problems in concept design and media. |  |

ARTS 3140 INTERMEDIATE PHOTOGRAPHY
1-4-3
Prerequisite: ARTS 2040
Advanced study of the aesthetics and processes in black and white photography.

## ARTS 3150 COLOR PHOTOGRAPHY <br> 1-4-3

Prerequisite: ARTS 2040
Aesthetics and print processes of color photography.

## ARTS 3160 HAND-COLORED AND MANIPULATED SILVER PRINT <br> 1-4-3

Prerequisite: ARTS 2040
Exploration of media and techniques to enhance and alter a silver print. Emphasis on hand applied color and toning.

## ARTS 3170 EXPERIMENTATION IN PHOTOGRAPHY

1-4-3
Prerequisite: ARTS 2040
Exploration of experimental techniques, i.e., solarization, mordancage, negative prints, photograms, double exposures, and others. Non-silver processes, cyanotype, van dyke brown and others.

## ARTS 3200 ART FOR THE CHILD

Prerequisite: admission to the College of Education and ECUG 3040 and ECUG 3050 and ECUG 3071 and ECUG 3100 and ECUG 3010
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

1-4-3
Fundamentals of wheel thrown pottery, hand building techniques, ceramic sculpture. Emphasis on decoration, form, craftsmanship, creativity. Traditional glazing and firing techniques and exploration into non-traditional methods of coloring and construction.

## ARTS 3330 CERAMIC SCULPTURE

## 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

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 <br> 1-4-3

Basic printmaking processes. Emphasis on relief, intaglio and non-traditional processes, i.e. collagraph, monoprints.

## ARTS 3500 ART IN THE ELEMENTARY GRADES

Prerequisite: admission to teacher education or permission of instructor
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

1-4-3
Prerequisite: admission to teacher education or permission of instructor
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 <br> Design and production of jewelry and enameled objects.

## ARTS 3630 FABRIC DESIGN

1-4-3
Application of original designs to fabric with emphasis on batik, tie-dye, direct application, and combined techniques.

## ARTS 3640 WEAVING

Basic weaves, the hand loom, and off the loom weaving techniques.
ARTS 3660 PAPERMAKING
Hand papermaking with emphasis on the production of both two- and three-dimensional pieces.

## ARTS 3700 FIGURE SCULPTURE

1-4-3
Prerequisite: ARTS 3300
Basic sculpture ideas, terminology, processes. Emphasis on the human figure using clay and other media.
ARTS 3710 SCULPTURE MATERIALS
Additive and subtractive sculpture techniques with emphasis on wood construction, carving, and mixed media.

ARTS 3720 FIBER SCULPTURE
The application of fiber methods to create three-dimensional pieces, using traditional and nontraditional materials.

## ARTS 3800 ELECTRONIC IMAGE MANIPULATION

Advanced techniques and theory of computer imaging, graphics, illustration, and mixed media.

## ARTS 4700 SENIOR PORTFOLIO

1-4-3
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 4750 B.F.A. PROJECT
0-3-3
Prerequisite: permission of the department
The research and development of a cohesive body of work for the B.F.A. Exhibition.

## ARTS 4890 SELECTED STUDIES IN ART

$$
\mathrm{V}-\mathrm{V}-(1-4)
$$

Offered on demand to meet special institutional and community needs. May be repeated for credit.

## ARTS 4900 DIRECTED INDIVIDUAL STUDY <br> 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

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 $\mathbf{1 - 4 - 3}$
Prerequisite: nine hours of coursework in a selected studio area
Special problems in visual arts mutually agreed to by student and instructor.

## ARTS 5430U TECHNOLOGY IN ART EDUCATION

Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 3500 or ARTS 3510
Examination, development, and use of technological resources for teaching art in pk-12 classrooms.

## ARTS 5500U CURRICULUM AND METHODS IN ART EDUCATION

1-4-3
Prerequisite: Limited, Provisional, Regular, or Certification acceptance into theSchool of Graduate Studies or acceptance into the School of Education and ARTS 3500 or ARTS 3510
The planning, implementation, and evaluation of a sequential curriculum for the fine arts in schools, museums, and art centers. Areas of analysis include past and present art programs and art education movements as alternative models for curriculum design; creation and evaluation of innovative school, college, museum, and other institutional art programs; meaning and method of curriculum improvement; guidelines for curriculum, decision making; testing and evaluating curriculum innovations.

ARTS 5560U ISSUES IN AESTHETICS AND ART EDUCATION CRITICISM
3-0-3
Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 3500 or ARTS 3510
An introduction to basic issues related to the teaching aesthetics, art criticism, and art history to P-12 students. Students will design, implement, and evaluate developmentally appropriate instruction for teaching these issues.

ARTS 5750U CONTEMPORARY ART AND CRITICISM
Prerequisite: ARTS 2720
Exploration of contemporary art historical and critical issues.

ARTS 5770U ART AND IDENTITY<br>3-0-3<br>Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 2720 or ENGL 2100<br>An examination of issues of identity (such as race, gender, religion, age and socioeconomic status) and their impact on the production and consumption of images.

## ARTS 5780U ART OF AFRICA AND DIASPORA

Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 2720 or ENGL 2100
Overview of images produced on the African continent and those created by people who were transported to or migrated to the Americas, the Caribbean, and Europe. Emphasis will be placed on the work of twentieth and twenty-first century artists in exploration of their African heritage.

## ASTR - Astronomy

ASTR 1010 ASTRONOMY OF THE SOLAR SYSTEM
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 1020 STELLAR AND GALACTIC ASTRONOMY

Prerequisite: eligibility for MATH 1111
The study of the sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, the origin and evolution of the universe.

## ASTR 3000 INTRODUCTION TO THE UNIVERSE

Prerequisite: eligibility for MATH 1111
A survey of the universe. Examines the historical origins of astronomy; the motions and physical properties of the sun, moon, and planets; the formation, evolution and death of stars; the structure of galaxies; the expansion of the universe. (Students may not receive credit for ASTR 3000 if they receive credit for ASTR 1010 and ASTR 1020.)

## BIOL-Biology

BIOL 1107 PRINCIPLES OF BIOLOGY I
Prerequisite: eligibility for ENGL 1101
Elements of chemistry; cell structure and function; DNA and protein synthesis, biotechnology; bioenergetics; evolution and diversity of life; experimental design and data analysis.

Prerequisite: Eligibility for ENGL 1101 and admission to the Honors Program, or permission of instructor A more in-depth treatment of topics covered in BIOL 1107. In addition to normal lecture format, students will participate in group discussions, book reviews and debates on recent important discoveries and issues in biology. Lab content will be similar to BIOL 1107, but will include more advanced lab techniques, problemsolving activities, and fieldwork.

## BIOL 1120 DIVERSITY OF LIFE

Prerequisite: eligibility for ENGL 1101
Survey of the kingdoms of life, including monera, protista, fungi, plantae, animalia, and sub-life groups such as viruses. (Credit may not be applied toward a major in biology.)

## BIOL 1130 HUMAN BIOLOGY <br> 3-0-3

Prerequisite: eligibility for ENGL 1101
Structure and function of human organ systems, human heredity, evolution, and ecology. (Credit may not be applied toward a major in biology.)

## BIOL 1140 ENVIRONMENTAL BIOLOGY

3-0-3
Prerequisite: eligibility for ENGL 1101
Relationship of humans to their environment with consideration of natural cycles and balances, populations, energy, air and water pollution, solid waste issues and environmental regulation and legislation. (Credit may not be applied toward a major in biology.)

## BIOL 2010 MICROBIOLOGY

Prerequisite: BIOL 1107
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

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

Prerequisite: BIOL 1107 or CHEM 1151 or CHEM 1211 or CHEM 1010
Gross anatomy, histology and physiology of human organ systems. (Non-majors course intended for health professions students.)

## BIOL 2082 HUMAN ANATOMY AND PHYSIOLOGY II

Prerequisite: BIOL 2081
A continuation of BIOL 2081. Anatomy, histology, and physiology of human organ systems. (Nonmajors course intended for health professions students.)

## BIOL 2150 HUMAN PHYSIOLOGY AND DISEASE

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 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 2275 MICROORGANISMS AND DISEASE 3-3-4

Prerequisite: BIOL 2081 and BIOL 2082
Morphology, genetics, physiology, and public health importance of microorganisms with emphasis on bacterial pathogens. (Non-majors course intended for health professions students)

## BIOL 3000 CELL BIOLOGY

Prerequisite: BIOL 2500
Prerequisite or corequisite: CHEM 1211 and CHEM 1211L
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

Prerequisite: BIOL 2500
Prerequisite or corequisite: CHEM 1211 and CHEM 1211L
Open to juniors and seniors. 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 3020 ZOOLOGY
Prerequisite: BIOL 1108
A survey of the animal kingdom. Taxonomy, natural history, development, evolution, structure and physiology of animals.

BIOL 3100 MAN AND THE ENVIRONMENT
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.)

BIOL 3150 HORTICULTURE
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
Taxonomic systems used in plant classification, dichotomous keys, phytography, 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.

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

Prerequisite: BIOL 1108
Insects: structure, identification, and biology.
BIOL 3310 INVERTEBRATE ZOOLOGY
Prerequisite: BIOL 1108
Structure, body functions, interrelations, and natural history of invertebrate groups.

## BIOL 3400 HUMAN PHYSIOLOGY

Human organ systems with special attention to neuromuscular and cardiopulmonary function.

## BIOL 3500 TOPICS IN THE LIFE SCIENCES FOR EDUCATORS

Prerequisite: admission to the College of Education and two courses in science, including one lab course. Open only to students in middle grades science track.
A survey of life sciences including topics such as biochemistry, cellular structure and function, DNA and protein synthesis, genetics and evolution, animal structure and function, the kingdoms of life, and principles of ecology.

## BIOL 3510 BACTERIOLOGY

Prerequisite: BIOL 2500
Prerequisite or corequisite: CHEM 1211 and CHEM 1211L
Prokaryotic cell structure and function including methods of control, industrial uses, and ecology.

## BIOL 3520 MEDICAL MICROBIOLOGY

Prerequisite: BIOL 2010 and CHEM 1211
Disease causing microbes, their diagnosis, pathogenesis, and epidemiology.

## BIOL 3530 IMMUNOLOGY AND SEROLOGY

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

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

Prerequisite: BIOL 2500
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 <br> 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 <br> Prerequisite: BIOL 1108 <br> Development, anatomy, and evolution of vertebrate organ systems.

## BIOL 3870 ANIMAL HISTOLOGY

Prerequisite: BIOL 1108
Tissues and their organization into organs and organ systems in animals.

## BIOL 3920 PARASITOLOGY

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
Prerequisite or 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

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 BIOLOGY

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Theories and principles in molecular biology including applications and ethical issues associated with new technologies. Laboratory emphasis on recombinant DNA technologies: DNA isolation, purification and quantification, bacterial recombination, construction of genomic libraries, DNA restriction and gel electrophoresis, restriction mapping, southern blotting and polymerase chain reaction. Term paper with oral and written presentations required.

## BIOL 4150 PLANT PHYSIOLOGY

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
Prerequisite: BIOL 1108 and BIOL 2500
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
General physiologic processes of vertebrates.
BIOL 4210 COMPARATIVE PHYSIOLOGY
3-0-3
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Homeostatic mechanisms in animals, with emphasis on differing organs and adaptations which allow organisms to survive and succeed in their normal habitats, and animals' responses to normal environmental conditions and to experimental conditions.

## BIOL 4220 ENDOCRINOLOGY

3-0-3
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: BIOL 4200 and CHEM 2101 and CHEM 2101L
Vertebrate endocrine systems: glands, targets, mechanisms of action, and control of metabolism.

## BIOL 4300 MICROBIAL PHYSIOLOGY

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
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
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
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
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
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 4450 MORPHOLOGY OF VASCULAR PLANTS

## 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
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 4565 PHYSIOLOGICAL ECOLOGY

Responses and adaptations at the organismal level, especially animal, 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.

Functioning of human organs and systems. Some neuromuscular and cardiopulmonary emphasis.

## CEUG - Education Core

CEUG 1010 HUMAN GROWTH AND DEVELOPMENT
Lifespan development that focuses on physical, emotional, cognitive, and social development. Application to classroom teaching and learning.

## CEUG 2100 INTRODUCTION TO STUDENTS WITH DISABILITIES

## Prerequisite: CEUG 1010

Survey of special education policies and identification and education of students who have special education needs. Meets certification requirements for H.B. 671.

CEUG 2222 INTRODUCTION TO RESEARCH DESIGN
Prerequisite: MATH 1111 and PSYC 1101
Prerequisite or corequisite: MATH 2200
Introduction to quantitative and qualitative research designs and methods. Inferential statistics, data collection, analyses of data and report of research findings, interpreting and translating research into practical applications.

## CEUG 3012 LANGUAGE DEVELOPMENT: AGES AND STAGES

3-1-3
Normal development of language components: semantics, phonology, morphology, syntax, and pragmatics across the life span. Explores typical and atypical language behaviors and describes intervention and simulation strategies. Practicum required.

## CEUG 3072 TEACHING OF READING

Developmental reading program with emphasis on reading skills, approaches, techniques, materials and evaluation including directed field experiences.

## CEUG 3500 ORAL COMMUNICATION FOR TEACHERS

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)
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 4200 SPECIAL TOPICS
V-V-(1-4)
Prerequisite: permission of instructor or department
Study of topics relevant to education.
CEUG 4442 CURRICULUM AND METHODS OF FOREIGN LANGUAGE EDUCATION

3-9-3
Prerequisite: admission to the College of Education and MGSE 3050
Middle and secondary school theory, methods, and materials appropriate for second language acquisition.

## CEUG 4630 CLASSROOM MANAGEMENT P-12

## 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

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

3-0-3
Prerequisite or corequisite: CEUG 3072 or ECUG 3072
Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

## CHEM - Chemistry

CHEM 1010 ESSENTIALS OF CHEMISTRY 3-0-3
Prerequisite or corequisite: MATH 1101 or MATH 1111
Quantitative survey of chemical sciences emphasizing applications in human physiology, clinical chemistry, inorganic, organic, and biochemistry. Experimental principles illustrated with class-room demonstrations. (Credit in CHEM 1010 may not be applied to the major field requirement in chemistry.)

## CHEM 1151 SURVEY OF CHEMISTRY I

3-0-3
Prerequisite: eligibility for MATH 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

Prerequisite: eligibility for MATH 1111
Prerequisite or corequisite: CHEM 1151
Laboratory exercises supplement the lecture material of CHEM 1151.

## CHEM 1152 SURVEY OF CHEMISTRY II <br> 3-0-3

Prerequisite: CHEM 1151
Second course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health profession majors.

## CHEM 1152L SURVEY OF CHEMISTRY II LABORATORY

0-3-1
Prerequisite: CHEM 1151L
Prerequisite or corequisite: CHEM 1152
Laboratory exercises supplement the lecture material of CHEM 1152.

## CHEM 1211 PRINCIPLES OF CHEMISTRY I <br> 3-0-3

Prerequisite or corequisite: MATH 1111 and CHEM 1211L
Corequisite: CHEM 1211R if the score on the mathematics portion of the SAT is less than 500. If no SAT score is available, permission must be obtained from the department head prior to registering for CHEM 1211. 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.

Recitation to accompany CHEM 1211 for students scoring less than 500 on the mathematics portion of the SAT. Credit in CHEM 1211R may not be applied to the major field requirement in chemistry. Grading is satisfactory/unsatisfactory.

## CHEM 1212 PRINCIPLES OF CHEMISTRY II

Prerequisite: CHEM 1211 and CHEM 1211L
Prerequisite or 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
Prerequisite or corequisite: CHEM 1212
Analytical applications of chemical laws and principles emphasized through laboratory investigations.
CHEM 1212H HONORS PRINCIPLES OF CHEMISTRY II
Prerequisite: CHEM 1211 and CHEM 1211L and approval of department head and a minimum grade of B in CHEM 1211 and CHEM 1211L
Prerequisite or corequisite: CHEM 1212A
Second course in a two-semester sequence covering the fundamental and more advanced principles and applications of chemistry designed for science majors. A more in-depth treatment of the topics covered in CHEM 1212.

## CHEM 1212A HONORS PRINCIPLES OF CHEMISTRY II LAB

Analytical applications of chemical laws and principles emphasized through advanced laboratory investigations. A more in-depth treatment of the topics covered in CHEM 1212L.

## CHEM 2101 ORGANIC CHEMISTRY I

Prerequisite: CHEM 1212/1212L
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

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
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.

Interdisciplinary study of the chemical and biological nature and utilization of foods, including storage and processing technologies affecting health, safety, and consumption.

## CHEM 2600 ETHICAL THEORIES AND MORAL ISSUES IN THE SCIENCES

## Prerequisite or corequisite: 6 semester hours of science

Examination of the relationship between ethical theory and moral practice in specific areas of our society. This course involves two parts: (1) an explanation and analysis of the principal ethical theories of the Western world and (2) the application of those ethical theories to moral issues and case studies in the physical sciences.

## CHEM 2700 DESCRIPTIVE AND MATERIALS CHEMISTRY

Prerequisite: CHEM 1212 and CHEM 1212L
Topics include descriptive chemistry of the main group elements, the transition elements, and industrial chemical processes.

## CHEM 3071 PRINCIPLES OF CHEMICAL PROCESSES I

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
Prerequisite: CHEM 3071
Continuation of CHEM 3071.

## CHEM 3100 CHEMICAL FORENSICS

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. (Credit in CHEM 3100 may not be applied to the major field requirement in chemistry.)

## CHEM 3200 INORGANIC CHEMISTRY

Prerequisite or corequisite: CHEM 2102
Fundamental principles in inorganic chemistry. Topics include electronic structure of atoms, inorganic bonding theories, group theory, coordination chemistry, and spectroscopic applications. The lab reinforces theoretical aspects.

Prerequisite: CHEM 2102/2102L and CHEM 2300 and either PHYS 1112/1112L or PHYS 2212/ 2212L
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 3402 PHYSICAL CHEMISTRY II

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 3802 BIOCHEMISTRY II

Prerequisite: CHEM 3801 and CHEM 2300
Chemistry of cellular components: function and analysis of proteins, function, metabolism and biosynthesis of amino acids and nucleic acids, DNA manipulations and recombinant technology, DNA transcription, translation, protein synthesis, and regulation of gene expression. Bioanalytical techniques emphasized in lecture and laboratory.

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.

## CHEM 4100 ADVANCED ORGANIC CHEMISTRY

Prerequisite: CHEM 2102 and CHEM 2102L
Prerequisite or corequisite: 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

Prerequisite or corequisite: CHEM 3402
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

Prerequisite: CHEM 3300
Prerequisite or corequisite: CHEM 3402
Advanced applications of spectrometric and chromatographic analyses.

## CHEM 4500 CHEMISTRY SEMINAR

Prerequisite or corequisite: CHEM 3402
Use of chemical journals, references, and electronic information sources. Includes a variety of oral and written assignments. Chemistry faculty involved in assessments.

## CHEM 4940 SPECIAL TOPICS IN CHEMISTRY

Prerequisite: announced with the topic, permission of department head
Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

## CHEM 4950 SPECIAL LECTURE TOPICS IN CHEMISTRY <br> V-0-(1-3)

Prerequisite: announced with the topic, permission of department head
Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

## CHEM 4960 INTERNSHIP

V-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 5600U CHEMICAL SAFETY

## 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 in CHEM 5700U may not be applied to the major field requirement in chemistry.)

## CLAS - Classics

CLAS 3351, -2, -3 STUDY ABROAD IN ROME AND ATHENS
9-0.9
Prerequisite: LATN 1002
An 8-9 week summer semester's residence and study in Rome and Athens in conjunction with the Studies Abroad Program of the University System of Georgia. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati, the student experiences first hand the reality of life in the ancient world. Crosslisted as LATN 3351, -2, -3.

## COMM-Communication

COMM 2280 SPEECH COMMUNICATION
3-0-3
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 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 1100 INTRODUCTION TO CRIMINAL JUSTICE
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 2010 UNIVERSAL JUSTICE

(2-3)-0-(2-3)
Critical juxtaposition of the justice ideal in actual practice in the U.S. and other countries. Development of universal justice construct rooted in the rule of law and applicable to terrorism, piracy, international criminal conspiracy, immigration, sanctuary, asylum, amnesty, and war crimes.

## CRJU 2020 ETHICAL THEORIES AND MORAL ISSUES IN

## CRIMINAL JUSTICE

3-0-3
Relationship between ethical theory and criminal justice policies and practices. Principal ethical theories of the western world and the application of these theories to the administration of justice in the United States. Ethical underpinnings of the crime control and due process models of justice.

## CRJU 2200 CRIMINAL INVESTIGATION

Prerequisite: eligibility for ENGL 1101
Investigative methodology focusing on techniques employed in criminal investigation, including crime scene searches, use of informants and surveillance. Presentation of police cases in court.

## CRJU 2210 INTRODUCTION TO LAW ENFORCEMENT

Prerequisite: CRJU 1100
History, philosophy, and basic objectives of the police system in the U.S. and Georgia. Emphasizes applications of the law for law enforcement officers.

## CRJU 2410 INTRODUCTION TO CORRECTIONS

Prerequisite: CRJU 1100
Analysis and evaluation of both historical and contemporary correctional systems. Development, organization operation, and results of the different correctional systems in the U.S.

## CRJU 2510 INTRODUCTION TO CRIMINAL LAW

Prerequisite: CRJU 1100
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 1100
Independent study and research on an approved topic, directed by a faculty member.

## CRJU 3100 RESEARCH METHODS

3-0-3
Prerequisite: ENGL 1101 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 3300 or permission of instructor
Critiques of American criminal justice theory and practice from alternative viewpoints.

## CRJU 3120 ILLEGAL IMMIGRATION

3-0-3
Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100
Political and legal aspects of immigration in a nation of immigrants. Emphasis on operational and bureaucratic impediments of enforcement of immigration laws.

## CRJU 3130 HATE CRIMES AND ORDERED LIBERTY

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

Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100
Crimes committed by and against the governments and officers of modern democratic states. Focus on criminal activity by government leaders acting in official capacity and on all illegal activities at all levels of government in the United States.

## CRJU 3300 CRIMINOLOGY

Prerequisite: CRJU 1010 and ENGL 1101
Nature and extent of crime in the U.S. Evaluation of factors leading to criminal behavior and measures proposed to control it.

## CRJU 3160 WHITE-COLLAR AND ORGANIZED CRIME

Prerequisite: CRJU 1100
Nature, scope, and impact of white collar, corporate, and organized crime on the individual and American society.

## CRJU 3170 CRIMINAL JUSTICE ADMINISTRATION

Prerequisite: CRJU 1100 and CRJU 2020
Survey of basic concepts and principles concerned with the administration and management of agencies within the criminal justice system. Emphasis will be placed on organizational structure, functions and behavioral processes.

## CRJU 3180 DEVIANCE AND SOCIAL CONTROL

3-0-3
Prerequisite: CRJU 1100 or SOCI 1101
Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological theories of deviance. Deviance and social control are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed as SOCI 3180.

CRJU 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
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
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 1100
Analysis and evaluation of both historical and contemporary correctional systems. Development, organization operation, and results of the different correctional systems in the U.S.

## CRJU 3410 COMMUNITY-BASED TREATMENT

3-0-3
Prerequisite: CRJU 2410 or permission of the instructor
Review of community-based treatment programs, emphasizing functions of halfway houses and use of volunteers in corrections.

Constitutional rights of the accused and the conflict of those rights with maintenance of public order and enforcement of criminal law.

## CRJU 3510 FAMILY VIOLENCE

Prerequisite: CRJU 1100 or SOCI 1101 or permission of 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

## Prerequisite: CRJU 1100

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 2410 or permission of instructor
Basic principles and practices of administration and their application to adult and juvenile corrections. Special emphasis upon organizational structure, planning, decision making, management strategies, and personnel management.

## CRJU 4500 ADVANCED LAW OF EVIDENCE

Epistemological assumptions and policy purposes of evidentiary rules, doctrines and concepts.

## CRJU 4510 ADVANCED CRIMINAL LAW

Prerequisite: CRJU 2510
Criminal law as social control within ordered liberty. Emphasizes economic and moral components of undergirding public policy.

## CRJU 4800 INTERNSHIP

0-40-12
Prerequisite: permission of instructor or department
Application of academic knowledge in criminal justice setting. Joint supervision by faculty internship coordinator and agency officials. Requires a substantial research paper.

## CRJU 4900 DIRECTED RESEARCH IN CRIMINAL JUSTICE

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

Prerequisite: CRJU 3100
Open to seniors. This course is an intensive study/seminar of selected criminal justice topics. Requirements include a comprehensive research paper with an oral presentation.

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

Theories of juvenile delinquency, emphasizing sociological, biological, and psychological factors. Modern trends in prevention and treatment.

## CRJU 5500U LAW AND LEGAL PROCESS

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of the legal process viewed from the perspectives of jurisprudence, political science, and sociology. Crosslisted as POLS 5500U.

## CRJU 5520U COMPARATIVE JUDICIAL SYSTEMS

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as POLS 5520U.

## CSCI-Computer Science

## CSCI 1050 INTRODUCTION TO COMPUTER CONCEPTS AND

 APPLICATIONSPrerequisite: MATH 1101 or MATH 1111
Study of hardware and software components of computers, and the impact of computers on society. Discussion of the capabilities and the limitations of computers, and the kinds of problems that are best solved by computers. Experience with using personal computer productivity tools to solve problems. Emphasis on the major uses of computers. Not designed for the computer science major. 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. Includes operating systems and application of standard tools to solve typical problems from science and engineering. Credit granted for only one of CSCI 1050, 1060, or 2060.

## CSCI 1150 FUNDAMENTALS OF THE INTERNET AND WORLD WIDE WEB

Topics covered include electronic mail, Internet service providers, text editing, basic UNIX programming, researching and publishing online, the Internet, the World Wide Web, searching the World Wide Web, telnet and FTP, HTML programming, web graphics, newsgroups, mailing lists, chat rooms, programming CGI scripts, multimedia, and privacy and security issues.

## CSCI 1201 INTRODUCTION TO UNIX

Prerequisite: MATH 1101 or MATH 1111
Thorough introduction to the UNIX operating system. UNIX commands, editors, documentation, and file system. Shells, rediredion, filters, pipes, and job control. Compile/edit/debug cycle under UNIX.

## CSCI 1301 INTRODUCTION TO PROGRAMMING PRINCIPLES

Prerequisite: MATH 1113
Overview of computers and programming. Fundamentals of structured computer programming; primitive data types, expressions, control statements, methods, recursion, arrays, searching, sorting; debugging techniques; introduction to algorithm analysis.

## CSCI 1301H HONORS INTRODUCTION TO PROGRAMMING PRINCIPLES

Prerequisite: MATH 1113 and either acceptance to honors program or permission of the instructor A more in-depth treatment of the topics covered in CSCI 1301, with extended examples from the natural sciences, mathematics, humanities and the research programs of the faculty of the School of Computing.

## CSCI 1302 ADVANCED PROGRAMMING PRINCIPLES

Prerequisite: CSCI 1301
Object-oriented programming including: inheritance, polymorphism, interfaces, graphical user interfaces and event-driven programming, exception handling, file input and output.

## CSCI 2060 COMPUTER LITERACY FOR EDUCATORS

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 INTRODUCTION TO COMPUTER ETHICS AND CYBERSECURITY

Study of ethical and security considerations for computer professionals and users. Topics include issues of privacy, intellectual property rights, and cybercrime.

## CSCI 2410 DATA STRUCTURES AND ALGORITHMS

Analysis of their time and space complexity. Implementation and analysis of efficient data structures (for example, linked lists, stacks, queues, hash tables, trees, graphs, and heaps) and algorithmic techniques (for example, dynamic, greedy, randomized, and approximation). Use of professional application programmer interfaces (API's).

## CSCI 3321 INTRODUCTION TO SOFTWARE ENGINEERING CONCEPTS

Prerequisite: CSCI 2410 and CSCI 3202 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

Prerequisite: CSCI 2490
Comparative study of programming languages including facilities for procedures, parameter passing and recursion, control structures, and storage allocation techniques. Methods of specifying syntax and semantics. Introduction to program translation.

## CSCI 3341 INTRODUCTION TO OPERATING SYSTEMS

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 3510 THEORY OF COMPUTATION

Prerequisite: permission of instructor or program coordinator
Practical study experiences in a variety of computing environments under the direction of faculty and appropriate off-campus supervisors.

CSCI 3990 PROGRAMMING SEMINAR
Prerequisite: CSCI 1302
Development of problem solving techniques in a team environment. (Designed for but not restricted to, programming contests.)

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 4990 SPECIAL TOPICS IN COMPUTER SCIENCE <br> V-V-(1-4)

Prerequisite: announced with the topic
Selected topics in some area of current interest in computer science. Possible areas include system simulation, graphics microcomputers, and theoretical computer science.

## CSCI 4999 INDEPENDENT STUDY

Prerequisite: permission of the instructor
CSCI 5210U PARALLEL COMPUTING
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 5220U NETWORKS

Prerequisite: CSCI 3202
Introduction to data communications and networking. Topics include communications media, codes, data transmission, multiplexing, protocols, layered networks.

## CSCI 5322U ADVANCED SOFTWARE ENGINEERING

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 5342U ADVANCED OPERATING SYSTEMS
Prerequisite: CSCI 3341and CSCI 2490
Case studies of UNIX (tm) and/or similar operating systems. Elementary knowledge of C/C++ required.

## CSCI 5343U SYSTEMS PROGRAMMING UNDER UNIX (tm)

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 5350U COMPILER THEORY

Programming language translation and basic compiler implementation techniques, formal grammars and languages, specification of syntax and semantics, lexical analysis; parsing, semantic processing. A major project encompassing some or all of these concepts.

## CSCI 5360U EMBEDDED SYSTEMS PROGRAMMING 3-0-3

Prerequisite: CSCI 3202 and CSCI 2490
Developing applications for embedded microprocessors including virtual machine architectures, data communications, time critical I/O, cross compiling, and debugging techniques.

## CSCI 5370U HANDHELD AND UBIQUITOUS COMPUTING

Prerequisite: CSCI 3202
Survey of personal digital assistants (PDA's) and ubiquitous computing hardware, operating systems, virtual machines, and API's. Development of PDA applications, cross compiling and hardware emulation, PDA GUI design, infra-red and wireless data communications, and desktop conduit developments.

Prerequisite: CSCI 2410 and CSCI 2620
Advanced techniques for designing and analyzing efficient algorithms for combinatorial, algebraic, and number-theoretic problems.

## CSCI 5520U RAPID JAVA APPLICATION DEVELOPMENT

Pattern matching and classification with an emphasis on developing applications using diverse machine learning methods, including decision trees, neural networks, clustering, and hidden Markov models. Includes a major project encompassing some or all of these concepts.

## CSCI 5830U COMPUTER GRAPHICS

3-0-3
Prerequisite: CSCI 2490
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.

## DHED-Dental Hygiene Education

DHED 3300 DENTAL HYGIENE RESEARCH $\mathbf{3 - 0 - 3}$
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 PATIENTS3-0-3
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 <br> 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 <br> HYGIENE EDUCATION II <br> 2-3-3 <br> 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.

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
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
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

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

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 1010 and BIOL 2081 and BIOL 2082 and BIOL 2275 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 AND EMERGENCY MANAGEMENT
2-0-2
Open to majors in dental hygiene. Drugs, 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.

Open to majors in dental hygiene. Nutrition and nutrition education as applied to the practice of dental hygiene.

## DHYG 2250 DENTAL PUBLIC HEALTH

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
Prerequisite: permission of instructor or department
Didactic and clinical component for updating knowledge of and skills in current dental hygiene practice.

## ECEG-Early ChildhoodEducation

ECEG 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.

## 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

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

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

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111
Develops methods and reasons for measuring aggregate economic activity in real and nominal terms, models the determination of national income, and considers fiscal and monetary policy alternatives and analyzes their implications. Problems associated with achieving and maintaining aggregate economic stability are discussed.

## ECON 2106 PRINCIPLES OF MICROECONOMICS

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111
Comprehensive coverage of individual market functioning, beginning with the concept of scarcity and the economizing problem and moving to supply and demand, is presented. The concept of elasticity is introduced and its measurement and interpretation in a variety of applications is demonstrated. The theories of consumer choice and the production-costs relationship are developed. Individual firm profit maximizing behavior is analyzed and applied to various demand conditions, market structures.

## ECON 3050 INTERMEDIATE MACROECONOMICS

3-0-3
Prerequisite: ECON 2105
Analysis of theories of national income determination and the factors affecting employment and price level are presented.

## ECON 3100 MULTINATIONAL ECONOMIC ENTERPRISES

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

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

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 3420 SPORTS ECONOMICS

Prerequisite: ECON 2106
Application of economic principles to the sports industry, including analysis of contract structure and performance, competitive balance in professional sports, college athletics and the NCAA, and market efficiency in labor and wagering markets.

## ECON 3450 ENVIRONMENTAL ECONOMICS

Prerequisite: ECON 2106
Economic analyses of pollution and pollution abatement policies, renewable and non-renewable natural resources, and equitable and efficient uses of environmental resources.

## ECON 3500 MANAGERIAL ECONOMICS

## Prerequisite: ECON 2106

Examination of economic theories used in decision making in the private sector including demand and elasticity, production and cost theory, pricing policies, linear programming, and capital budgeting.

## ECON 3600 MATHEMATICAL ECONOMICS

3-0-3
Prerequisite: ECON 2105 and ECON 3060 and either MATH 1161or MATH 1950
Examination of selected topics in economic theory using mathematics including development of portions of consumer and producer theory and static and dynamic models from macro theory and international finance.

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

Prerequisite: ECON 2105 and ECON 2106 and MATH 2200
Applied econometrics including parameter estimation, inference, hypothesis testing, and problems of designing econometric models.

Prerequisite: permission of department head, agreement by a faculty member to supervise research Open to juniors. Uncompensated research to be assigned and directed by an economics faculty member. Students will conduct research using methods appropriate to economics. Student research may include a literature search, field or laboratory observation or experimentation, data collection and analysis, and written and/or oral presentation of results. The research experience and results will be evaluated
by a committee of departmental faculty before and upon completion of the research. Credit will vary depending upon the work to be completed. Up to three (3) credit hours may be earned.

## ECON 4010, -20, -30 SPECIAL TOPICS IN ECONOMICS

3-0-3
Prerequisite for ECON 4010: ECON 2105; Prerequisite for ECON 4020: ECON 2106
Prerequisite for ECON 4030: ECON 2105, ECON 2106 and MATH 2200
Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.

## ECON 4100 FINANCIAL ECONOMICS: PORTFOLIO ANALYSIS

Study of the pricing of financial assets such as stocks and bonds, the characteristics of portfolios of financial assets, and the efficiency of financial markets. Practical applications of financial economics principles to the construction and management of portfolios of assets.

## ECON 4150 MONEY AND CAPITAL MARKETS

Prerequisite: ECON 2105 and ECON 2106
An examination of the role of money and financial institutions in the exchange process, the Federal Reserve's monetary policy strategy, and the impact of monetary policy on financial markets and aggregate economic activity.

## ECON 4310 INTERNATIONAL 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 <br> 3-0-3

Prerequisite: ECON 2105
Developing areas and their prospects for economic betterment and different theories of underdevelopment including import substitutions and export-led growth. Focus on problems presently facing the third world.

## ECON 4410 REGIONAL ECONOMICS

3-0-3
Prerequisite: ECON 2105 and ECON 2106
The economic structure, growth of regions, city locations, industrial locations, the short-run impact of industrial change upon employment, and long-run per capita income between regions.

## ECON 4450 INDUSTRIAL ORGANIZATION

Prerequisites: ECON 2106 and either MATH 1950 or MATH 1161
Examination of the organization and behavior of firms, including analysis of the structure of intra-firm and inter-firm contracts, strategic output and pricing decisions, and analysis of the structure of industries.

## ECON 4460 ECONOMIC ANALYSIS OF THE LAW

3-0-3
Prerequisite: ECON 2106
Efficacy of alternative legal arrangements using microeconomic analysis of the common law emphasizing property, contract, tort and criminal law. Topics include the economic basis for the establishment of property rights, ownership solutions to environmental problems, the efficacy of the contract process, and conditions under which breach of contract may be optimal.

## ECON 4500 PUBLIC FINANCE

Prerequisite: ECON 2105 and 2106
Application of economic principles to the study of the role of government. Emphasis on the reasons for and the effects of government intervention in the economy including market failure, public goods and externalities, public choice, and political equilibrium. Focus on taxation, public debt and cost benefit analysis, and some selected areas of public policy such as welfare, defense, and health care.

ECON 4520, -30, -40 INTERNSHIP
Prerequisite: permission of instructor or department head
Open to juniors or above. Applied economic setting using nonprofit agencies such as the Chamber of Commerce, as well as financial institutions and international businesses. Supervision by departmental instructors and agency officials. Students may use only one internship as part of their eight upperdivision economics classes. Open to transient students only with permission of department head.

## ECON 4550 PUBLIC CHOICE

Prerequisite: ECON 3060 or permission of instructor
Application of economic theory and methodology to the study of non-market (political, governmental and other collective) decision making. Causes and consequences of governmental growth, elections, the behavior of bureaucrats, competition among interest groups, and constitutional economics.

ECON 4900 ECONOMIC METHODS AND SENIOR THESIS
3-0-3
Prerequisite or corequisite: ECON 3050 and ECON 3060
Open to seniors. Review of the methods and tools of economic analysis culminating in an extensive research report which will be evaluated by a departmental or interdepartmental committee. Should be taken the last semester before graduation.

## ECON 5200U INTERNATIONAL TRADE <br> 3-0-3

The economic importance and problems of international trade, including theories of international trade, the gains from trade, tariffs, and non-tariff barrier to trade, U.S. commercial policy, Economic integration, and trade policies of developing countries.

ECON 5300U MONEY AND BANKING 3-0-3
The study of governmental and corporate finance, with emphasis on fiscal and monetary policy, openmarket operations, discount policy, and the functions and problems associated with central banking.

Survey of labor economics and labor relations, organization and operation of American trade unionism, collective bargaining, economics of the labor market, wage theory and income distribution are included.

## ECON 5630U ECONOMIC HISTORY OF THE UNITED STATES

3-0-3
The 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.

## ECUG-Early Childhood Education

ECUG 2000 PROFESSIONAL EDUCATOR
Prerequisite: CEUG 1010
Role of the teacher in modern society, overview of the history of education in the United States, current trends in educational theories and philosophies. Introduction for pre-service teachers to developmental, educational, certification, ethical, and legal requirements for educating P-5 students including those with disabilities as defined by state and federal legislation. Directed field experience required.

ECUG 3040 CHILDHOOD AND ADOLESCENCE
Comprehensive overview of developmental process from prenatal through adolescence. Directed field experience.

ECUG 3050 CURRICULUM AND METHODS P-5

Development of curricula and selection of instructional strategies and materials appropriate for P-5 level. Directed field experience.

ECUG 3060 LANGUAGE, LEARNING AND COGNITION 3-3-3
Prerequisite: admission to the College of Education and CEUG 1010 and CEUG 2100 and ECUG 2000 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 3-3-3
Prerequisite: admission to the College of Education and ECUG 2000 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

## Prerequisite: ECUG 3071

Developmental reading program with emphasis on reading skills, approaches, techniques, materials, and evaluation including directed field experiences.

## ECUG 3100 CONTEMPORARY SOCIAL ISSUES OF THE FAMILY

Prerequisite: admission to the College of Education and ECUG 2000 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

Prerequisite: admission to the College of Education and ECUG 2000 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 4070 SOCIAL STUDIES

Prerequisite: admission to the College of Education and ECUG 2000 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

Prerequisite: admission to the College of Education and ECUG 2000
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

Prerequisite: admission to the College of 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 <br> 2-V-6

Prerequisite: admission to the College of Education
Corequisite: ECUG 4110 and ECUG 4300
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 the College of Education
Corequisite: ECUG 4100 and ECUG 4300
Opportunities to use knowledge and skills in a supervised 3-5 public school setting.

## ECUG 4240 PRACTICUM IN INDIVIDUAL READING INSTRUCTION

Prerequisite: admission to the College of Education
Prerequisite 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 READING PROBLEMS
Prerequisite: ECUG 4090 and either CEUG 3072 or ECUG 3072
Corequisite: ECUG 4100 and ECUG 4110
Diagnostic and prescriptive principles underlying assessment and correction of learning problems. Directed field experience.

## ECUG 4811 INTERNSHIP I

Prerequisite: permission of instructor or department head
Supervision for one semester by college faculty of students who hold teaching positions in a school and/or clinical setting.

## ECUG 4812 INTERNSHIP II

0-V-6
Prerequisite: permission of instructor or department head
Supervision for one semester by college faculty of students who hold teaching positions in a school and/or clinical setting.

## EEXE-Education-Exceptional <br> EEXE 5100U EDUCATING STUDENTS WITH DISABILITIES IN THE GENERAL EDUCATION CLASSROOM <br> 1-2-3

Specific disabilities and the impact they have on learning. Strategies for academic modification, social skill development, and behavior change. Special education policies and procedures for regular educators. Class projects and/or practica tailored for the preservice teacher's academic discipline.

## 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
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
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
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

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

Prerequisite: ENGL 1101 with a grade of C or better
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

## 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

2-0-2
Prerequisite: ENGL 1102 or ENGL 1102H
Examination of ethical issues and human values in the context of selected literary works. Topics may include moral relativism and absolutism; ethical encounters with suffering; meanings and descriptions of evil; models of character and virtue; the role and relation of motivation and behavior to morality.

## ENGL 2100 LITERATURE AND HUMANITIES

3-0-3
Prerequisite: ENGL 1102 or ENGL 1102H
Examination of literature as an expression of the humanities through study of several complete works from at least two historical periods, two genres, and two cultures/countries. Includes an essay or project involving documentation.

## ENGL 2100H HONORS LITERATURE AND HUMANITIES

3-0-3
Prerequisite: acceptance in honors program
Advanced reading of and writing about literary texts; fulfillment of all ENGL 2100 requirements at a higher level of achievement. Recommendation of English instructor and approval of department head based on a minimum final grade of B in ENGL 1102 or ENGL 1102H.

ENGL 2121 BRITISH LITERATURE I
Prerequisite: ENGL 2100 or permission of department head
A survey of important works of British literature from the Old English period through the neoclassical age.

ENGL 2122 BRITISH LITERATURE II
3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of important works of British literature from the romantic era to the present.

## ENGL 2131 AMERICAN LITERATURE I

3-0-3
Prerequisite: ENGL 2100 or permission of department head
A survey of American literature from the pre-colonial age to the mid-nineteenth century.
ENGL 2132 AMERICAN LITERATURE II
Prerequisite: ENGL 2100 or permission of department head
A survey of American literature from the mid-nineteenth century to the present.

## ENGL 3010 INTRODUCTION TO LITERARY STUDIES

Prerequisite: ENGL 2100 or permission of department head
Vocabulary and approaches of modern literary criticism, reading and interpretation of literary texts, and the tools of literary research and writing.

## ENGL 3020 INTRODUCTION TO COMPOSITION STUDIES

3-0-3
Prerequisite: ENGL 2100 or permission of department head
Application of theories to the teaching of composition. Devising assignments, conducting class sessions, writing essays, and responding to academic writing.

ENGL 3700 INTRODUCTION TO COMMUNICATIONS
3-0-3
Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251
Survey of the profession, designed to familiarize majors with the history of communications as a profession, to introduce them to the number and variety of careers available to communicators, and to suggest methods of career planning.

## ENGL 3720 BUSINESS AND TECHNICAL COMMUNICATION

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

Prerequisite: ENGL 2100 or permission of department head
Advanced study of expository and argumentative techniques. Crosslisted as LING 4700.
ENGL 4740 CREATIVE WRITING (POETRY)
Prerequisite: ENGL 2100 or permission of department head
Workshop format. Critique of poems by other students and professor through written statement and class discussion. Relevant textbook.

## ENGL 4750 CREATIVE WRITING (FICTION)

Prerequisite: ENGL 2100 or permission of department head
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 or permission of department head
Open to seniors. To be determined by student and professor. Available to transient students only with approval of the department head.

ENGL 4990 INTERNSHIP
V-0-(1-9)
Prerequisite: 2.5 grade point average; supervisory staff member; recommendation of the department head.
Open to juniors and above. Offered by special arrangement. Repeatable up to a maximum of nine credit hours. Off-campus study, work and/or research, jointly supervised by sponsoring institution and staff member. Nine hours credit requires forty hours a week at sponsoring institution, 6 hours credit requires twenty-five hours, 3 hours credit requires fifteen hours.

ENGL 5000U SPECIAL TOPIC
3-0-3
Prerequisite: ENGL 2100 or permission of department head Subject announced when course is offered.

## ENGL 5215U LITERATURE OF THE NON-WESTERN WORLD

Prerequisite: ENGL 2100 or permission of department head
Explorations of literatures outside or at the margin of Western literary traditions. The course is topical, and not limited by specific cultural, generic, or linguistic boundaries. Sample topics might include TriContinentialism, The Novel in World Literature, Africa and the Atlantic Rim, Postcolonialism, The Epic Tradition, The Trickster in World Literature, or the Classic Chinese Novel. This course may be repeated with different topics.

Prerequisite: ENGL 2100 or permission of department head
Examination of the Western literary canon, exclusive of works originally written in English, through extended reading of Homer, Dante, Cervantes, Goethe, Dostoyevsky, and Proust, focusing on the linguistic, formal, cultural, and historical context that shaped them.

## ENGL 5315U 17TH AND 18TH CENTURY AMERICAN LITERATURE

An examination of the responses of American novelists, poets, and prose writers to the issues of these centuries, with attention to characteristic themes, genres, and stylistic features.

## ENGL 5335U 20TH CENTURY AMERICAN LITERATURE

## Prerequisite: ENGL 2100 or permission of department head

An examination of the responses of American novelists, poets, and prose writers to the issues of this century, with attention to characteristic themes, genres, and stylistic features.

## ENGL 5340U LITERATURE BY WOMEN

Prerequisite: ENGL 2100 or permission of department head
Exploration of literature written by women within its social, historical, and theoretical contexts. Topics such as renaissance and medieval women writers, nineteenth century novels by women, feminist theory and criticism, contemporary poetry by women.

## ENGL 5350U AFRICAN AMERICAN LITERATURE

3-0-3
Prerequisite: ENGL 2100 or permission of department head
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 5380U SOUTHERN LITERATURE

Prerequisite: ENGL 2100 or permission of department head
Southern literature in its distinctive social and aesthetic contexts.

## ENGL 5415U THE NOVEL

Prerequisite: ENGL 2100 or permission of department head
An exploration of the origins and development of the novel as a distinct literary form, examining the aesthetic, philosophical, and social concerns that inform selected works from the eighteenth, nineteenth, and twentieth centuries. The course may focus primarily on the American or the British novel, or it may integrate the two through a specific thematic focus.

## ENGL 5425U AMERICAN/BRITISH POETRY

3-0-3
Prerequisite: ENGL 2100 or permission of department head
American and/or British poetry in the context of technological developments, philosophical movements, and literary currents. Exploration of forms and themes with emphasis on prosody and interpretation.

## ENGL 5435U TOPICS IN DRAMA

3-0-3
Prerequisite: ENGL 2100 or permission of department head
Study of a selected topic in English, American, or World dramatic literature. May be repeated as topics vary.

## ENGL 5440U EARLY ENGLISH LITERATURE

3-0-3
Prerequisite: ENGL 2100 or permission of department head
English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as LING 5440U.

## ENGL 5455U SHAKESPEARE

3-0-3
Prerequisite: ENGL 2100 or permission of department head
A selection of Shakespeare's tragedies, comedies, and history plays illustrating representative themes and literary techniques of the dramatist, as well as his links to contemporary issues of his day.

## ENGL 5445U CHAUCER

3-0-3
Prerequisite: ENGL 2100 or permission of department head
Chaucer's two masterpieces, The Canterbury Tales and Troilus and Criseyde, and minor poetry. Includes indepth study of Chaucer's culture, context, and language. Crosslisted as LING 5465U.

## ENGL 5480U LITERATURE OF THE ENGLISH RENAISSANCE

A selection of representative literary works from the period 1485-1689. Typical topics include the rise of the sonnet, the Metaphysical and Neoclassical poetic schools, the growth of English prose, and non-Shakespearean drama.

## ENGL 5485U MILTON

Prerequisite: ENGL 2100 or permission of department head
Study of Milton's early lyric poetry, Paradise Lost, Samson Agonistes, Areopagitica, and the divorce and monarchy tracts.

## ENGL 5500U 18TH CENTURY BRITISH POETRY AND PROSE

Prerequisite: ENGL 2100 or permission of department head
British poetry and prose from 1690 to 1784 , with an emphasis on the philosophic and aesthetic concerns of the age. Authors include but are not limited to Swift, Pope, Johnson, and Fielding.

## ENGL 5525U 19TH CENTURY BRITISH POETRY AND PROSE

Prerequisite: ENGL 2100 or permission of department head
The literary culture of the nineteenth century, including examinations of the works and contexts of the major figures in Romantic and Victorian literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. Exploration of the conflicts between science and religion, faith in "progress" and the growth of industrialism, the rights of the individual and of society, and the role of the artist.

## ENGL 5535U 20TH CENTURY BRITISH POETRY AND PROSE

3-0-3
Prerequisite: ENGL 2100 or permission of department head
The literary culture of the twentieth century, including examinations of the works and contexts of the major figures in modern and contemporary literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. These writers will be examined within the context of continental developments, the World Wars, and the post-war period. The literary traditions and cultural movements of the century will be explored.

ENGL 5550U CONTEMPORARY LITERATURE
Prerequisite: ENGL 2100 or permission of department head
Fiction and/or poetry since World War II as it relates to literary traditions and cultural movements; topics possibly including postmodernist fiction, ethnic writers, confessional poetry.

ENGL 5610U MAJOR AUTHOR
Prerequisite: ENGL 2100 or permission of department head
Subject is announced when the course is offered.

## ENGL 5730U RHETORIC

Prerequisite: ENGL 2100 or permission of department head
History of rhetoric from Aristotle to the present with emphasis on rhetorical analysis of literature and other forms of discourse.

## ENGL 5740U TECHNICAL EDITING

Techniques for editing technical publications including all levels of edit, document management, and collaboration with writers.

## ENGL 5750U PUBLICATION DESIGN

Techniques for preparing documents from development to publication.

## ENGL 5800U ADVANCED GRAMMAR

Prerequisite: ENGL 2100 or permission of department head
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 or permission of department head
English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to modern English. Phonetic, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as LING 5820 U

## ENGL 5815U LITERARY THEORY

Prerequisite: ENGL 3010 (senior standing strongly recommended)
Introduction to the major currents and models in modern critical and literary theory, their basic concepts, philosophical assumptions, historical and ideological contexts, and applications.

## ENGL 5990U SENIOR CAPSTONE SEMINAR

3-0-3
Capstone course required of English majors. Engages students in advanced critical analysis. Requires students to reflect on their process of study. Preparation, revision, and oral presentation of an original research project. Must be taken within 30 hours of graduation.

## ENGR-Engineering

## ENGR 1100 INTRODUCTION TO ENGINEERING

## Prerequisite: MATH 1111

Orientation to the engineering process from problem formulation to the evolution of creative design. Surveys of the various fields of engineering, professional ethics, problem solving, graphical communication, fundamental concepts of engineering, and the use of software applications for technical reports, computing, and engineering design.

## ENGR 1170 ENGINEERING GRAPHICS

2-3-3
Prerequisite: MATH 1113
Introduction to engineering graphics and visualization including sketching, line drawing, simple wireframe and solid modeling. Development and interpretation of drawings and specifications for product realization.

ENGR 2000 INTRODUCTION TO ENGINEERING MATERIALS
3-0-3
Prerequisite: CHEM 1211 and PHYS 2212
The structure, property, processing, and performance relationships of engineering materials. Materials selection is treated as part of engineering design.

ENGR 2010 COMPUTATIONAL MODELING (Computing Techniques)
Prerequisites: MATH 2072 and PHYS 2211and either CSCI 1060 or CSCI 1301
Fundamentals of numerical methods and development of programming techniques for solving engineering problems via computers.

ENGR 2020 ENGINEERING MECHANICS: STATICS AND DYNAMICS
Prerequisite: PHYS 2211 and MATH 2072
Elements of statics in two and three dimensions, centroids, friction, kinematics and kinetics of rigid bodies in plane motion.

ENGR 2025 INTRODUCTION TO SIGNAL PROCESSING
3-3-4
Prerequisites: CSCI 1302 and MATH 2072
Introduction to signal processing for discrete-time and continuous-time signals, filtering, frequency response, Fourier transform, Z transform. Laboratory emphasizes computer-based signal processing

## ENGR 2031 DIGITAL DESIGN LABORATORY

## Prerequisite: ENGR 2030

Design and implementation of digital systems, including a team design project. CAD tools, project design methodologies, logic synthesis, and assembly language programming.

## ENGR 2110 CREATIVE DECISIONS AND DESIGN

Prerequisite: ENGR 1170
Prerequisite or co-requisite: ENGR 2201
Fundamental techniques for creating, analyzing, synthesizing, and implementing design solutions to open ended problems with flexibility, adaptability, and creativity through team and individual efforts.

## ENGR 2201 INTRODUCTION TO MECHANICS

Prerequisite: PHYS 2211
Prerequisite or corequisite: MATH 2083
Forces and moments; equilibrium in two and three dimensions; multiforce members; friction, stress, and strain; axially loaded members, torsion, and bending of beams.

ENGR 2202 DYNAMICS
Prerequisite: ENGR 2020 or ENGR 2201
Kinematics and dynamics of particles and rigid bodies in one, two, and three dimensions. Work-energy and impulse momentum concepts.

## ENGR 2990 TOPICS IN ENGINEERING

Prerequisite: announced with the topic
Special topics at freshman and sophomore level of current interest in engineering.

## ENGR 3000 CIVIL ENGINEERING SYSTEMS

Prerequisite: MATH 2083
Infrastructure viewed from a systems perspective, analytical approaches and modeling of civil engineered facilities, sustainability, engineering economy applications.

ENGR 3100 CIRCUIT ANALYSIS
3-0-3
Prerequisite: ENGR 2025 and PHYS 2212
Prerequisite or corequisite: MATH 3411
Basic concepts of DC and AC circuit theory and analysis.
ENGR 3111 ELECTRONICS I
4-0-4
Prerequisite: ENGR 2030 and ENGR 3100
Basic concepts of microelectronic materials, devices, and circuits.

## ENGR 3220 MECHANICS OF MATERIALS

Prerequisite: ENGR 2020 or ENGR 2201
Stress and strain, axially loaded members, torsion of circular sections, bending of beams, transformation of stress and strain, thin-walled pressure vessels and column buckling.

## ENGR 3230 FLUID MECHANICS

Prerequisite: ENGR 2020 or ENGR 2202
The fundamentals of fluid mechanics. Topics include: fluid statics, control-volume analysis, the NavierStokes equations, similitude, viscous, inviscid and turbulent flows, boundary layers.

## ENGR 3320 HEAT TRANSFER

Introduction to the study of heat transfer, transport coefficients, steady state conduction, transient conduction, radiative heat transfer, and forced and natural convection.

## ENGR 3700 ENGINEERING ECONOMIC ANALYSIS

## Prerequisite: MATH 1161

Fundamental principles of basic techniques of economic analysis of engineering projects including economic measure of effectiveness; time value of money, cost estimation, break-even and replacement analysis.

## ENGR 3710 CIRCUITS AND ELECTRONICS

Prerequisite: PHYS 2212
An introduction to electric circuit elements and electronic devices, and a study of circuits containing such devices. Both analog and digital systems are considered.

## ENGR 3770 STATISTICS AND APPLICATIONS

Prerequisite: MATH 2083
Introduction to probability, probability distributions, point estimation, confidence integrals, hypothesis testing, linear regression, and analysis of variance.

## ENGR 3960 ENGINEERING INTERNSHIP

V-V-(1-4)

Prerequisite: permission of instructor or program coordinator
Practical study experiences in a variety of engineering environments under the direction of faculty and appropriate off-campus supervisors.

## ENGR 4990 TOPICS IN ENGINEERING

V-V-(1-4)
Prerequisites: announced with the topic
Special topics at junior and senior level of current interest in engineering.

## ENGR 4999 INDEPENDENT STUDY

V-V-(1-4)
Prerequisites: permission of the instructor

## ETHC-Ethics

ETHC 2000 INTERDISCIPLINARY ETHICS AND VALUES
Prerequisite: ENGL 1101
An interdisciplinary examination of the relation between ethical theory and moral practice in specific areas of our society. This course involves several modules taught by different professors: the first philosophical framework module will provide an explanation and analysis of the principal ethical theories of the western world and subsequent modules will focus on moral issues and case studies in specified areas.

## EURO-EuropeanStudies

EURO 2000 EUROPEAN UNION 3-0-3
Prerequisite: ENGL 1101 and either HIST 1111 or HIST 1112
An interdisciplinary course that focuses on the creation and functioning of the European Union and its impact on the United States and the rest of the world.

## FILM-Film

FILM 3400 HISTORY OF FILM
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 3500 INTRODUCTION TO FILM
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 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 5025U CRITICAL APPROACHES TO FILM, TELEVISION AND POPULAR CULTURE
Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251
Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression, such as film, television, popular literature, magazines, and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism, and cultural studies. In alternate years, the course will be devoted in particular to film, television, or popular culture studies.

FILM 5510U 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 5510.

## FOUN - Education Foundations

FOUN 5010U EDUCATIONAL TESTS AND MEASUREMENT
3-0-3
Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

## FOUN 5400U ISSUES AND PRACTICES FOR TEACHING IN HIGH NEEDS SCHOOLS

3-0-3
Prerequisite: none
An examination of the complexities of teaching in schools with high incidence of free and reduced lunches. Topics will address those conditions and experiences found in these schools. Field experience required.

## 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 Frenchspeaking world.

## FREN 1002 ELEMENTARY FRENCH II

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
Emphasis on Francophone culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

## FREN 2002 INTERMEDIATE FRENCH II

3-0-3
Prerequisite: eligibility for ENGL 1101 and FREN 2001
Continuation of FREN 2001. Promotion of further awareness of Francophone culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

## FREN 3010 FRENCH CONVERSATION AND COMPOSITION I: CULTURE

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

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

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

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

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

Prerequisite: FREN 3200
French Literature. Subject announced at time of course offering.

## FREN 4900 INDEPENDENT STUDY

Prerequisite: FREN 3200
Open to transient students only with permission of the department head.

## FREN 4990 LANGUAGE INTERNSHIP

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 2120 CULTURAL GEOGRAPHY

3-0-3

## Prerequisite: GEOG 1100 recommended

Topics include the concept of culture, population settlement patterns, technological origins and diffusions, types of economies, and the relationship of man to his environment, with emphasis given to the process of cultural change through time and place. GEOG1100 recommended.

## GEOG 3111 PHYSICAL GEOGRAPHY

3-0-3
Prerequisite: GEOG 1100 or GEOG 2120
Topics covered include earth-sun relationships, weather, climate and climate classification, soils, biogeography, vegetation, and landforms with emphasis on global patterns of distribution.

## GEOG 5530U ENVIRONMENTAL GEOGRAPHY

3-0-3
Prerequisite: GEOG 1100 or GEOG 2120
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 5550U GEOGRAPHY OF SOUTH ASIA

Prerequisite: HIST 1111 or HIST 1112
An historical survey of the physical, cultural, and economic geography of the Indian subcontinent.

## GEOG 5870U HISTORICAL GEOGRAPHY IN NORTH AMERICA

Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor 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
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 2010H HONORS PHYSICAL GEOLOGY
Prerequisite: eligibility for MATH 1111
Introduction to earth materials and their characteristics; investigation of the processes that effect change on Earth's materials and landscapes over the long span of geologic time; study of changes in natural systems to restore equilibrium and examination of characteristics of natural hazards in order to minimize human risks. Applications of physical geology emphasized through lab investigations and all-day field trip activities to mines, quarries and landscapes of significant importance. A more in-depth treatment of the topics covered in GEOL 2010.

## GEOL 3100 INTRODUCTION TO HISTORICAL GEOLOGY

3-0-3
Prerequisite: eligibility for MATH 1111
History of the earth. Determining geologic time, the history of life as revealed in the fossil record, reconstructing a chronology of events from associated rock bodies.

## GERO-Health Science Gerontology

GERO 5500U SURVEY OF GERONTOLOGY $\mathbf{3 - 0 - 3}$
Introduction to the emotional, physiological, and social changes associated with the aging process and their effects on health.

## GERO 5510U HEALTHY AGING

3-0-3
Principles of holistic aging: spiritual, social, emotional, occupational, physical, and motivational needs of the elderly.

## GERO 5520U GERONTOLOGY PRACTICUM

V-V-3
Prerequisite: permission of instructor or department
Practical experience tailored to the student's interest in collaboration with a faculty member and qualified site supervisor.

## GRMN-German

GRMN 1001 ELEMENTARY GERMAN I
3-0-3
Prerequisite: eligibility for ENGL 1101
Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

## GRMN 1002 ELEMENTARY GERMAN II

3-0-3
Prerequisite: eligibility for ENGL 1101 and GRMN 1001
Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

## GRMN 2001 INTERMEDIATE GERMAN I

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 $\mathbf{3 - 0 - 3}$
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 <br> HIST 1100 POLITICAL HISTORY OF AMERICA AND GEORGIA <br> Prerequisite: eligibility for ENGL 1101 <br> 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. <br> <br> HIST 1111 CIVILIZATION I <br> <br> HIST 1111 CIVILIZATION I <br> Prerequisite: eligibility for ENGL 1101 <br> 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

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

Prerequisite or corequisite: ENGL 1101
Selected issues in ethics and values considered from a historical perspective. Topics may include ethics and values in western and/or non-western cultures, the relationship of the good of the citizen to that of the state, family relationships and values, environment and bio-ethics, world view and ethnocentrism.

## HIST 2100 THE AFRICAN DIASPORA

Prerequisite: ENGL 1101
Historical overview of the origins of humanity in Africa and the subsequent spread of African peoples around the world.

HIST 2111 HISTORY OF AMERICA TO 1877
3-0-3
Prerequisite or corequisite: ENGL 1101
A survey of American and United States history from the pre-Columbian period through the Civil War and reconstruction.

HIST 2112 HISTORY OF AMERICA SINCE 1865

HIST 3150 HISTORY OF AFRICA<br>Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H A survey of African history.

HIST 3200 TRADITIONAL CHINA
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
History of Chinese civilization from ancient times to the early nineteenth century, with emphasis on its characteristic political, social, economic, and cultural developments.

## HIST 3210 MODERN CHINA

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
History of China from the nineteenth century to the present, with emphasis on political, social, economic, and intellectual developments.

HIST 3220 HISTORY OF JAPAN
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
History of Japan from earliest times to present, with primary emphasis on its emergence as a world power since the late nineteenth century.

HIST 3230 HISTORY OF THE MIDDLE EAST
Prerequisites: HIST 1100 or POLS 1100 and HIST 1111 or HIST 1112 or HIST 1112H
Middle eastern history and Islamic culture and civilization from Muhammad to the present. Emphasis on the background of current issues and conflicts in the region.

HIST 3300 MODERN RUSSIA
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112 H
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

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112 H
French history from the reign of Louis XIV to the eve of the French Revolution.
HIST 3330 MODERN GERMANY
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112 H
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
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112 H
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 3440 EUROPE IN THE MIDDLE AGES

3-0-3
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
Survey of major political, economic, and cultural developments from 300-1400.

A study of major political, cultural, economic, and religious developments in Europe from 1400-1648.

## HIST 3490 EUROPE IN THE 20TH CENTURY

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
Major developments in Europe since 1900.

## HIST 3500 FOUNDATIONS OF HISTORICAL STUDIES

Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H
Topics based course in which students deal with different types of historical material to develop skills in research, writing, critical thinking, oral presentation, and the use of computers, as appropriate to the discipline of history. Topics will vary.

## HIST 3570 AMERICAN MILITARY HISTORY <br> 3-0-3

Prerequisites: HIST 1100 or POLS 1100
History of warfare and military technique in their social, economic, and political contexts, with emphasis on the American military traditions.

## HIST 3630 ECONOMIC HISTORY OF THE U.S.

3-0-3
Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance. Crosslisted as ECON 3630.

## HIST 3640 AMERICAN SOCIAL HISTORY

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
An examination of American social patterns. Topics may include economics, demographics, immigration, gender, politics, and religion.

## HIST 3710 COLONIAL AND REVOLUTIONARY AMERICA

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor
Discoveries of the new world and the settlement and growth of the English colonies of North America, triumph over France in the new world, the drastic change in British colonial policy and the rise of the American opposition to it, the achievement of independence, and the establishment of the United States under the constitution.

HIST 3730 JACKSONIAN AMERICA (1815-1848)
3-0-3
Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor
United States history between 1815 and 1848 with attention to economic, political, social, and intellectual developments. Topics include the growth of a more democratic political culture; the market revolution and the commercialization of society; mass immigration and labor; revivalism, reform, manifest destiny, and the beginnings of modern American culture.

## HIST 3740 WOMEN IN AMERICAN HISTORY

3-0-3
Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Examination of the changing political, social, and economic roles of American women from the colonial times to the present. Emphasis on the pre-Civil War feminist reform movements, women's broader social and economic roles after the war, increased awareness of the need for political power, the mid-twentieth century revolution, and the particular experiences of southern women.

HIST 3750 CIVIL WAR AND RECONSTRUCTION $\mathbf{3 - 0 - 3}$
Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor Causes and significance of the American Civil War, with substantial consideration of military campaigns; political, economic, and social aspects of reconstruction.

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 3780 POLITICAL PARTIES AND POLITICAL CULTURE <br> IN 20TH CENTURY AMERICA

Prerequisites: HIST 1100 or POLS 1100 or HIST 2112
Emergence of modern political parties in the United States from 1896 through the 1970s. Topics include gilded age politics and the urban political machine; the progressive presidents; FDR, the New Deal, and World War II; cold war politics; Lyndon Johnson and the Great Society; the war in Vietnam; the Nixon years.

HIST 3790 U.S. HISTORY SINCE 1960
Prerequisites: HIST 1100 or POLS 1100 or HIST 2112
Examination of the society of the United States since 1960, with special emphasis given to the major social and cultural trends.

## HIST 3800 INTRODUCTION TO PUBLIC HISTORY

Prerequisites: any history course
An introduction to the basic historiographic and anthropological approaches used in public history and a survey of the different disciplines such as archaeology, architecture, folklife, decorative arts, museum studies, and preservation which comprise public history.

## HIST 3820 INTRODUCTION TO ARCHAEOLOGY

Survey of archaeology using cross-cultural examples. Focus on history, basic techniques, concepts, theories, and types of research. Crosslisted as ANTH 3820.

HIST 3900 AFRICAN-AMERICAN HISTORY TO 1865
3-0-3
Prerequisites: HIST 1100 or POLS 1100
Introduction to West African cultural antecedents, attempts at acculturation of Africans into EuroAmerican culture, the resiliency of African traditions, the dynamics of family and community, the abolition of slavery, and the struggle for equality.

## HIST 3990 FIELDWORK IN HISTORY

V-V-(1-3)
Prerequisite: permission of instructor or department
Field-trip based courses or extended site visits, abroad or in the United States. Research, reading, and written assignment tailored to the specific nature of each study tour or site visitation. (Specific area of study indicated on transcript.) Course may be repeated as topics vary, but no more than five hours counted among the 40 hours required for the major in history. Offered only by special advance arrangement with department.

## HIST 3991 INTERNSHIP

V-V-(1-3)
Prerequisite: permission of instructor or department
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. Student must have at least nine hours of history courses with a history grade point average of 3.0. Only three hours or internship (either HIST 3991 or HIST 3992) may be counted for the major. Application and credit arrangements must be made through the department by mid-semester preceding the internship.

## HIST 3992 INTERNSHIP

Prerequisite: permission of instructor or department
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 a satisfactory/unsatisfactory (S/U) basis. Student must have at least nine hours of history courses with a history grade point average of 3.0. Only three hours or internship (either HIST 3991 or HIST 3992) may be counted for the major. Application and credit arrangements must be made through the department by mid-semester preceding the internship.

## HIST 4500 RESEARCH SEMINAR IN HISTORICAL METHODS

## Prerequisite: HIST 3500

Advanced study of the nature and methods of historical research, treating problems of investigation, organization, and formal writing. Requires a major research paper using primary sources.

## HIST 4811, -12 INDEPENDENT STUDY IN NON-WESTERN HISTORY <br> 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, $\mathbf{- 3 2}$ INDEPENDENT STUDY IN EUROPEAN HISTORY $\mathbf{3 - 0 - 3}$
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

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.

## HIST 4900 SEMINAR IN NON-WESTERN HISTORY 3-0-3

Prerequisite: HIST 3500
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 3500
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 3500
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

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 ( $\mathrm{S} / \mathrm{U}$ ) 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

Prerequisites: HIST 3500 or permission of instructor
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
Prerequisites: HIST 3500 or permission of instructor
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 <br> 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 5100U TOPICS IN LATIN AMERICAN HISTORY

Prerequisite: HIST 1111 or HIST 1112 or permission of instructor
Detailed analysis of a specific problem, theme, or topic in Latin American history. May be repeated as topics vary.

## HIST 5200U TOPICS IN AFRICAN HISTORY

 3-0-3Topics in the history of Africa, including political, economic, social, religious, and/or cultural trends as defined by the instructor. May be repeated as topics vary.

## HIST 5300U HISTORY OF RUSSIAN AND SOVIET FOREIGN POLICY

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
Examination of topics of Russian and soviet foreign policy from the end of the tsarist period to the present. Analysis of the effect on the international system of the collapse of the Soviet Union and the place of Russia in the world today.

## HIST 5450U TOPICS IN MEDIEVAL HISTORY

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
Study of a topic in medieval history such as the crusades, Byzantine history, or other medieval subjects based on available primary source material. May be repeated as topics vary.

## HIST 5470U FRENCH REVOLUTION AND NAPOLEON <br> 3-0-3

Prerequisites: HIST 1112 or HIST 3500 or permission of instructor
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
Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H
Selected topics in European history. May be repeated as topics vary.

## HIST 5500U TOPICS IN BRITISH HISTORY

3-0-3
Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor
Selected topics in the history of Great Britain and Ireland. May be repeated as topics vary.

## HIST 5540U TOPICS IN U.S. FOREIGN RELATIONS

Prerequisites: HIST 1100 or POLS 1100
Study of American objectives and policies in foreign affairs. May be repeated as topics vary.

## HIST 5560U TOPICS IN THE HISTORY OF GEORGIA

Prerequisites: HIST 3500 or permission of instructor
Topics in the history of Georgia with emphasis on political, economic, social, religious, and cultural trends in the context of the south and the nation.

HIST 5565U TOPICS IN THE HISTORY OF AMERICAN REFORM $\mathbf{3 - 0 - 3}$
Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics in the history of American reform emphasizing the evolution of social policy as it applies to class, gender, ethnicity, and religion. May be repeated as topics vary.

## HIST 5570U TOPICS IN THE HISTORY OF THE AMERICAN SOUTH <br> 3-0-3

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics including economic, cultural, social, and political history of the south with emphasis on those factors that made the south a unique section of the nation.

## HIST 5640U TOPICS IN THE HISTORY OF TECHNOLOGY AND CULTURE <br> 3-0-3

Prerequisites: any history course
Examination of developments in the history of technology, emphasizing relationships among European and American technologies, societies, and cultures. May be used for European or American history credit, depending upon the emphasis of the course.

## HIST 5650U TOPICS IN AFRICAN-AMERICAN HISTORY

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112
Topics in the history of African-American people emphasizing their social, economic, political, and regional experiences. May be repeated for credit as topics vary.

## HIST 5660U TOPICS IN THE HISTORY OF WOMEN AND GENDER

Prerequisites: one course in American history at 2000 level or above or permission of instructor Selected topics in the history of women offering analysis and synthesis, which address the large context of gender definition(s) and gender relations. May be repeated when topics vary.

HIST 5690U TOPICS IN AMERICAN CULTURE
Prerequisites: one course in American history at 2000 level or above or permission of instructor Selected topics in the history of American thought, values, and culture. May be repeated as topics vary.

## HIST 5700U AMERICAN MATERIAL CULTURE

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.

## HIST 5720U HISTORICAL ARCHAEOLOGY

Prerequisite: HIST 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.

HIST 5730U FIELDWORK IN HISTORICAL ARCHAEOLOGY
V-V-(1-6)
Prerequisite: HIST 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.

## HIST 5740U PRACTICUM IN ARCHAEOLOGY

V-V-(1-6)
Prerequisite: HIST 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.

## HIST 5750U FOLKLIFE

Prerequisites: HIST 2111 or HIST 2112
The study of the creation and persistence of tradition in societies and of the process of change as demonstrated in such aspects as narrative, music, song, celebration, festival, belief, and material culture. Emphasis on understanding the multi-ethnic nature of the traditions in American life.

## HIST 5770U ORAL HISTORY

Prerequisites: HIST 3500 or permission of instructor
The study of how to prepare and conduct oral history interviews; how to transcribe, log, and index oral history recordings; and how to use oral history collections in writing research papers.

## HIST 5810U TOPICS IN ARCHITECTURAL HISTORY

2-1-3
Prerequisite: any history course
Selected topics in architectural history, including various styles of architecture (Georgian, federal, neoclassical, eclectic, and modern), and vernacular architecture. Recording techniques, research strategies, theoretical approaches, landscape architecture, field trips, and visiting lecturers. May be repeated as topics vary.

## HIST 5830U HISTORIC PRESERVATION

3-0-3
Prerequisite: HIST4500 recommended
Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics.

## HIST 5850U MUSEUM STUDIES

2-2-3
Prerequisites: HIST 3500 or permission of instructor
Development of museums in the United States and of the ethics and practices of the museum profession, to include collections management, planning, outreach, and public education.

## HIST 5870U HERITAGE TOURISM

3-0-3
Prerequisites: HIST 3500 or permission of instructor
History of tourism, with emphasis on heritage and tourism, and of the function and impact of tourism on guest and host societies. Aspects of the modern tourist industry and its products, such as promotional and travel literature, accommodations and transport, and tourist arts also investigated.

HIST 5890U TOPICS IN PUBLIC HISTORY
V-V-(1-3)
Prerequisites: HIST 3500 or permission of instructor
Special topic in the field of public history defined by the instructor. Taught as a colloquium or seminar.
HIST 5940U FIELDWORK IN HISTORY
V-V-(1-3)
Prerequisite: permission of instructor or department
Field-trip based and/or engagement in extended site visits, whether abroad or in the United States. Research, reading, and written assignments tailored to the specific nature of each study tour or site visitation. Specific area of study indicated on student transcript. Course may be repeated for credit as topics vary, but no more than three hours counted among the 33 hours required for the major. Offered only by special advance arrangement with the department.

## HLPR-Health Professions

## HLPR 1100 INTRODUCTION TO HEALTH CARE

AND MEDICAL TERMINOLOGY
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111
Introduction to concepts necessary for effective, ethical performance in the health care delivery system. Terminology of medicine. Basic foundation course.

HLPR 1200 MULTIDISCIPLINARY SKILLS IN HEALTH PROFESSIONS
1-3-2
Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111
Emphasis on basic patient care skills common to all health professions. Patient and health practitioner safety is emphasized in class laboratory exercises.

## HLPR 2000 INTRODUCTION TO RESEARCH IN THE

HEALTH PROFESSIONS
Prerequisite: ENGL 1102 and MATH 2200 and either MATH 1101 or MATH 1111
Introduction to methods of scientific research in the health professions. Steps of the research process, critique of research reports, completion of literature review.

## HLPR 2010 CULTURE, ILLNESS, DIAGNOSIS AND TREATMENT

Prerequisite: ENGL 1101
Health practices around the world. How different cultural, social and ethnic groups explain the causes of illnesses, the types of treatments they seek, and services available for diagnosis. Involves several modules taught by different professors.

HLPR 2400 PRINCIPLES OF PHARMACOLOGY
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.

## 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.

HONS 2100 HONORS TOPICS IN ETHICS AND VALUES
2-0-2 or 3-0-3
Prerequisite: admission to the honors program; other prerequisites may vary according to instructor.
An in-depth examination of ethical issues. Students will participate in activities such as group discussions and debates on topical ethical issues. Course may be repeated for credit as topics vary, but may be counted to fill honors in the core requirement only once.

## HSCA - Health Services Administration <br> HSCA 3600 FINANCIAL MANAGEMENT FOR HEALTH-RELATED ORGANIZATIONS <br> Introduction to concepts of organizational financial management in the health industry.

HSCA 4201 HEALTH CARE MARKETING
Survey of the essential aspects of marketing as they apply various sectors of the health services industry.

## HSCA 4610 HEALTH CARE ECONOMICS

Microeconomic approach to the market for health services and macroeconomic applications to health policy formulation and evaluation.

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 4901, -2 HEALTH SCIENCE PRACTICUM IN LONG TERM CARE I AND II <br> Prerequisite: permission of instructor or department <br> 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-(1-4)
Prerequisite: permission of instructor or department
On-site experience in health services administration.

## HSCC - Health Science Core

HSCC 2500 HEALTH ISSUES AND RESOURCES 3-0-3
Formulation and facilitation of practical modes of collaboration and cooperation among health agencies, levels of program personnel, and provider organizations.

## HSCC 3120 HEALTH POLICY AND LAW

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

Distribution and determinants of health and disease in defined populations with applications to clinical, environmental, and infectious disease settings.

HSCC 3760 ENVIRONMENTAL AND COMMUNITY HEALTH ISSUES $\mathbf{3 - 0 - 3}$
Historical, contemporary, and prospective environmental factors that impact public health status.

## HSCC 4015 HEALTH PLANNING

Prerequisite or Corequisites: None
The study of community health promotion program planning, implementation and evaluation.

## HSCC 4020 SEMINAR IN PROFESSIONAL ISSUES

3-0-3
Prerequisite or Corequisites: None
Exposes students to expected standards of professional behavior by providing strategies for oral and written communication including research, resumes, job search, interviewing skills, grant writing, ethics, credentialing, setting agenda, and chairing meetings.

## 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

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
Individual and environmental forces generating opposing viewpoints regarding public health needs and concerns.

HSCP 3740 HEALTH PROMOTION METHODS $\mathbf{3 - 0 - 3}$
Selection of methods and media best suited for successful implementation of program plans for specific populations.

## HSCP 4000 INDEPENDENT STUDY IN HEALTH SCIENCE

Prerequisite: permission of instructor or department
Independent study in an area of interest in health.
HSCP 4030 HEALTH/FITNESS MANAGEMENT
Prerequisite or corequisite: Senior status in the BHS Health and Fitness Management track Art and science of managing health, wellness, and fitness centers.

## HSCP 4900 HEALTH SCIENCE PRACTICUM

Prerequisite: permission of instructor or department
On-site experience in the student's area of interest.

## HUMN-Humanities

HUMN 2960 FOREIGN LANGUAGE AND CULTURE
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.

## ITEC - Information Technology

ITEC 1300 FUNDAMENTALS OF INFORMATION TECHNOLOGY
Prerequisite: MATH 1111
Focus on the three components of fluency in information technology: intellectual capabilities involving reasoning, complexity management, organization, and communication; concepts involving computers, information systems, networks, digital representation of information, and algorithmic thinking; skills involving setting up a PC, using an operating system, the Internet, and instructional materials for new applications.

ITEC 1310 PROGRAMMING IN VISUAL BASIC
Prerequisite: MATH 1111
Introduction to the Visual Basic programming language and the concepts and techniques of microcomputer windows and GUI programming. Syntax of Visual Basic, forms, properties, controls, variables, decision structures, functions, and subroutines. Development of modular programs for event-driven applications.

Practical aspects of database systems. Fundamental concepts of database systems: database architecture, data independence, relational data model, SQL, database security, and database recovery. Survey of database systems: relational and object-oriented systems. Database administration and management using popular systems.

Emphasis on development of business application systems; includes methods for investigating systems, project planning and control, system integration, and techniques for describing process flows, data flows, data structures, system objects, file designs, input and output designs, and program specifications.

## ITEC 3710 E-COMMERCE

Prerequisite: CSCI 1150 and ITEC 1310
Principles and practices of E-commerce. Electronic payment systems. Banking issues related to Ecommerce. Security issues including risk management. Legal issues.

## ITEC 3961 INTERNSHIP IN INFORMATION TECHNOLOGY V-V-(1-4)

Prerequisite: Permission of instructor or program coordinator
Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.

## ITEC 3972 INTERNSHIP IN INFORMATION TECHNOLOGY

V-V-(1-4)
Prerequisite: Permission of instructor or program coordinator
Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.

## ITEC 4390 SENIOR PROJECT

## V-V-(1-6)

Prerequisite: permission of instructor or department
Development, study, or research of a topic in Information Technology under the supervision of a member of the IT faculty. A formal written report is required and any system developed must be welldocumented. Both the credit and proposed work must be approved in writing by the faculty member who will supervise the work. Repeatable to a total credit of 6 hours.

## ITEC 4720 APPLIED DATA COMMUNICATIONS

3-0-3
Prerequisite: ITEC 3610
Personal and team experience in current data communications technology, networks, and project development and management.

## ITEC 4770 CLIENT/SERVER SYSTEMS

3-0-3
Prerequisite: ITEC 3610 and ITEC 3500
Architectures and concepts of $n$-tier client/server models. Client/server interfaces and communications protocols: Open Database Connectivity (ODEC) and Java Database Connectivity (JDBC). Design and development of web-based applications involving front clients, middle-tier application servers, and backend databases.

## ITEC 4830 GRAPHICS DESIGN

Creation of two and three-dimensional computer graphics and animations using both professional programming libraries and standard CGI tools. Survey of hardware and software used in the computer graphics industry, classic algorithms and data structures for raster graphics, representation and processing of three dimensional objects, and an introduction to procedural animation and image processing for special effects.

## 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

Techniques of modern journalism; emphasis on writing and editing for newspapers and magazines.

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

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
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

Prerequisite: eligibility for ENGL 1101 and LATN 1001
Essentials of grammar and readings from selected Latin authors.
LATN 2001 INTERMEDIATE LATIN I
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

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

Prerequisite: LATN 2002
Readings from the 2000 years of Latinity from Plautis to the recent encyclicals.
LATN 3010 READINGS IN LATIN II
Readings in Latin poetry. May include Horace, Catullus, Ovid, Propertius, and Tibullus.

## LATN 3020 OVID

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

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

Prerequisite: LATN 2001
Readings from the Aeneid with emphasis on Books II, IV, VI, and VIII, and other selected works.

## LING - Linguistics

## LING 5000U TOPICS IN LINGUISTICS

Prerequisite: ENGL 2100 or permission of department head
Seminar in topics of theoretical and applied linguistics. Course may be taken more than once for credit as topics change.

## LING 5440U EARLY ENGLISH LITERATURE

Prerequisite: ENGL 2100 or permission of department head
English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as ENGL 5440U.

## LING 5445U CHAUCER <br> 3-0-3

Prerequisite: ENGL 2100 or permission of department head Chaucer's two masterpieces, The Canterbury Tales and Troilus and Criseyde, and minor poetry. Includes indepth study of Chaucer's culture, context, and language. Crosslisted as ENGL 5465U.

## LING 5800U ADVANCED GRAMMAR

Prerequisite: ENGL 2100 or permission of department head
Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as ENGL 5800U.

## LING 5820U HISTORY OF ENGLISH LANGUAGE

3-0-3
Prerequisite: ENGL 2100 or permission of department head
English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to Modern English. Phonetic, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as ENGL 5820 U .

## LMUG-LibraryMedia

LMUG 3000 INTRODUCTION TO MEDIA PROFESSION
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 <br> 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

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 $\mathbf{1 - 1 - 1}$
An orientation to the library. Students will learn to access information in a variety of formats.

## LSLI 3110 LIBRARY RESEARCH AND ELECTRONIC RESOURCES

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

Basic and advanced reference materials and search techniques in the humanities.
LSLI 3130 INFORMATION RESOURCES IN SOCIAL SCIENCES
Basic and advanced reference materials and search techniques in the social sciences.

## LSLI 3140 INFORMATION RESOURCES IN SCIENCES

Basic and advanced reference materials and search techniques in the sciences.

## MAED - Mathematics Education

MAED 5500U TEACHING MATHEMATICS WITH TECHNOLOGY
Prerequisite: MATH 1113
Use of graphing calculators and special computer software to teach algebra, geometry, advanced algebra, and precalculus.

MAED 5900U SPECIAL TOPICS IN MATHEMATICS EDUCATION
The study of topics relevant to the secondary mathematics classroom.

## MAED 5940U TEACHING OF MIDDLE SCHOOL/GENERAL MATHEMATICS

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 $\mathbf{3 - 0 - 3}$
Prerequisite: placement according to COMPASS score
Real numbers, variable expressions, solving equations and inequalities, applications, graphing straight lines, polynomials, factoring, and radical expressions.

## MATH 1101 MATHEMATICAL MODELLING

## MATH 1111 COLLEGE ALGEBRA

Prerequisite: regular admission to the university or a passing grade on COMPASS
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; (c) the student made below 430 on the mathematics portion of the SAT.
Functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs, inequalities, and linear, quadratic, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included.

## MATH 1113 PRE-CALCULUS MATHEMATICS

3-0-3
Prerequisite: MATH 1111 or a grade of at least 550 on the mathematics portion of the SAT
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 or a grade of at least 600 on the mathematics portion of the SAT Functions and limits; the derivative and its applications, antidifferentiation; the definite integral and applications; exponential and logarithmic functions.

## MATH 1161H HONORS CALCULUS I

4-0-4
Prerequisite: MATH 1113 or 600 or higher on the mathematics portion of the SAT. Eligibility or admission to the Honors Program, a minimum grade of B in MATH 1113, or permission of the department head.
Course content similar to MATH 1161, but a more rigorous treatment of differential and integral calculus. Course will include oral or written student presentations of theoretical or applied projects.

## MATH 1950 APPLIED MATH FOR NON-SCIENCE MAJORS

## 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 multivariate 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

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

Prerequisite: MATH 1101 or MATH 1111
Measures of central tendency and dispersion; probability distributions; inferences concerning means and proportions; goodness of fit; correlation; linear regression.

## MATH 2900 SPIRIT AND STRUCTURE OF MATHEMATICS

3-0-3
Prerequisite: MATH 1101 or 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

## 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 $\mathbf{3 - 0 - 3}$
Prerequisite: MATH 2083 and MATH 3000
Elementary properties of integers, groups, rings, and fields; mappings, homomorphisms, kernels, quotient structures.

## MATH 3170 ADVANCED LINEAR ALGEBRA

Abstract vector spaces, linear transformations, eigenvectors and eigenvalues, diagonalization, inner product spaces, real quadratic forms.

## MATH 3201 COMPUTATIONAL METHODS IN STATISTICS

Data analyses including topics from elementary statistics as well as ANOVA, multiple regression and nonparametric statistics using statistical software packages such as Minitab, SAS, or SPSS.

MATH 3211 PROBABILITY AND MATHEMATICAL STATISTICS I
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

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

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

## MATH 3480 OPTIMIZATION AND GRAPH THEORY

Topics in operations research selected from nonlinear programming, network analysis, Markhov chains, game theory, inventory theory.

## MATH 3900 SPECIAL TOPICS IN APPLIED MATHEMATICS

Prerequisite: announced with the course
Special topics of current interest in upper-level applied mathematics.

## MATH 3911 ALGORITHMS AND NUMBER SYSTEMS: A LABORATORY APPROACH

Prerequisite: either MATH 1161 or MATH 2900 and a passing grade on Praxis I
A laboratory approach to the study of mathematics. Topics include problem solving; sets; functions; numeration systems; and the integer, rational, and real number systems.

MATH 3912 GEOMETRY AND DATA ANALYSIS: A LABORATORY

## APPROACH

Prerequisite: MATH 3911 and admission to teacher education
A laboratory approach to the study of mathematics. Topics include geometry, measurement, probability, statistics, and motion geometry.

## MATH 3932 MATHEMATICAL REASONING AND REPRESENTATION

Prerequisite: MATH 1113 and MATH 3912
A laboratory approach to the study of mathematics. Topics include methods of reasoning and proof; algebraic structures; conceptual consideration of functions; regression; recursion; propor-tional reasoning; analytic and transformational geometry; and rational, integer and real number arithmetic.

## MATH 4000 PUTNAM SEMINAR

0-2-1
Prerequisite: MATH 2083
A variety of mathematical problems, considered with the aim of developing problem-solving techniques.

## MATH 4011 ADVANCED CALCULUS I

3-0-3
Prerequisite: MATH 2083 and MATH 3000
The real number system; sequences and series; limits of functions, the Bolzano-Weierstrass theorem; uniform continuity; the derivative.

MATH 4022 ADVANCED CALCULUS II $\mathbf{3 - 0 - 3}$
Prerequisite: MATH 4011
The Riemann integral; metric spaces; compactness; sequences of functions; uniform convergence.

## MATH 4060 FUNCTIONS OF COMPLEX VARIABLES

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.

An introductory course in numerical analysis and computation. Topics include computer arithmetic and numerical error, systems of linear equations, iterative methods for nonlinear equations, polynomial interpolation, least squares approximation, and numerical integration. Crosslisted as CSCI 5610U.

## MATH 4900 SPECIAL TOPICS

V-V-(1-3)
Prerequisite: announced with the topic
Special topics of current interest in upper-level mathematics.

## MATH 4910 HONORS PROJECT IN MATHEMATICS

Prerequisite: permission of instructor
Open only to seniors. Independent reading or research in the mathematical sciences, including a presentation to an appropriate audience.

## MATH 4961, -2, -3 INTERNSHIP IN MATHEMATICS

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 4964 PRACTICUM IN TEACHING MATHEMATICS <br> V-V-(1-3)

Prerequisite: permission of instructor or department head
Students assigned to classroom teachers in grades 7-12 or special teaching/practicum assignments under the supervision of a teacher. May include Saturday school, summer school, Project PREP, assigned tutorials. Grading is $\mathrm{S} / \mathrm{U}$, with one semester hour of credit equivalent to 60 practicum hours. Repeatable to a total of three credit hours.

## 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
Prerequisite: MATH 3000
The historical development of mathematics from its empirical beginnings to its present state.

## MATH 5900U TOPICS IN MATHEMATICS

V-V-(1-3)
Prerequisite: permission of instructor or department
Special topics of current interest in upper-level mathematics.

## MATH 5911U TOPICS IN MATHEMATICS FOR EDUCATORS

Topics in mathematics designed for preservice and inservice elementary and middle grades teachers.

## MEDT-Medical Technology

Prerequisite: admission to MT program or permission of program director
Basic knowledge of clinical laboratory science, including content common to several discipline areas, literature research, laboratory math, sample collection, quality assurance, and microscopy.

## MEDT 3011 FOUNDATIONS OF MEDICAL LABORATORY SCIENCE

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

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

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

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 or MEDT 3510
Advanced level topics in clinical chemistry.
MEDT 3510 CLINICAL CHEMISTRY
Prerequisite: admission to MT program
Physiological principles, methodologies and clinical significance of biochemicals and elements found in body fluids.

## MEDT 3600 CLINICAL INSTRUMENTATION

Prerequisite: permission of instructor or department
Open only to medical technology majors. Principles and operation of medical laboratory instrumentation.

## MEDT 3610 CLINICAL INSTRUMENTATION <br> Prerequisite: admission to MT program

Principles and operation of medical laboratory instrumentation.
MEDT 3700 CLINICAL IMMUNOSEROLOGY
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
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
Open only to medical technology majors. Pathogenesis, life cycles, and laboratory identification of human parasites.

MEDT 3900 CLINICAL MYCOLOGY AND VIROLOGY
1-2-2
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

Prerequisite: permission of instructor or department
Open only to medical technology majors. Structured clinical laboratory experience in phlebotomy.
MEDT 4210 CLINICAL MICROBIOLOGY PRACTICUM
Prerequisite: MEDT 3200 and MEDT 3800 and MEDT 3900
Structured clinical laboratory experiences in microbiology, parasitology, and mycology.

## MEDT 4310 CLINICAL HEMATOLOGY PRACTICUM

Prerequisite: MEDT 3300
Structured clinical laboratory experience in hematology and hemostasis.
MEDT 4410 CLINICAL IMMUNOHEMATOLOGY PRACTICUM
Prerequisite: MEDT 3400
Structured clinical laboratory experience in transfusion medicine.

## MEDT 4510 CLINICAL CHEMISTRY PRACTICUM

Prerequisite: MEDT 3501
Structured clinical laboratory experience in automated and special chemistry.

## MEDT 4600 CLINICAL PATHWAYS \& CRITICAL DECISION MAKING

## MEDT 4710 CLINICAL IMMUNOSEROLOGY PRACTICUM

Structured clinical laboratory experience in serology.
MEDT 4810 SPECIAL TOPICS PRACTICUM
Prerequisite: all of MEDT 3100, 3200, 3300, 3400, 3501, 3600, 3700, 3800, 3900
Structured experiences in alternate clinical sites. Settings may include doctors, reference, and clinic laboratories.

## MEDT 4900 LABORATORY MANAGEMENT AND EDUCATION

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.

MEDT 4990H HONORS THESIS IN MEDICAL TECHNOLOGY 0-3-3
Prerequisite: MEDT 3000-3900 and acceptance into the Honors Program
A research project under the supervision of a departmental faculty committee. Project must include a thesis and oral presentation.

## METR-Meteorology

METR 3100 INTRODUCTION TO METEOROLOGY $\mathbf{3 - 0 - 3}$
Prerequisite: 6 semester hours of science
Introduction to the description of the state of the atmosphere and the physical laws that describe atmospheric phenomena.

## MGED - Education - Middle Grades

## MGED 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.

## MGSE - Middle Grades/Secondary Education

MGSE 2000 THE PROFESSIONAL EDUCATOR
Role of the teacher in modern society, overview of the history of education in the United States, current trends in educational theories and philosophies. Introduction for pre-service teachers to developmental, educational, certification, ethical, and legal requirements for educating adolescents, including those with disabilities as defined by state and federal legislation. Directed field experience required.

## MGSE 2180 LITERATURE FOR YOUNG ADULTS

Significant literature and multimedia literary offerings appropriate for young adults. Directed field experience required.

MGSE 2200 MIDDLE SCHOOL THEORY AND PRACTICE

## Prerequisite: CEUG 2100

History and purpose of middle schools and the role of middle school teachers and teams. Guided application of developmentally appropriate programs, curriculum, methods and technology. Directed field experience required.

## MGSE 3050 CURRICULUM AND METHODS

Development of curricula and selection of instructional strategies and materials appropriate for adolescents. Directed field experiences required.

MGSE 3200 GLOBAL AND MULTICULTURAL ISSUES IN EDUCATION
Prerequisite: CEUG 2100, MGSE 2000, MGSE 2180
An introduction to global and multicultural educational issues as they relate to children and adolescents in our modern world.

## MGSE 4080 STUDENT PROGRAM AND EVALUATION

Prerequisites: Admission to the College of Education and MGSE 4400, 4500 and 3071.
Standardized tests, evaluation methods and best practices utilizing existing content and pedagogical software, internet resources and technical writing. Directed field experience.

## MGSE 4090 CLASSROOM MANAGEMENT (4-8)

Prerequisite: admission to the College of Education and MGSE 4400, MGSE 4500, MGSE 3071
Research knowledge base to create a well managed classroom and guide the behavior of middle grade children. Directed field experience required.

MGSE 4100 STUDENT TEACHING AND SEMINAR I $\quad \mathbf{2 - 0 - 6}$
Prerequisite: admission to the College of 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 the College of Education
Corequisite: MGSE 4100
Opportunities to use knowledge and skills in a supervised 6-8 public school setting.
MGSE 4280 TEACHING AND EVALUATION OF LITERACY THROUGH READING AND WRITING IN THE MIDDLE GRADES CONTENT AREAS $\mathbf{3 - 4} \mathbf{3}$
Prerequisite: admission to the College of Education and MGSE 4400, MGSE 4500, MGSE 3071
Teaching and evaluation of literacy through reading and writing in the content areas for adolescents. Directed field experiences required.

## MGSE 4392 SECONDARY SCHOOL CURRICULUM AND METHODS,

 ENGLISHPrerequisite: admission to the College of Education and MGSE 2150 and MGSE 3050
Middle and secondary school English curriculum with emphasis upon materials and methods including field experience.

MGSE 4400 CURRICULUM AND METHODS, SOCIAL STUDIES 3-0-3
Prerequisite: admission to the College of Education and MGSE 2200, MGSE 3200, MGSE 3050
Materials and methods of teaching middle and secondary school social studies.
MGSE 4412 SECONDARY SCHOOL CURRICULUM AND METHODS, MATHEMATICS 3-9-3
Prerequisite: admission tothe College of Education and MGSE 2150 and MGSE 3050
Materials and methods of teaching middle and secondary school mathematics including field experiences.

MGSE 4500 CURRICULUM AND METHODS, SCIENCE
Prerequisite: admission to the College of Education and MGSE 2200, MGSE 3200, MGSE 3050
Materials and methods of teaching middle and secondary school science.
MGSE 4750 STUDENT TEACHING AND SEMINAR 2-V-(9-12)
Prerequisite: admission to the College of Education
Opportunities to use the knowledge and skills in a supervised 7-12 public school setting.
MGSE 4811 INTERNSHIP I
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.

## MGSE 4900 INDEPENDENT STUDY 0-V-(1-3)

Prerequisite: permission of instructor
In-depth, closely supervised, instructor-approved study in education. Student must have skills in independent research and study.

## MHSA - Health Services Administration

MHSA 5500U MANAGING HEALTH PROFESSIONALS
Prerequisite or Corequisites: None
Examines the differences between management and clinical professionals and explores ways to better integrate these sometimes divergent interests, cultures, values, and concerns in health services organizations.

## MHSA 5650U SEMINAR IN LONG TERM CARE ADMINISTRATION

Statutory guidelines, facility licensing requirements, Medicare/Medicaid requirements for reimbursement, and items necessary for successful completion of Georgia state nursing home administrator licensure examination.

## MUSC - Music

MUSC 1000 RECITAL ATTENDANCE
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

Prerequisite: MUSC 1110 or passing music theory entrance exam
Corequisite: MUSC 1130
Basic theoretical principles of music, including analysis, sightsinging, and ear training. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

## MUSC 1112 ELEMENTARY MUSIC THEORY II

Prerequisite: MUSC 1111
Corequisite: MUSC 1130
A continuation of MUSC 1111 with emphasis on part writing of diatonic material up through seventh cords. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

## MUSC 1130 INTRODUCTION TO KEYBOARD HARMONY

Keyboard techniques which reinforce theoretical concepts covered in MUSC1111, including those skills needed to fulfill the piano proficiency exam. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

## MUSC 1300 APPLIED MUSIC

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
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

Non-technical survey of important jazz performers and styles.
MUSC 2111 INTERMEDIATE THEORY I
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. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

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 scaler materials, atonality, and twelve-tone technique. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

## 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

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
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
Prerequisite: MUSC 1112
Improvisation through study of scales, chords, melodic concepts, ear training and analysis.
MUSC 2202 JAZZ IMPROVISATION II

## MUSC 2270 CLASS VOICE

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 <br> 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

Open only to music majors. Principles of string and guitar performance and pedagogy.
MUSC 2400 APPLIED MUSIC
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 SAVANNAH WINDS

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 UNIVERSITY SINGERS

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 UNIVERSITY CHORALE
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 2810 CONDUCTING

Prerequisite: MUSC 1112
Open only to music majors. Conducting techniques and interpretation.
MUSC 3120 FORM AND ANALYSIS
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
Prerequisite: admission to the College of Education and ECUG 3040 and ECUG 3050 and ECUG 3071 and ECUG 3100 and ECUG 3010
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-5). 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
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
Organization and development of school band ensembles and problems of teaching instrumental music. Includes a laboratory experience which simulates ensemble rehearsals.

MUSC 3340 SECONDARY CHORAL METHODS
Prerequisite: MUSC 2810 and one of MUSC 2360, 2370 or 2380
Development of skills in organizing, teaching, and conducting choral music in secondary schools. Includes a laboratory experience which provides opportunities for students to conduct ensemble rehearsals.

MUSC 3400 APPLIED MUSIC
Prerequisite: permission of instructor or department and passage of rising junior exam Corequisite: MUSC 3540 or MUSC 3560
Open only to music majors. Consists of one 50 -minute lesson or two 25 -minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly perfor-mance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 3510 SAVANNAH WINDS
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 and permission of instructor or department Repertoire selected from a variety of jazz periods and styles. Public performances required.

MUSC 3530 UNIVERSITY SINGERS
Prerequisite: four semesters of MUSC 2530
Corequisite: MUSC 3540
Repertoire selected from vocal chamber literature including classic literature and vocal jazz. Public performances each term. Membership open to all students by audition.

## MUSC 3550 CHAMBER ENSEMBLE

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 <br> 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

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 1100 and MUSC 1111 and MUSC 1130
History of music in western civilization from origin to end of baroque era.
MUSC 3720 MUSIC HISTORY II
Prerequisite: MUSC 1100 and MUSC 1111 and MUSC 1130
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 TECHNIQUES2-0-2
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

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 performancepractice concepts in ensemble rehearsals.

## MUSC 4240 BAND REPERTOIRE

Prerequisite: MUSC 2810
Literature and performance practice for school instrumental ensembles. Includes a laboratory situation to simulate an ensemble setting.

## MUSC 4250 PIANO PEDAGOGY

Open only to music majors. Historical overview of pedagogical techniques of the piano and a survey of literature suited for teaching purposes.

## MUSC 4280 MARCHING BAND TECHNIQUES

## 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
Prerequisite: MUSC 1100
Historical, stylistic, formal, and aesthetic features of symphonic music.
MUSC 4400 APPLIED MUSIC
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 perfor-mance 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 either MUSC 3120 or MUSC 3610 and successful completion of piano proficiency exam
Corequisite: MUSC 3510
Open only to music majors. Advanced techniques in instrumental conducting. Includes a laboratory experience that provides opportunities for students to conduct ensemble rehearsals and possibly one public performance

## MUSC 4890 SELECTED STUDIES IN MUSIC

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 3308 PHARMACOLOGICAL CONCEPTS FOR NURSING

Prerequisites or Corequisites: NURS 3304, NURS 3320
Principles of pharmacology with an emphasis on implications for nursing practice.

## NURS 3309 PATHOPHYSIOLOGY

Prerequisite or Corequisite: None
Principles of pathophysiology with an emphasis on implications for nursing practice.

## NURS 3320 HEALTH ASSESSMENT OF THE WELL INDIVIDUAL

Prerequisite or corequisite: NURS 3304
Application of techniques to assess the well individual. Variations and risk factors related to age, gender, and ethnic origin will be explored.

## NURS 3340 CULTURE AND FAMILY

Prerequisite or corequisite: NURS 3304
Theory based therapeutic nursing interventions for family health promotion.

## NURS 3345 ADULT HEALTH I

Prerequisites or corequisites: NURS 3304, NURS 3320, NURS 3308
Therapeutic nursing interventions for adult clients with simple alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

## NURS 3355 WOMEN'S HEALTH

Prerequisites: NURS 3304, NURS 3308, NURS 3320, NURS 3345
Prerequisite or corequisites: NURS 3309, NURS 3340
Therapeutic nursing interventions to promote health and prevent illness of women in a variety of clinical settings.

NURS 3425 CHILDREN'S HEALTH $\quad \mathbf{3 - 6 - 5}$
Prerequisite: NURS 3304, NURS 3308, NURS 3320, NURS 3345
Prerequisite or corequisites: NURS 3309, NURS 3340
Health promotion, maintenance and restoration as the foundation for nursing care in a variety of settings.

## NURS 4000 PROFESSIONAL NURSING PRACTICE

Prerequisite: admission to the RN options program
Socialization process to promote role transition and the development of communication skills. Emphasizes development of written and oral communication skills.

## NURS 4002 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSES 4-0-4 <br> Prerequisite: admission to the RN options program <br> Application of leadership/management concepts, theories, and principles in the practice setting.

## NURS 4003 HEALTH CARE SYSTEMS AND POLICY $\mathbf{3 - 0 - 3}$

Prerequisite: admission to the RN options program
Exploration of health care systems and policy from a global and national nursing perspective.

## NURS 4004 HEALTH ASSESSMENT

Prerequisite: admission to the RN options program Comprehensive health assessment of the individual, using didactic and laboratory activities with a health promotion focus.

## NURS 4005U POPULATION FOCUSED COMMUNITY NURSING

## IN A GLOBAL SOCIETY

4-6-6
Prerequisite: admission to the RN options program
Population focused community nursing practice in a global society for registered nurses.

Prerequisite or corequisite: completion of all other RN Options courses
Synthesis of nursing and core curriculum concepts to apply meaning to the role of professional nurse.

## NURS 4007 HEALTH CARE OF FAMILIES

Prerequisite: Admission to RN Options and NURS 4000
Exploration of family nursing interventions for care of the individual as a member of a family, the family as client, and the family as part of the community and society.

## NURS 4210 GERONTOLOGY IN THE 21st CENTURY

Prerequisites: Admission to the BSN program or permission of course instructor Explore normal aging, theories of aging, and the effect society has on the increasing geriatric population.

## NURS 4211 VULNERABLE POPULATIONS

Prerequisites: Admission to the BSN program or permission of course instructor
This course provides an overview of vulnerable populations and the role of the nurse in the health care of these populations.

## NURS 4212 INTERNATIONAL NURSING ISSUES AND TRENDS

Prerequisites: Admission to the BSN program or permission of course instructor
Explores the influence of culture, economics, politics, and technology on global health.
NURS 4213 INTRODUCTION TO FORENSIC NURSING AND THE LAW
Prerequisites: Admission to the BSN program or permission of course instructor
This course provides an introduction to the principles of forensic nursing and legal issues related to nursing practice.

NURS 4214 COMPLEMENTARY AND ALTERNATIVE MEDICINE
This course provides an overview of complementary and alternative medicine (CAM). A variety of healing practices will be examined.

## NURS 4215 HOME HEALTH NURSING

Prerequisites: NURS 3304, 3345, 3320, 3308, 3309, 3340, and either 3355 or 3425
Therapeutic nursing interventions of clients in the home setting.
NURS 4216 PALLIATIVE CARE AT END OF LIFE
Prerequisite: none
Explore and address the critical aspects of end of life care in the adult client across all life threatening illnesses.

## NURS 4217 CRITICAL CARE

Prerequisites: NURS 3304, 3308, 3320, and 3345
Nursing care of the adult client in critical care settings with life threatening alterations in health. Emphasis is placed on the role of the professional nurse in the restoration and maintenance of health with clients and their families experiencing critical illness.

NURS 4218 PERIOPERATIVE NURSING
Prerequisites: NURS 3304, 3308, 3320, and 3345
Explores the role of the nursing in the perioperative setting.
NURS 4219 NURSING PERSPECTIVES: THEN, NOW, AND THE FUTURE
Prerequisite: none
Analyzes the influences of significant historical nursing figures through present day as it influences the future of nursing.

## NURS 4220 WOMEN AND LEADERSHIP IN NURSING

## NURS 4221 NURSING PRACTICE IN THE MILITARY

## Prerequisite: none

Examine the social, political, environmental, and global impact of military warfare on nursing practice in context of nursing leadership, practices and traditions.

## NURS 4435 MENTAL HEALTH RESTORATION <br> 3-6-5 <br> Prerequisites: NURS 3355, NURS 3425, NURS 3340, NURS 3309

Health restoration of clients with disruptions in mental health.
NURS 4345 ADULT HEALTH II
Prerequisites: NURS 3355, NURS 3425, NURS 3340, NURS 3309
Therapeutic nursing interventions for adult clients with complex alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

## NURS 4440 POPULATION FOCUSED NURSING <br> 2-9-5

Prerequisites: NURS 4435, NURS 4445
The professional nurse's role in population focused health care.
NURS 4445 NURSING RESEARCH
3-0-3
Prerequisite: MATH 2220 and admission to the nursing major
Critique and utilization of research as a basis for evidence based practice.
NURS 4450 PROFESSIONAL NURSING LEADERSHIP AND MANAGEMENT
Prerequisites: NURS 4345, NURS 4435, NURS 4445
Leadership and management roles of the professional nurse in selected clinical settings.
NURS 4460 PROFESSIONAL NURSING SEMINAR
3-0-3
Prerequisites or corequisites: NURS 4440 and NURS 4450
Exploration of nursing trends and issues.

## NURS 4490 TOPICS IN PROFESSIONAL NURSING

The student, in consultation with the professor, selects a topic and submits a proposal for supervised independent study.

## NURS 4495H NURSING HONORS PROJECT

Prerequisite: admission to nursing honors program
Honors project under the supervision of a departmental nursing facility member.
NURS 5540U CASE MANAGEMENT 3-0-3
Application of theoretical foundations, definitions, and roles of case management will be explored.

## OCEA - Oceanography

OCEA 3100 INTRODUCTION TO OCEANOGRAPHY
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.

## 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.

## PEBC-Physical Education Activities

## PEBC 1010 LIFETIME FITNESS TRAINING <br> 0-3-1 <br> 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

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
Fundamentals and practice in beginning tumbling and gymnastic apparatus.

## PEBC 1301 BASIC SWIMMING SKILLS

Skills and strokes for the student unfamiliar with or afraid of the water and who cannot swim.
PEBC 1302 INTERMEDIATE SWIMMING
Six basic strokes, skills, endurance, and knowledge pertaining to safety in, on, or about water.

## PEBC 1350 BEGINNING SCUBA

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. Student must provide own racket and can of new tennis balls.

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 FOLK, SOCIAL, AND CONTEMPORARY DANCING
Continuation of PEBC 1501 with emphasis on dynamics, composition, and choreography.
PEBC 1530 INTERMEDIATE MODERN DANCE
0-2-1
Instruction and practice in many forms of folk, square, and social dancing.

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 DANCING0-2-1
Modern, lyrical, and hip hop forms of jazz, including fundamental techniques and choreography.
PEBC 1601 BEGINNING GOLF ..... 0-2-1Basic techniques and instruction for the beginning golfer. Minimum of 9 holes of golf must be played outsideof class at student's expense. Must provide own transportation to off-campus site.
PEBC 1602 INTERMEDIATE GOLF0-2-1Prerequisite: PEBC 1601 or permission of instructorReview and refinement of beginning skills, etiquette, and strategies of golf. Must provide owntransportation to off-campus site.

## PEBC 2000 CONCEPTS OF FITNESS

 2-1-3Theoretical knowledge and practical experience in the principles, assessment, and development of fitness for living. Students will develop and implement personalized fitness programs. Instruction and certification in American Red Cross Safety, First Aid, CPR and AED training included. Administrative fee paid to American Red Cross for proof of certification.

## PEEC-Physical Education Elective

## PEEC 2000 SAFETY, FIRST AID AND CPR

2-0-1
The American Red Cross course in "workplace training: Standard First Aid with CPR". Workplace knowledge and skills necessary to recognize and provide basic care for injuries and sudden illnesses until advanced medical personnel arrive. Includes use of an automated external defibrolator (AED) for victims of sudden cardiac arrest. Administrative fee paid to American Red Cross for proof of certification.

## PEEC 2180 OFFICIATING TEAM SPORTS

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 3000 TAP DANCE

0-1-1
Designed to teach the most frequently used step combinations applied in choreographed tap dance routines. Performance of one or more routines required. Students required to provide own tap shoes.

## PEEC 3120 COACHING FOOTBALL

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/AED/first aid.

## PEEC 3340 WATER SAFETY INSTRUCTOR <br> 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

Prerequisite: open to majors in health and physical education
Research methods in health and physical education.

## PEHM-Physical Education-Health Major

PEHM 2281 HUMAN STRUCTURE AND FUNCTION I
3-0-3
Anatomy and physiology of the major body systems.
PEHM 2283 KINESIOLOGY
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. Field experience required.

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. Field experience required.

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. Field experience required.

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. Field experience required.

## 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. Field experience required.

PEHM 3050 THEORY AND TECHNIQUES OF DANCE
History, background, teaching techniques, and evolution of the various forms of dance including square, folk, social, and modern. Field experience required.

Instruction in recreational games and activities in diverse settings and with diverse populations. Includes knowledge, attitudes and skills for wiser use of the outdoors and natural resources. Field experience required.

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 3700 INDIVIDUAL AND DUAL SPORTS

Analysis, demonstration, and application of basic skills and techniques necessary for instruction in individual and dual sports. Field experience required.

## PEHM 3770 HEALTH AND HUMAN SEXUALITY EDUCATION

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

3-0-3
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. Field experience required.

## PEHM 4200 ASSESSMENT IN HEALTH AND PHYSICAL EDUCATION

## PROGRAMS

3-1-3
Health, motor, perceptual, and performance needs for multiple student populations with an analysis and application of published and teacher-developed instruments. Field experience required.

## 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. Field experience required.

## PEHM 4701 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION

 CURRICULUM AND METHODS4-1-4
Theory and current practice in the teaching of elementary health and 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. Field experience required.

PEHM 4702 MIDDLE SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND METHODS

4-1-4
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 grades teaching portfolio in physical education. Field experience required.

## PEHM 4703 SECONDARY SCHOOL HEALTH AND PHYSICAL <br> EDUCATION CURRICULUM AND METHODS <br> 4-1-4

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 secondary teaching portfolio in physical education. Field experience required.

## PEHM 4811 INTERNSHIP I

0-V-6
Prerequisite: permission of instructor or department head
Supervision for one semester by college faculty of students who hold teaching positions in a school setting.

0-V-6
PEHM 4812 INTERNSHIP II
Prerequisite: permission of instructor or department head
Supervision for one semester by college faculty of students who hold teaching positions in a school setting.

## 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
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

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

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

Prerequisite: ENGL 1101
Medieval philosophy and the rise of humanistic studies in the Renaissance, with emphasis on Boethius, Augustine, Acquinas, Anselm, Occam, Erasmus, Bacon, Machiavelli, and Montaigne.

PHIL 3130 CONTINENTAL RATIONALISM AND BRITISH EMPIRICISM
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

Prerequisite: ENGL 1101
Nineteenth century philosophy with emphasis on Kant, Hegel, Schopenhauer, Marx, James, Kierkegarrd, and Nietzsche.

## PHIL 3150 TWENTIETH CENTURY PHILOSOPHY

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

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 4000 SPECIAL TOPICS

## 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

Prerequisite: ENGL 1101 and an upper division PHIL course
Offered on demand. The student, with the advice and permission of the supervising professor, selects the topic and submits a prospectus for department approval before the semester in which the course is to be taken. Transient students may take this course only with permission of the department head.

## PHSC - Physical Science

PHSC 1211 PHYSICAL ENVIRONMENT
3-0-3
Prerequisite: eligibility for MATH 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.

## PHTH-Physical Therapy

## PHTH 5101U FUNCTIONAL AND STRUCTURAL ASPECTS OF MOVEMENT I

Prerequisite: admission to professional phase of the physical therapy program
Gross anatomy, physiology, pathophysiology and kinesiology of the musculoskeletal system.

## PHTH 5131U FOUNDATIONS OF PHYSICAL THERAPY EXAMINATION, EVALUATION AND INTERVENTION I

Prerequisite: admission to professional phase of the physical therapy program
Fundamental patient care skills including basic examination and assessment. Treatment and documentation for patients with musculoskeletal and integumentary dysfunction.

## PHTH 5161U PHYSICAL THERAPY PRACTICE ISSUES I

2-0-2
Prerequisite: admission to professional phase of the physical therapy program
Discussions of the professional issues which influence the planning and delivery of physical therapy care and an understanding of the position of physical therapy within the health care system. 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
Prerequisite: admission to professional phase of the physical therapy program
Initial exposure to the health care setting and health care professionals through discussion and halfday on-site observational experiences. Care settings will include specialty clinics, long term care facilities, hospitals, and school systems.

Gross anatomy, physiology and pathophysiology of the integumentary, cardiopulmonary, and nervous systems.

## PHTH 5232U FOUNDATIONS OF PHYSICAL THERAPY EXAMINATION, EVALUATION AND INTERVENTION II <br> Prerequisite: PHTH 5131U <br> Fundamental patient care skills including basic evaluation. treatment and documentation for patients with cardiopulmonary and neuromuscular dysfunction.

## PHTH 5262U PHYSICAL THERAPY PRACTICE ISSUES II

Prerequisite: PHTH 5161U
Further discussions of the professional issues which influence the planning and delivery of physical therapy care and an understanding of the position of physical therapy within the health care system. Case studies will link the material presented in this course with other courses taught in this semester.

## PHTH 5282U CLINICAL PRACTICUM II

Prerequisite: PHTH 5181U
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

Prerequisite: PHTH 5131U
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 1010 THE PHYSICS OF SPORTS

3-0-3
Prerequisite: MATH 1111
Fundamental concepts, laws, and theories of physics as they relate to a variety of sports, including volleyball, soccer, tennis, golf, and more. For non-science majors interested in the concepts underlying the mechanics of the skills and movements involved in a variety of physical activities. Includes in-class demonstrations and activities.

## PHYS 1111 INTRODUCTORY PHYSICS I

Prerequisite: MATH 1113 with a grade of C or better
Prerequisite or corequisite: PHYS 1111L
Introductory mechanics, thermodynamics, and waves using elementary algebra and trigonometry.

## PHYS 1111L INTRODUCTORY PHYSICS I LAB

Prerequisite: MATH 1113
Prerequisite or corequisite: PHYS 1111
Laboratory investigation of the concepts of mechanics, thermodynamics, and waves.

## PHYS 1112 INTRODUCTORY PHYSICS II

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 2211L PRINCIPLES OF PHYSICS I LAB

Prerequisite or corequisite: PHYS 2211
Laboratory investigation of the concepts of mechanics, thermodynamics and waves.

## PHYS 2212 PRINCIPLES OF PHYSICS II

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 <br> 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 <br> 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 $\quad \mathbf{1 - 6 - 3}$
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: ENGR 2201
Kinematics of particles and rigid bodies; kinetics of particles and rigid bodies using force-massacceleration, work-energy, and momentum methods in two- and three-dimensional motion. Computer modeling of mechanical systems.

## PHYS 3220 MECHANICS OF DEFORMABLE BODIES

Prerequisite: ENGR 2020
Internal effects and dimension changes of solids resulting from external applied loads; shear and bending moment diagrams, analysis of stress and strain; beam deflection; column stability.

PHYS 3230 FLUID MECHANICS
Prerequisite: MATH 3411 and either ENGR 2020 or ENGR 2202 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 PHYS 2212L and MATH 3411
Thermodynamic properties, energy and mass conservation, entropy and the second law. Second-law analysis of thermodynamic systems, gas cycles, and vapor cycles.

## PHYS 3312 ELECTROMAGNETISM

Prerequisite: PHYS 2212 and MATH 2083
Electrostatics, magnetostatics, electromagnetism, electromagnetic waves, and applications, using both the integral form and differential form of Maxwell's equations.

## PHYS 3400 CHEMICAL THERMODYNAMICS

Prerequisite: CHEM 1212 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 multicomponent phase equilibria, ideal and non-ideal solutions. Practical application of these fundamental principles of physical chemistry in the laboratory.

## PHYS 3500 DIFFRACTION AND CRYSTALLOGRAPHY

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 1161and 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

Introduction to quantum mechanical principles with applications in atomic and molecular structure.

## PHYS 4120 SCIENTIFIC MEASUREMENT WITH DIGITAL INTERFACING

Prerequisite: PHYS 3120 and CSCI 1301
Principles and techniques used in measuring physical quantities, including transducers, data acquisition interfaces, and data analysis. Data acquisition and process control capabilities of the computer as a general purpose lab instrument. Hands-on lab experience through applications in experimental physics. Includes a variety of oral and written assignments. Physics faculty involved in assessments.

## PHYS 4170 ADVANCED MECHANICS

Prerequisite: MATH 2083 and PHYS 2212 (MATH 3411also recommended)
Mechanics of particles and systems of particles using Newtonian and Euler-Lagrangian/Hamiltonian 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 2201 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 1150 WORLD POLITICS

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
$(2-3)-0-(2-3)$
Prerequisite: eligibility for ENGL 1101
Ethics of citizenship, policy-making, and governance. Classical and modern theories of justice, with emphasis on collective goods and individual rights. Three credit option requires student research on distributive justice and public policy.

## 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 2290 FOUNDATIONS OF INTERNATIONAL RELATIONS

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 3160 AMERICAN JUDICIAL POLITICS AND STRATEGIES

3-0-3
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
A focused study of the roles played by the federal courts and judges in the American legal system, including political jurisprudence, politics of judicial selection; judicial decision making and strategies, and judicial review in a democracy.

## POLS 3170 CONSTITUTIONAL LAW AND THE FEDERAL SYSTEM

Prerequisite: POLS 2100 or 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 or 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 or 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 or 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.

An exploration of the narrow intersection of American constitutional law and foreign policy, powers of the executive and legislative in foreign policy, and issues such as the war, treaty, and spending powers.

## POLS 3300 POLITICAL PHILOSOPHY: ANCIENT AND MEDIEVAL

Prerequisite: POLS 1200 or POLS 2100 or 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.

Prerequisite: POLS 1200 or POLS 2100 or 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
Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Ideological traditions in American politics. Atlantic republicanism, Lockean liberalism, Jeffersonism, Jacksonian democracy, nineteenth and twentieth century reform and radical movements, pragmatism, neoconservatism, and the influence of religion on American political thought.

POLS 3330 CONTEMPORARY POLITICAL THOUGHT
3-0-3
Prerequisite: POLS 1200 or POLS 2100 or HIST 1100 or POLS 1100 or HIST 1112
Ideological currents of our time. Socialism, Communism, Liberalism, Conservatism, Fascism.
POLS 3430 GOVERNMENTS OF AFRICA
Prerequisite: POLS 1150 or POLS 2100
Political institutions and governments of Africa and the African Union, ethnic conflict and state disintegration, democratization and post-colonial political economy, post-Apartheid South Africa, public health and environmental issues of the continent.

POLS 3440 LATIN AMERICAN POLITICS
3-0-3
Prerequisites: POLS 1150 or POLS 2290
Examination of cultural traditions, economic institutions and problems, efforts to strengthen and deepen the recent transitions to democracy, and civil-military relations in post-authorization Latin America.

POLS 3450 POLITICAL SOCIOLOGY OF NATIONALISM
Prerequisite: SOCI 1101 or POLS 2100
Various theories of nationalism and their social, historical economic and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic and anticolonial nationalism are examined in a global perspective.

## POLS 3460 GOVERNMENTS OF EAST ASIA

Prerequisite: POLS 2100 or 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 3470 GOVERNMENTS OF THE EUROPEAN UNION
3-0-3
Prerequisite: POLS 1150 or POLS 2100 or EURO 2000
Political systems of the European Union member countries; European federalism; EU political and security institutions and policy-making; integration and expansion of the union.

## POLS 3520 COMPARATIVE FOREIGN POLICY

Prerequisites: POLS 1150 or POLS 2290
Examination of various theories of state type and foreign policy behavior and evaluation of such theories in foreign policy analysis.

## POLS 3990 SPECIAL TOPICS IN POLITICAL SCIENCE

Prerequisite: permission of instructor or department and POLS 2100
Topics and issues not available in other courses. May be repeated as topics vary.

## POLS 4100 INDEPENDENT STUDY IN AMERICAN GOVERNMENT

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

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Roles of the president as head of government and head of state. Emphasis on constitutional powers, separation of powers, checks and balances, political leadership styles, election politics and media, and the function of executive power in democratic societies.

## POLS 4150 AMERICAN SUPREME COURT

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Structure and functions of the Supreme Court, its use of legal reasoning, and role as policy maker.

## POLS 4160 THE AMERICAN CONGRESS

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Bicameral structure and function of the national legislature. Congress as policy-maker and institution of representative government. Role of political parties in Congress.

## POLS 4180 ADMINISTRATIVE LAW

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100
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.

## 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 4250 MEDIA AND POLITICS IN LATIN AMERICA

Prerequisites: POLS 1150 or POLS 2290
Examination of the role of the media in the political process of Latin America, and the media portrayal of political events in Latin America.

## POLS 4280 THEORY OF INTERNATIONAL RELATIONS

Prerequisite: POLS 2290 and either HIST 1100 or POLS 1100
Relations among nations with emphasis on political realism vs. idealism in international politics, causes of war, and conflict resolution methods. Covers some of the pertinent global issues of the post-Cold War Era; e.g. nuclear proliferation, multinational corporations, environmental and public health, and human rights protection issues.

## POLS 4400 INDEPENDENT STUDY IN COMPARATIVE GOVERNMENT

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. Graded on an satisfactory/unsatisfactory ( $\mathrm{S} / \mathrm{U}$ ) basis.

POLS 4650 PRACTICUM
Prerequisite: permission of instructor or department
Open only to juniors or above. Student will pursue a research topic along with his/her field experience in government, public service or applied politics. Research paper or portfolio required.

POLS 4950 POLITICAL RESEARCH METHODS
3-0-3
Open to juniors and seniors. Methods and techniques of research in the social sciences especially oriented to the needs of the political science major. Emphasis on evaluating research.

POLS 5130U POLITICAL TERRORISM
3-0-3
Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100
International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counterterrorism in a democracy. Crosslisted as CRJU 5130U.

POLS 5500U LAW AND LEGAL PROCESS
Prerequisite: HIST 1100 or POLS 2100 or POLS 1100 or CRJU 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 CRJU 5500U.

POLS 5520U COMPARATIVE JUDICIAL SYSTEMS
Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as CRJU 5520U.

## POLS 5530U GLOBAL ENVIRONMENTAL POLITICS

Prerequisites: POLS 1150 or POLS 2290
Introduction to the politics of environmental issues from local, national, and international perspectives including public perception, competing ideologies, the nature of the political process, the courts, the media, and political institutions.

## POLS 5533U CONTEMPORARY POLITICAL THOUGHT

Prerequisite: POLS 1200 or POLS 1100 or POLS 1200 or HIST 1100 or HIST 1112
Ideological currents of our times. Selected in-depth readings from original sources.

## PSYC-Psychology

## PSYC 1101 INTRODUCTION TO PSYCHOLOGY

Introduction to the vocabulary, concepts, and methods of the science of behavior and mental processes, surveying all areas of psychology.

## PSYC 2200 INTRODUCTION TO PSYCHOLOGICAL RESEARCH

3-1-4
Prerequisite: PSYC 1101 and MATH 2200 with a grade of $C$ or better and 3 credit hours of PSYC beyond PSYC 1101
An introduction to scientific methodology and its application to behavior analysis, with emphasis on data collection methods and statistical techniqes including, but not limited to, correlation, factorial ANOVA, and nonparametric procedures. Students are required to perform statistical analyses using SPSS statistical programs, conduct an original psychological investigation, and write an APA style report of the research.

## PSYC 2950 DEVELOPMENTAL PSYCHOLOGY

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 3010 JUNIOR SEMINAR

Prerequisite: PSYC 1101 and permission of instructor or department head
Open only to psychology majors. Reading and discussion group concentrating on selected contemporary issues in psychology, ethics, and careers.

## PSYC 3020 PSYCHOLOGICAL TESTING

## Prerequisite: PSYC 1101

Individual and group tests in psychological, educational, and clinical settings. Focus on the theoretical and statistical principles that underlie psychological and educational measurement and standardized psychological instruments, and ethical issues in psychological testing.

## PSYC 3030 EXPERIMENTAL SOCIAL PSYCHOLOGY

## Prerequisite: PSYC 1101

Behavior of others as determinants of the behavior of the individual, identifying factors that shape feelings, behavior, and thoughts in social situations.

## PSYC 3050 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.

PSYC 3060 BEHAVIOR MODIFICATION
3-0-3
Prerequisite: PSYC 1101
Research based methods of generating behavioral change, their empirical foundations and their applications in clinical, educational, and social settings.

## PSYC 3070 PERCEPTION

3-0-3
Prerequisite: PSYC 1101
Experimental and theoretical analysis of the nature of perceptual processes.

## PSYC 3090 PHYSIOLOGICAL PSYCHOLOGY

Prerequisite: PSYC 1101 and BIOL 1107 and BIOL 1108 each with a grade of C or better
Structure and function of the nervous system and its relationship to behavior.

## PSYC 3100 PSYCHOLOGY OF HUMAN SEXUALITY

Prerequisite: PSYC 1101
An examination of the developmental, physiological, clinical, and social aspects of human sexuality. Emphasis on the various components of human sexuality from a developmental perspective.

## PSYC 3110 THEORIES OF PERSONALITY

## PSYC 3150 CONFLICT RESOLUTION

Prerequisite: PSYC 1101
Social processes of conflict between parties (individuals or groups) and techniques for collaborative resolutions, with special emphasis on mediation processes.

## PSYC 3160 CLINICAL PSYCHOLOGY

Prerequisite: PSYC 1101
Behavioral problems, treatment modes, and theories.

## PSYC 3190 ANIMAL BEHAVIOR

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
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

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

Prerequisite: PSYC 1101
Scientific and cultural bases of various conceptions of undesirable behavior, emphasizing application of principles derived from basic research.

## PSYC 3300 LEADERSHIP AND GROUP DYNAMICS

Prerequisite: PSYC 1101
Exploration of the social psychological approach to leadership development and the role of the leader in influencing group dynamics. Emphasis on the application of research findings in social psychology to the development of leadership skills.

## PSYC 3500 COGNITIVE PSYCHOLOGY

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

Analysis of the aging process as a physical and biosocial change. Important adaptive aspects with an emphasis on maintaining an optimal quality of life

History of the concept of the self, and the use of current psychological theory and research to understand and explain the constructs of self-concept and self-esteem.

Prerequisite: junior standing, permission of department head, and agreement by a faculty member to supervise the research.
Uncompensated research to be assigned and directed by a faculty member of the Department of Psychology. Students will conduct research which may include a literature search, field or laboratory observation and experimentation, data reduction and analysis, and written and/or oral presentation of results. The research experience will be evaluated by a rotating committee of the departmental faculty before the initiation of the project, and again upon completion of the work. Credit will vary depending on the work to be completed. Course may be repeated up to a total of six (6) credit hours.

## PSYC 4000 MEASUREMENT

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 4010, -20, 30 SPECIAL TOPICS IN PSYCHOLOGY

Upper-level courses not otherwise offered in the psychology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor. Special topics courses may satisfy sections II-V of the major course requirements at the discretion of the department head.

## PSYC 4080 LEARNING AND MOTIVATION

Prerequisite: PSYC 1101 and PSYC 2200
Methodology and theory associated with the various forms of learning and their motivational concomitants. Laboratory introduction to animal care, training, and experimentation. Student research project required.

PSYC 4100 HISTORY AND SYSTEMS OF PSYCHOLOGY
3-0-3
Prerequisite: PSYC 1101 and ANTH 1102 with a grade of C or better and either senior standing or permission of instructor
Topics covered include early animism, Cartesian dualism, British asssociationism, Darwinian adaptation, consciousness, the unconscious, various behaviorisms, and congnitive science. Special attention is given to the influence of philosophy in the history of psychology.

## PSYC 4120 SENIOR PROJECT

3-0-3
Prerequisite: PSYC 1101 and permission of supervising instructor
Open only to seniors. Project with a faculty member qualified in the student's area of interest to begin in the first semester of the senior year (register for the semester of expected completion). Scholarly paper acceptable to the departmental faculty required.

## PSYC 4130 SENIOR INTERNSHIP

Prerequisite: PSYC 1101 and permission of supervising instructor
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.

PSYC 4140 CLASSROOM LEADERSHIP PRACTICUM
3-0-3
Prerequisite: PSYC 1101, a grade of A in the course for which the student will serve as a student leader, permission of supervising instructor, and approval of department head
Focuses on the scholarship of teaching psychology. Student provides academic support and mentoring. The course instructor will establish responsibilities and performance criteria, which may include, but are not limited to, mentoring, leading or co-leading class discussions, planning and delivering course presentations under supervision, and assisting with the development of class and out-of-class activities. Scholarly paper that integrates the literature on the teaching of psychology with actual experience is required.

## PSYC 5150U CONFLICT RESOLUTION

Prerequisite: PSYC 1101
Social processes of conflict between parties (individuals or groups) and techniques for collaborative resolutions, with special emphasis on mediation processes.

Applications of psychological principles to business and professional settings, including work motivation, goal setting, power politics, leadership, communication, and organization development.

## PSYC 5750U PSYCHOLOGY OF AGING

Analysis of the aging process as physical and biosocial change. Important adaptive aspects with an emphasis on maintaining an optimal quality of life.

## PUBH-PublicHealth

PUBH 5550U NUTRITION
Basic concepts of nutrition as major component to the enhancement of health.

## PUBH 5555U HEALTH AND HUMAN PERFORMANCE 3-0-3

Effects of physical activity on health enhancement and maintenance. Bioenergetics, physical assessment methods, equipment, and exercise prescription.

## PUBH 5560U INTRODUCTION TO INTERNATIONAL HEALTH

Introduction of the application of public health and its relationship to other health disciplines in the field of international health.

## PUBH 5565U STRATEGIES FOR THE PREVENTION OF

 CHEMICAL DEPENDENCY3-0-3
Educational strategies and techniques related to prevention of chemical dependency.

## PUBH 5570U WOMEN AND MINORITY HEALTH ISSUES 3-0-3

The exploration of contemporary public health issues concerning women and minorities.
PUBH 5575U HEALTH AND SEXUALITY
Investigation of human sexuality and its effects on health.

PUBH 5580 HEALTH AND HUMAN DEVELOPMENT
Lifestyle and socio-political factors rlated to optimum health per age and grouping emphasized.

## PUBH 5800U EPIDEMIOLOGY OF CANCER

This course will examine the epidemiology of cancer in contemporary populations.

## RADS - Radiologic Sciences

RADS 3000 INTRODUCTION TO RADIOLOGIC SCIENCES 2-1-2
Open only to majors in radiologic sciences. Professional organizations, specialties, accreditation, certification, licensure, professional development, ethics legal issues, radiation protection methodology, and elementary imaging concepts.

## RADS 3050 PATIENT CARE AND INTERACTION

Open only to majors in radiologic sciences. Physical and psychological needs of the family and patient, patient transfer techniques, interaction with the terminally ill, vital signs, administration of injections and pharmaceuticals, IV and tube maintenance, urinary catheterization, 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

Open only to majors in radiologic sciences. Factors influencing radiographic quality and conditions influencing exposures, technique charts and artifact analysis.

## RADS 3073 RADIOGRAPHIC PROCEDURES III

## Prerequisite: RADS 3072

Procedures involving bony thorax, pelvic girdle, facial bones, cranium, heart, breast, and reproductive organs. Includes 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

## Prerequisite: MATH 1111

Mechanics, electromagnetic physics and nuclear physics as they relate to the medical setting.

## RADS 3100: MEDICAL COMMUNICATION SKILLS (1-1-1)

Prerequisite: ENGL 1101 and permission of instructor or department.
Content is designed to expand the knowledge base and skills necessary for the practitioner to communicate effectively.

## RADS 3150 RADIOBIOLOGY AND RADIATION PROTECTION

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 RADIOGRAPHY CLINICAL EDUCATION I

Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3050 and RADS 3060 and RADS 3071
Supervised clinical practice in performing radiographic procedures.

## RADS 3162 RADIOGRAPHY CLINICAL EDUCATION II

 0-20-3Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3072 and RADS 3161
Supervised clinical practice in performing radiographic procedures.

## RADS 3190 PRINCIPLES OF RADIATION THERAPY

Prerequisite: permission of instructor or department and RADS 3000
An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery.

## RADS 3200 RADIOGRAPHIC PATHOLOGY

3-0-3 Prerequisite: BIOL 2082
A survey of human pathology as demonstrated by radiologic imaging. Includes ultrasound, CT, MRI and radiographic images of cancer, vascular diseases, trauma, anomalies and other disease processes. Open to non-majors.

## RADS 3301 RADIATION THERAPY CLINICAL EDUCATION I

0-20-2
Prerequisite: permission of instructor or department and formal admission to the radiation therapy track
A supervised clinical experience in the application and delivery of radiation therapy.

## RADS 3302 RADIATION THERAPY CLINICAL EDUCATION II

0-20-2
Prerequisite: permission of instructor or department and RADS 3301
A supervised clinical experience in the application and delivery of radiation therapy.

## RADS 3450: LEADERSHIP IN HEALTHCARE

Prerequisite: ENGL 1101 and permission of instructor or department.
This course introduces leadership concepts, focusing on the contemporary theories of leadership. Instructional areas include servant leadership, moral roots of responsible leadership, and effectiveness. A course component will include a leadership service learning practicum.

## RADS 4050 QUALITY MANAGEMENT IN RADIOGRAPHY

## RADS 4090 RADIOGRAPHIC PHYSICS

Prerequisite: RADS 3090
Interaction of radiation with matter, formation of photographic and electronic images, and the physics of nuclear magnetic imaging and computer tomography.

## RADS 4111 ADVANCED IMAGING IN MRI

Prerequisite: permission of instructor or department and RADS 4090
Instrumentation, operation, and clinical uses of magnetic resonance imaging.

## RADS 4112 ADVANCED IMAGING IN CT

Prerequisite: permission of instructor or department and RADS 4090
Instrumentation, operation, and clinical uses of computed tomography.
RADS 4113 ADVANCED IMAGING IN MAMMOGRAPHY
Prerequisite: permission of instructor or department and RADS 4090
Instrumentation, operation, and clinical uses of mammography.

## RADS 4114 ADVANCED IMAGING IN CVIT

Prerequisite: permission of instructor or department and RADS 4090
Instrumentation, operation, and clinical uses of cardiovascular interventional radiology.
RADS 4163 RADIOGRAPHY CLINICAL EDUCATION III
Prerequisite: permission of instructor or department and RADS 3162
Supervised clinical practice in performing radiographic procedures.

## RADS 4164 RADIOGRAPHY CLINICAL EDUCATION IV

Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 4163
Supervised clinical practice in performing radiographic procedures.

## RADS 4164S RADIOGRAPHY SYNTHESIS SEMINAR

Corequisite: RADS 4164 or permission of instructor
Discussion of theoretical concepts of radiography as they relate to practice.

## RADS 4171 MAGNETIC RESONANCE CLINICAL EDUCATION

Prerequisite or Corequisite: RADS 4111 or permission of instructor.
Supervised clinical practice in performing magnetic resonance imaging procedures.

## RADS 4172 COMPUTED TOMOGRAPHY CLINICAL EDUCATION

Prerequisite or Corequisite: RADS 4112 or permission of instructor.
Supervised clinical practice in performing computed tomography procedures.

## RADS 4173 MAMMOGRAPHY CLINICAL EDUCATION

Prerequisite or Corequisite: RADS 4113 or permission of instructor.
Supervised clinical practice in performing mammography procedures.
RADS 4174 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION
Prerequisite or Corequisite: RADS 4114 or permission of instructor.
Supervised clinical practice in performing cardiovascular interventional procedures.

## RADS 4175 ADVANCED CLINICAL EDUCATION

Prerequisite: permission of instructor or department head
A clinical experience in the advanced area of magnetic resonance imaging, computerized tomography, mammography, or cardiovascular interventional radiology.

## RADS 4202 RADIATION ONCOLOGY II

## Prerequisite: RADS 4201

A study of neoplastic disease and treatment interventions related to the reproductive, head and neck, breast, lymphoreticular, skeletal, integumentary, endocrine, and central nervous systems.

## RADS 4240 RADIATION THERAPY PHYSICS

Prerequisite: permission of instructor or department and RADS 3090
A detailed analysis of radiation production, nuclear transformations, and interactions with matter. Discussions regarding radiation detectors, instrumentation, dose absorption, dose distribution, and biological effects are included.

## RADS 4260 TREATMENT PLANNING

Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 4240
A study of principles used to plan and deliver radiation treatments. Discussions regarding isodose distributions, contouring, beam filtration, planning protocols, brachytherapy, and emerging technologies are included.

## RADS 4280 QUALITY MANAGEMENT IN RADIATION THERAPY

Prerequisite: permission of instructor or department, RADS 4240
An examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, records, and billing management are discussed.

## RADS 4303 RADIATION THERAPY CLINICAL EDUCATION III

Prerequisite: permission of instructor or department and RADS 3302
Supervised clinical experience in the application and delivery of radiation therapy.

## RADS 4304 RADIATION THERAPY CLINICAL EDUCATION IV

Prerequisite: permission of instructor or department and RADS 4303
Supervised clinical experience in the application and delivery of radiation therapy.

## RADS 4304S RADIATION THERAPY SYNTHESIS SEMINAR

Corequisite: RADS 4304 or permission of instructor
Discussion of theoretical concepts of radiation therapy as they relate to practice.
RADS 4305 RADIATION THERAPY CLINICAL EDUCATION V
Prerequisite: permission of instructor or department and RADS 4304
Capstone clinical education course in the application and delivery of radiation therapy.

## RADS 4305S RADIATION THERAPY SEMINAR <br> 0-3-1

Prerequisite or corequisite: RADS 4305
Discussion of theoretical concepts of radiation therapy.
RADS 4410 CROSS-SECTIONAL ANATOMY
Prerequisite: permission of instructor or department
Three-dimensional anatomical relationships of cross-sectional anatomy slices and images produced by computer tomography and magnetic resonance imaging.

RADS 4420 SENIOR RADIOGRAPHY SEMINAR
Discussion of theoretical concepts of radiography.

## RADS 4440H THESIS IN RADIOLOGIC SCIENCES

Prerequisite: admission to honors program
A research project under the supervision of a radiologic sciences faculty committee. The project must include a thesis and oral presentation. This course will substitute for RADS 4430.

## RADS 4450 RADIOLOGY MANAGEMENT AND LEADERSHIP

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

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

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

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 2110 MEDICAL TERMINOLOGY
Prerequisite: ENGL 1101
The language of medicine and health care: word construction, definitions, spelling, abbreviations, symbols and information technology systems. Development of ability to comprehend and discuss medical records and professional journals. Development of effective written and oral communication skills.

## RESP 3110 PATIENT ASSESSMENT

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

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

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

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

Prerequisite: RESP 3210 and RESP 3220 and RESP 3230 and RESP 3252C
Corequisite: RESP 3353C and RESP 3320
The history, terminology, fundamental principles, and concept of life support technology. Lab experience emphasizes ventilator classification, evaluation, and management.

## RESP 3320 SUBACUTE/HOME CARE

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 and RESP 3320
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

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

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
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

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 care of the chronically ill patient. Introduction to the role of the RCP in pediatric/neonatal ICU.

## RESP 4210 CARDIOPULMONARY MEDICINE

Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C
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

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
Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C
Corequisite: RESP 4210 and RESP 4220 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

Prerequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4154C
Corequisite: RESP 4210 and RESP 4220 and RESP 4230
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.

## RGT_-Regents' Test Preparation

## 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.

## RGTE 0199 COMPOSITION REVIEW

Prerequisite: ENGL 1101 and ENGL 1102
Preparation of students for success on essay portion of Regents' examination through intensive writing of essays.

## SCED - Education - Secondary

SCED 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.

## SCIE - Science

## SCIE 1000 INTRODUCTION TO SCIENTIFIC INQUIRY

3-0-3
Examination of the methods of science. Traces the evolution of scientific thought from the perspectives of physics, chemistry and biology. Focuses on major concepts in the natural sciences through a quantitative approach.

## SCIE 1212 CHEMICAL ENVIRONMENT

## 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.

## SCIE 1212L CHEMICAL ENVIRONMENT LAB

Corequisite: PHSC 1212
Laboratory investigations of the fundamental concepts, laws, and theories of chemistry.

## SLPA -Speech/Language Pathology

SLPA 1220 INTRODUCTION TO COMMUNICATION DISORDERS $\quad \mathbf{3 - 0 - 3}$
Types, characteristics, etiologies, and treatment methodologies of various communication disorders in children and adults.

## SLPA 2230 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

3-0-3
Anatomy and physiology of areas of respiration, phonation, articulation, cerebration/nervous system and audition; functional correlates to the communication process. Supplemental lab experience required. Field experiences required.

SLPA 2250 PHONETICS
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
Prerequisite: admission to teacher education and SLP program
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
Prerequisite: admission to teacher education and SLP program
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 <br> 3-0-3

Prerequisite: SLPA 3150
Etiology, characteristics, classification, assessment, and treatment of language disorders. Field experiences required.

## SLPA 3430 ORGANICALLY-BASED COMMUNICATION DISORDERS

## 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

Prerequisite: SLPA 3150
Etiology, characteristics, classification, assessment, and treatment of articulation and phonological disorders. Field experiences required.

## SLPA 4140 NON-VERBAL COMMUNICATION

Prerequisite: SLPA 3150
Basic knowledge and usage of various non-verbal communication systems.

## SLPA 4170 INTRODUCTION TO DIAGNOSTIC PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY <br> Prerequisite: SLPA 3450 and SLPA 3420 and SLPA 3430 <br> Corequisite: SLPA 4180 and SLPA 4190 <br> Assessment principles and practices in speech-language pathology.

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SLPA 4180 DIRECTED OBSERVATIONS IN SPEECH-LANGUAGE PATHOLOGY
1-3-3
Prerequisite: SLPA 3420 and SLPA 3430 and SLPA 3450
Corequisite: SLPA 4170 andSLPA 4190
Focused observations of current practices in speech-language pathology.
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SLPA 4190 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY
Prerequisite: SLPA 3420 and SLPA 3430 and SLPA 3450
Corequisite: SLPA 4170 and SLPA 4180
Introduction to organization, scope, and requirements of clinical practicum.

## SLPA 4210 SENIOR SEMINAR

Prerequisite: permission of instructor
Corequisite: SLPA 4450
Contemporary issues, principles, and practices specific to speech-language pathology.

## SLPA 4350 SPEECH SCIENCE

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

Prerequisite: permission of instructor
Introduction to scientific methodology and its application to the field of communication disorders.

## SMED-SportsMedicine

SMED 5060U PHYSIOLOGICAL FOUNDATIONS OF SPORT AND PHYSICAL ACTIVITY $\mathbf{3 - 0 - 3}$
The scientific basis of sports training and the physiological adaptations necessary in specific athletic activities. Crosslisted as PECI 5060.

## SMED 5070U THEORY AND METHODOLOGY OF STRENGTH \& CONDITIONING

## Prerequisite: none

The efficacy of methods and models of sports training and activities requiring intensive strength and conditioning programs.

## SMED 5080U PERFORMANCE EVALUATION AND EXERCISE TESTING <br> 1-4-3

## Prerequisite: none

Study of laboratory and field based techniques using biomedical instrumentation for assessment of physiological responses. Effective appraisal and exercise prescription in various populations is emphasized.

## SMED 5090U NUTRITIONAL ISSUES IN SPORTS MEDICINE

## Prerequisite: none

Impact of various nutritional regimens on performance and recovery in athletics.

## SMED 5300U BIOMECHANICAL ANALYSIS OF HUMAN MOVEMENT AND MUSCULOSKELETAL INJURY 3-0-3

 Mechanical principles and qualitative movement analysis applied to understanding mechanism, treatment, and prevention of musculoskeletal injury. Application of biomechanical principles to integrate joint mechanics with a systems approach to prevent injury and optimize human performance. Case studies will be used throughout the course.
## SMED 5945U INTERNSHIP IN SPORTS MEDICINE I

V-V-(1-3)
Prerequisite: permission of instructor
On-site clinical experiences closely supervised by university faculty and facility instructors in the wellness/health promotion, adult fitness or cardiac rehabilitation settings. Weekly seminars will address current clinical issues in the selected population. May be taken for repeat credit.

## SMED 5946U INTERNSHIP IN SPORTS MEDICINE II <br> V-V-(1-3)

Prerequisite: permission of instructor
On-site clinical experiences closely supervised by university faculty and facility instructors in the advanced athletic training, human performance assessment, conditioning, and sport coaching settings. May be taken for repeat credit.

## SMED 5990U SPECIAL TOPICS IN SPORTS MEDICINE I

3-0-3
Current issues and selected topics in sports medicine, this course is designed as an individual offering to meet specific program goals. Special assignments, agreed to by an advisor, may be used to provide a unique experience in an educational setting consistent with the student's professional objectives and program focus

## SOCI - Sociology

SOCI 1101 INTRODUCTORY SOCIOLOGY
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 or CRJU 1100
Racial, ethnic, cultural, and religious strife and the tension between freedom and equality in democratic societies. Focus on the governmental definition of hate crimes and the historical, economic, and political roots of such crimes. Crosslisted as CRJU 3130.
are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed with CRJU 3180

SOCI 3200 RACIAL AND ETHNIC MINORITIES
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
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

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 3450 POLITICAL SOCIOLOGY OF NATIONALISM

Various theories of nationalism and their social, historical economic and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic and anticolonial nationalism are examined in a global perspective.

## SOCI 3500 SOCIAL PROBLEMS

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

Prerequisite: CRJU 1100 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

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 (3) credit hours in one discipline, for a maximum of ten (6) credit hours.

## SOCI 4010, -20, -30 SPECIAL TOPICS IN SOCIOLOGY

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

## SPAN - Spanish

## SPAN 1050 SPANISH FOR HEALTH CARE SYSTEMS

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

Prerequisite: eligibility for ENGL 1101
Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

## SPAN 1002 ELEMENTARY SPANISH II

3-0-3
Prerequisite: eligibility for ENGL 1101 and SPAN 1001 equivalency
Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

## SPAN 2001 INTERMEDIATE SPANISH <br> 3-0-3

Prerequisite: eligibility for ENGL 1101 and SPAN 1002
Emphasis on Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

SPAN 2002 INTERMEDIATE SPANISH II $\quad \mathbf{3 - 0 - 3}$
Prerequisite: eligibility for ENGL 1101 and SPAN 2001
Continuation of SPAN 2001. Promotion of further awareness of Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

## SPAN 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 <br> 3-0-3

Prerequisite: SPAN 2002
Continuation of Spanish 3031.
SPAN 3050 ADVANCED GRAMMAR AND SYNTAX $\mathbf{3 - 0 - 3}$
Prerequisite: SPAN 2002
Advanced grammar and syntax, exercises, essays, and translations.
SPAN 3060 ADVANCED GRAMMAR AND SYNTAX FOR NATIVE SPEAKERS
Prerequisite: eligibility for SPAN 2002 and permission of instructor or department Grammar and syntax for native speakers.

## SPAN 3111 CIVILIZATION AND CULTURE OF SPAIN

Prerequisite: SPAN 2002
Civilization and culture of Spain from the pre-Roman era to the present.

## SPAN 3120 CIVILIZATION AND CULTURE OF LATIN AMERICA

Prerequisite: SPAN 2002
Civilization and culture from the pre-Columbian era to the present.

## SPAN 3200 INTRODUCTION TO LITERATURE

Analysis of Hispanic poetry, prose, and drama.

## SPAN 3210 SURVEY OF SPANISH PENINSULAR LITERATURE I <br> 3-0-3

Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the jarchas to the Enlightenment, while including medieval and golden age literature.

## SPAN 3220 SURVEY OF SPANISH PENINSULAR LITERATURE II

Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the Enlightenment to the present. Focus on romanticism, the generation of 1898, the generation of 1927, and post-civil war literature.

## SPAN 3230 SURVEY OF SPANISH AMERICAN LITERATURE I

Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America through representative samples of indigenous works, Chronicles of the Indies, the baroque, romanticism, and modernism.

## SPAN 3240 SURVEY OF SPANISH AMERICAN LITERATURE II

Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America from the Mexican Revolution to the present.

## SPAN 3510, -20 STUDY ABROAD

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

Prerequisite: SPAN 3200
Hispanic literature: subject announced when course offered.

## SPAN 4020 SPECIAL AUTHOR

Prerequisite: SPAN 3200
Hispanic literature: subject announced when course offered. Thematic studies such as the picaresque and the anti-hero.

## SPAN 4040 SPANISH PHONETICS

Prerequisite: eligibility for SPAN 2002
Spanish phonological system.
SPAN 4060 CONTEMPORARY SPANISH AMERICAN NOVEL
Analytical methods and approaches toward understanding the twentieth-century novel and its impact on world literature. Discussion of magical realism, marvelous realism, the testimonial novel, and the novel of the dictator.

## SPAN 4070 CONTEMPORARY SPANISH PENINSULAR NOVEL

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

## SPAN 4090 SPANISH AMERICAN THEATRE

## 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

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

Prerequisite: permission of instructor or department and SPAN 2002
Open to transient students only with permission of the department head.

## SPAN 4990 LANGUAGE INTERNSHIP

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.

## SPED - Special Education

SPED 2001 THE FIELD OF SPECIAL EDUCATION: PAST AND FUTURE
The field through an historical overview of the issues, cultural and social influences, trends, state and federal legislation, as well as case law that formed and continues to shape the field of special education.

## SPED 2002 CHARACTERISTICS OF STUDENTS WITH DISABILITIES

Prerequisite: admission to the College of Education
Overview of the characteristics of children and adolescents with mild to severe disabilities and special education services designed for these children. On-site study projects at a variety of special education service sites.

SPED 3001 TECHNOLOGY FOR THE SPECIAL EDUCATOR
Prerequisite: admission to the College of Education
The use of adaptive technology, methods for linking technology and instruction, techniques for selecting and utilizing computer based instructional programs, and methods for developing multimedia, interactive instructional materials.

SPED 3002 ADAPTIVE PHYSICAL EDUCATION FOR STUDENTS WITH DISABILITIES
Instruction in methods for adapting physical education for and offering recreational therapy to students with disabilities ranging from mild to severe. Includes practicum.

SPED 3004 ASSESSMENT, ELIGIBILITY, AND IEP DEVELOPMENT: PRESCHOOL AND ELEMENTARY LEVELS
Prerequisite: admission to special education and SPED 2002
Prerequisite or corequisite: SPED 3003
Instruction in formal and informal assessment techniques and instruments appropriate for use with preschool and elementary school children. Preferral and referral processes, assessment, plans, eligibility criteria for services, due process, and development of the individual education plan (IEP). Includes practicum.

## SPED 3005 ASSESSMENT, ELIGIBILITY, AND IEP DEVELOPMENT:

## MIDDLE GRADES AND SECONDARY LEVELS

Prerequisite: admission to special education and SPED 2002
Prerequisite or corequisite: SPED 3003
Instruction in formal and informal assessment techniques and instruments appropriate for use with middle grades and secondary level students. Preferral and referral processes, assessment, plans, eligibility criteria for services, due process, and development of the individual education plan (IEP). Includes practicum.

## SPED 3500 CHARACTERISTICS OF BEHAVIORAL DISORDERS

Characteristics of the types of emotional and behavior disorders encountered among children and youth are reviewed along with currently accepted theories and systems for their behavioral and educational management.

## SPED 3510 METHODS FOR TEACHING STUDENTS WITH BEHAVIORAL

 DISORDERSIndividualized and group methods of teaching students with behavior disorders are analyzed. An ecological developmental approach to behavioral and educational needs is emphasized.

SPED 4000 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH INTELLECTUAL DISABILITIES
Prerequisite: admission to special education and SPED 2002 and SPED 3001
Prerequisite or corequisite: SPED 3003
Instruction in curriculum development, technology enhanced methods of instruction, and research based teaching techniques designed for students with intellectual disabilities. Includes practicum.

## SPED 4001 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH MULTIPLE/SEVERE DISABILITIES <br> Prerequisite: admission to special education and SPED 2002 and SPED 3001 <br> Prerequisite or corequisite: SPED 3003 <br> In-depth instruction in research based and technology enhanced methods for teaching students with multiple and/or severe disabilities.

Strategies and techniques for teaching mathematics through research based and technology enhanced approaches. Includes practicum.

SPED 4003 TEACHING READING, SPELLING, AND WRITTEN EXPRESSION TO STUDENTS WITH DISABILITIES
Prerequisite: admission to special education and SPED 2002 and SPED 3001 and SPED 3003 and SPED 3004 and SPED 3005
Research based, multisensory, technology enhanced strategies and techniques for teaching reading, spelling, and written expression skills in an integrated process. Includes practicum.

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## SPED 4005 STRATEGIES FOR DEVELOPING SOCIAL SKILLS AND <br> BEHAVIORAL CONTROLS <br> 3-3-3

Prerequisite: admission to special education and SPED 2002 and SPED 3001 and SPED 3003 and SPED 3004 and SPED 3005
Instructional methods for teaching conflict management, social interaction skills, language pragmatics, and social skills conducive to learning. Exploration of social issues and influences. Includes practicum.

## SPED 4006 PLANNING AND MANAGING THE LEARNING ENVIRONMENT

Prerequisite: admission to special education and SPED 2002 and SPED 3001 and SPED 3003 and SPED 3004 and SPED 3005 and SPED 4002 and SPED 4003
Time management, unit planning, establishing an appropriate classroom environment, scheduling, selection and organization of instructional material, development of high quality teacher made materials. Includes practicum.

## SPED 4007 DIRECTED FIELD BASED RESEARCH

1-3-3
Prerequisite: completion of 32 hours of major course work
Opportunities for pre-service teachers to engage in field based research in special education. A capstone course. May serve as an honors course.

## SPED 4008 COLLABORATIVE PROCEDURES FOSTERING INCLUSION AND TRANSITION <br> Corequisite: SPED 4009 <br> Strategies for working collaboratively with parents, guardians, general education teachers, and professionals to plan successful inclusion and transition practices for students with disabilities. Includes practicum.

## SPED 4009 STUDENT TEACHING <br> 3-1-3 <br> Prerequisite: admission to student teaching and passing score on PRAXIS II Corequisite: SPED 4008 <br> Supervised field based teaching experiences. A capstone course. Includes a minimum of three seminars.

## SSCI - Social Science

SSCI 2960 FOREIGN LANGUAGE AND CULTURE
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.

## TECH-Technology

TECH 5000U INTEGRATING TECHNOLOGY IN THE STUDENT-CENTERED CLASSROOM (INTech)

V-V-3
A hands on laboratory experience that will provide the skills necessary to seamlessly integrate technology into the curriculum. This course will satisfy the State of Georgia's technology recertification requirements for $\mathrm{P}-12$ educators.

## TECH 5010U TEACHERS DISCOVERING COMPUTERS

Pre-requisite/Co-requisite: None
Online computer course for educators that focuses strategies to effectively integrate technology into the classroom.

## THEA - Theatre

Survey and critical appreciation of theatre.

## THEA 1400 THEATER VOICE I

Corequisite: MUSC 2540
Fundamentals of voice training and introduction to repertoire.
THEA 1500 THEATER VOICE II
Prerequisite: THEA 1400 or permission of instructor
Corequisite: MUSC 2540
Continuation from THEA 1400.
THEA 2270 THEATER LAB
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.

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

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 $\mathbf{3 - 0 - 3}$
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
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 3100 AUDITIONS

Prerequisite: THEA 2410, THEA 3000, or permission of instructor
1-0-1
Theory and techniques of auditioning. Types of auditions, material selection, and editing will be covered.

## THEA 3270 VIDEO LAB

0-1-1
Prerequisite: ENGL 1102
Practical experience in video production through work on approved projects under supervision of Armstrong 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
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 $\mathbf{3 - 0 - 3}$
Theatrical art of the world, emphasizing theatrical conventions from the Restoration to the present.

## THEA 3460 PLAY DIRECTING

Theory and practice of play directing, including preparing and executing short scenes and plays.

## THEA 3470 THEATRE MANAGEMENT

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 3570 THEATRE MANAGEMENT II: MARKETING THE ARTS <br> 3-0-3

Prerequisite: THEA 3470 and permision of instructor
Emphasis is on audience analysis and development. Publicity, promotions, and marketing tools examined.

## THEA 3600 SCRIPT ANALYSIS <br> 3-0-3

Prerequisite: ENGL 1101
Assessment of script demands from the performance perspective of the actor, designer and director.

## THEA 3650 THEATRE CRITICISM

Prerequisite: THEA 1100 or THEA 1200 or THEA 2410
A study of dramatic theory from the Greeks to the present.

## THEA 3700 SCENE DESIGN <br> 3-0-3

Prerequisite: THEA 3040 or THEA 3600 or permission of instructor or department
Principles of scenography. Emphasis on drafting, rendering and model construction.

## THEA 3740 MAKE UP DESIGN <br> 3-0-3

Prerequisite: THEA 1100 or THEA 1200 or THEA 2410 or permission of instructor or department Principles of the art and techniques of make up design.

## THEA 3750 LIGHT DESIGN

Prerequisite: THEA 3040 or THEA 3600 or permission of instructor or department
Intensive study of technical and design elements of stage lighting. Survey of equipment and techniques standard in performance industry.

## THEA 3800 INTRODUCTION TO VIDEO PRODUCTION

3-0-3
Prerequisite: permission of instructor
Overview of various forms of single camera video and film production. Topics include creation of TV commercials, instructional videos, etc. Emphasis on producing narrative.

## THEA 3850 PROBLEMS IN DESIGN

3-0-3
Prerequisite: THEA 3040 or permission of instructor
Exploration of unique approaches to scenic design. Environmental spaces, drop productions, designing for the round to be covered.

## THEA 3900 PLAY PRODUCTION

3-0-3
Prerequisite: THEA $1100,1200,2410$ or permission of instructor
Theory and techniques in all aspects of mounting a stage production: play selection, casting, rehearsal process, performance demands, FOH , SM duties, running duties covered. Course culminates in performance of finished production. Highly recommended for Theater minors.

## THEA 4000 SPECIAL TOPICS IN THEATRE

Prerequisite: ENGL 1101
Subject announced when course offered. Subjects vary, such as: classical acting styles, absurdist drama, stage combat, scenic painting.

## THEA 4030 CHILDREN'S THEATRE HOUR

Prerequisite: THEA 3030, 3000, 2410 or permission of instructor
Study of production elements and practical experience in producing, performing, and touring children's theatre. Elements include script selection and editing, adaptation to match audience age, etc.

## THEA 4040 STAGECRAFT II

Prerequisite: THEA 3040 or permission of instructor
Exploration of unique material and techniques expected of trained production technician.

## THEA 4420 ACTING FOR THE CAMERA

Prerequisite: THEA 2410, 3000 or permission of instructor An introduction to the techniques of acting for the camera.

THEA 4430 ACTING FOR THE CAMERA II: ADVANCED TECHNIQUES
Prerequisite: THEA 4420 or permission of instructor
A continuation of techniques and methods usedin camera acting.
THEA 4470 STAGE MANAGERS AND DESIGNERS LAB
Prerequisite: permission of instructor or department
Practical experience in stage management, set, light or costume design. Course repeatable to a maximum of 6 credit hours.

THEA 4500 DRAMA WORKSHOP
0-3-3
Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.
THEA 4510 DRAMA WORKSHOP
0-3-3
Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.

## THEA 4900 INDEPENDENT STUDY

V-V-(1-3)
Prerequisite: ENGL 1101
Open only to seniors. Independent study in drama, offered on demand. Open to transient students only with permission of dean of faculty at Armstrong 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 4980 DIRECTING LAB

Prerequisites: THEA 3460 and permission of instructor
Hands on experience of directing duties for mounting full-length stage production from script selection through to public performance.

## THEA 4990 INTERNSHIP

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

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251
Special topics in film announced when the course is offered. Crosslisted as FILM 5010U.

Relationship between film and literature with special emphasis on the adaptation of literature into film. Crosslisted as FILM 5510.

## WBIT - Georgia WeBSIT <br> WBIT 1100 INTRODUCTION TO INFORMATION TECHNOLOGY

Prerequisite: none.
This course is an introductory course in information technology. Topics include foundations in hardware, software, data and an overview of the use of information technology in organizations. Topics include structured programming techniques, systems development, database design and networking, with an emphasis on appropriate business ethics, interpersonal skills and team building.

## WBIT 1310 PROGRAMMING AND PROBLEM SOLVING I

Prerequisites: C or better in an Area A mathematics course and in WBIT 1100
This course helps students to develop basic problem-solving skills using the Java programming language. Students are introduced to fundamentals of Java programming language with emphasis on primitive data types, control structures, methods, arrays, classes, objects, abstraction, inheritance and polymorphism. Students learn basic techniques of good programming style, design, coding, debugging, and documentation. Students are able to create programs to solve basic practical problems.

## WBIT 2000 THE ENTERPRISE AND INFORMATION TECHNOLOGY

Prerequisite: WBIT 1100
This course will look at the structure and management of an information technology infrastructure. From the management aspect the course will touch on principles and practices of managing both people and technology to support an organization. The course will emphasize how to make an information technology infrastructure effective, efficient, and productive. The management of hardware, software, data, networks and other supporting IT functions will be studied.

## WBIT 2300 DISCRETE MATH FOR INFORMATION TECHNOLOGY

Prerequisites: MATH 1113
Discrete (as opposed to continuous) mathematics is of direct importance to the fields of Computer Science and Information Technology. This branch of mathematics includes studying areas such as set theory, logic, relations, graph theory, and analysis of algorithms. This course is intended to provide students with an understanding of these areas and their use in the fields of Computer Science and Information Technology.

## WBIT 2311 PROGRAMMING AND PROBLEM SOLVING II

Prerequisites: WBIT 1310 and WBIT 2300
The emphasis of this course is on advanced programming techniques in Java including GUI's, software reuse through component libraries, recursion, event-driven programming, database processing, file processing, and exception handling. Students are able to create event-driven, graphical programs or text-based programs solving practical problems incorporating databases and external files.

## WBIT 3010 TECHNICAL COMMUNICATION

## Prerequisite: ENGL 1102

This course covers workplace communication at the intermediate level. Topics include audience analysis, research proposal and report writing, document and visual design, editing and presentation design.

## WBIT 3110 SYSTEMS ANALYSIS AND DESIGN

Introduces the fundamental principles of the design and analysis of IT applications. In this course, students will learn to apply the tools and techniques commonly used by systems analysts to build and document IT applications. Classical and structured tools for describing data flow, data structure, process flow, file design, input and output design, and program specification will be studied, as will object-oriented techniques.

## WBIT 3111 INFORMATION TECHNOLOGY PROJECT MANAGEMENT

Prerequisites: WBIT 3110 and MATH 2200
Project management techniques and tools as applied to information systems projects including resource and personnel management and allocation, product testing, scheduling, and project management software. Students will study examples of both successful and unsuccessful projects and apply lessons learned to a class project.

WBIT 3200 DATABASE DESIGN, DEVELOPMENT AND DEPLOYMENT
Prerequisites: WBIT 2311
An advanced course in database design, development and deployment. Course emphasizes database design drawing distinctions between data modeling and process modeling using various modeling techniques including Entity-Relationship Modeling, Object Modeling and Data Flow Diagramming; database development using the relational model, normalization, and SQL; database deployment including control mechanisms, forms, reports, menus and web interfaces. Additional topics include procedures, functions, packages and triggers. Students will design, create and process a database to demonstrate competency in the course content.

## WBIT 3400 INTRODUCTION TO MULTIMEDIA

Prerequisite: WBIT 1100
This course covers the basic design principles and tools for creating multimedia components used in webbased systems; use of tools to create and edit graphics, sounds, and animations to be used in multimedia presentations.

Prerequisite: WBIT 1100
The course provides a survey of techniques and tools for developing basic web pages for delivery of text and graphic information; focus on page markup languages, client-side scripting, page design principles, page layout techniques, markup language syntax, and page styling methods.

## WBIT 3500 ARCHITECTURE AND OPERATING SYSTEMS

Prerequisite: WBIT 1100
This course introduces students to the architectures of computer systems and the operating systems that run on them. It explores and gives experience with some common computer designs and operating systems. Topics include basic computer architecture, instruction set architecture, memory, memory management, processes, and file systems.

## WBIT 3510 DATA COMMUNICATIONS AND NETWORKING

This course covers computer network and communications concepts, principles, components, and practices; coverage of common networking standards, topologies, architectures, and protocols; design and operational issues surrounding network planning, configuration, monitoring, troubleshooting, and management.

## WBIT 3600 INTRODUCTION TO E-COMMERCE

The emphasis of this course is on basic principles and practices of E-business and E-commerce. Topics include infrastructures and applications of Ecommerce, E-Tailing, E-Marketing, advertisement, B2B, B2C, C2C, E-Government, M-Commerce, E-Learning, electronic payment systems, security, and legal issues. Students also learn to build simple dynamic Ecommerce sites using server-side scripting.

## WBIT 4030 SENIOR PROJECT \& PORTFOLIO

## Prerequisite: Senior Standing.

A capstone course for BSIT majors that includes completion of a digital portfolio, an electronic resume representing skills acquired and projects completed. The portfolio will be introduced in an earlier course and students will be expected to add to the portfolio selected assignments during their last few semesters. Faculty will include Portfolio comments and students will be expected to record reflections on accomplishments. Finally, in cooperation with the IT industry, students will be expected to secure an internship and document internship hours, objectives and supervisor evaluations in the Portfolio.

## WBIT 4112 SYSTEMS ACQUISITION, INTEGRATION AND IMPLEMENTATION

## Prerequisites: WBIT 3110, WBIT 3200, and WBIT 4520

Most IT applications used by organizations are configured from components that have been purchased from third-party vendors. This includes both hardware components and, increasingly, software components. In this course, students will study the component acquisition process, and methods and techniques for integrating these components into an existing IT infrastructure.

## WBIT 4120 HUMAN-COMPUTER INTERACTION

Prerequisite: WBIT 2311
Fundamentals of human-machine interfaces, both cognitive and physical. Learning styles and effects of shortterm memory on cognition and reaction will affect hardware and software development. Students will design a prototype interface.

## WBIT 4520 INFORMATION SECURITY

## Prerequisite: WBIT 3500

Pre- or Co-requisite: WBIT 3510
This course is an introduction to information security in computing. Topics include computer, network (distributed) system and cyber security, digital assets protection, data backup and disaster recovery, encryption, cryptography, computer virus, firewalls, terrorism and cyber crimes, legal, ethical and professional issues, risk management, information security design, implementation and maintenance.

## WBIT 4601 CUSTOMER RELATIONSHIP MANAGEMENT

The use of IT applications has allowed many organizations to collect large amounts of data on their clients and to apply such data to improve the relationships with their customers. In this course, students will study customer relationship management systems, including the reasons for their emergence, the functionalities that they provide and the issues one would have to face to successfully introduce a Customer Relationship Management System into an organization.

## WBIT 4602 E-COMMERCE DESIGN AND DEVELOPMENT

## 3-0-3

## Prerequisites: WBIT 2311, WBIT 3200, and WBIT 3600

Students will develop an understanding of the complexities of electronic commerce. The course will include surveys of Internet technologies, web development software, e-commerce models, purchase and payment systems, interfaces with business systems, legal issues, international issues, and marketing and promotion of e-commerce systems. Students will develop prototypical electronic commerce systems.

## WBIT 4610 E-COMMERCE POLICY AND LAW

## Prerequisite: WBIT 3600

This course will focus on the legal implications of conducting business over the Internet, including current understanding of Internet contracts, copyright, trademark and patent law. Further, this course will examine cutting-edge cases relating to e-commerce and emerging ethical issues and trends.

WMST - Women's Studies
WMST 1101 INTRODUCTION TO WOMEN'S STUDIES
Prerequisite: eligibility for ENGL 1101
Introduction to the major issues and problems in the field of women's studies. Investigation and analysis of women's roles in society, theoretical and practical aspects of equuality and gender difference, and the constructions of sex and gender as understood from socio-historical, multi-cultural, and interdisciplinary perspectives. The dynamics and working of gender in such areas as family, work, education, imagery in popular culture, law, technology, environmentalism, sexuality, health, and access to information on reproductive options.

## WMST 2101 ETHICS, VALUES, AND GENDER

3-0-3
Prerequisite: ENGL 1101
An introduction to value theory and ethics focusing on issues of gender and the experience of women. Topics addressed may include equality and difference, free speech and censorship, marriage and the family, reproduction and abortion, love, sex, and friendship, health and medicine, education and learning, feminism and professional ethics, and the challenges of moral relativism.

## WMST 2200 GENDER IN GLOBAL CONTEXTS

Prerequisite: ENGL 1101
Interdisciplinary examination of worldwide cultural differences through the lens of gender.

## WMST 4000 TOPICS IN WOMEN'S STUDIES

3-0-3
Special topics in Women's Studies. Will be cross listed with selected upper-level courses in the university curriculum when content of those courses addresses issues related to Women's Studies. May be repeated for credit with different topics.

WMST 5000U PERSPECTIVES IN FEMINIST THEORY
An in-depth look at Feminist Theory. This course may be taught from the perspective of a particular discipline.

## Business Education Courses (Savannah State University)

## ACCT - Accounting

ACCT 2101 PRINCIPLES OF FINANCIAL ACCOUNTING
Prerequisites: MATH 1111 and CSCI 1130
A study of the underlying theory and application of financial accounting concepts.

## ACCT 2102 PRINCIPLES OF MANAGERIAL ACCOUNTING

Prerequisite: ACCT 2101
A study of the underlying theory and application of managerial accounting concepts.

## BUSA - Business Administration

BUSA 1100 INTRODUCTION TO BUSINESS
An integrative study of the functional areas of business (finance, operations, marketing, human resources, etc.)

## BUSA 2105 COMMUNICATING IN THE BUSINESS ENVIRONMENT

Prerequisite: ENGL 1101and 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

## BUSA 4125 PUBLIC POLICY

## 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

 3-0-3Open 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

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

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

Prerequisite: 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

Prerequisite: 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
Prerequisite: 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 environ-ment, 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
Prerequisite: 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
Prerequisite: 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
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
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

 MANAGEMENTPrerequisite: 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.

## LETC - Law Enforcement Training Center Courses LETC 0071 BASIC LAW ENFORCEMENT SERVICES

## LETC 0072 BASIC LAW

Prerequisite: admission to the basic law enforcement mandate training program
Georgia criminal justice system, Georgia law, rules of evidence, criminal procedures, and officer liability.

## LETC 0073 BASIC LAW ENFORCEMENT PROCEDURES

Prerequisite: admission to the basic law enforcement mandate training program
Topics include cultural diversity, police patrol, courtroom testimony, NCIC/GCIC communications and officer survival.

## LETC 0074 BASIC TRAFFIC SERVICES

3-V-3
Prerequisite: admission to the basic law enforcement mandate training program
Traffic enforcement, traffic control, motor vehicle law, and accident reporting.

## LETC 0075 BASIC LAW ENFORCEMENT SKILLS

3-V-3
Prerequisite: admission to the basic law enforcement mandate training program
Firearms, mechanics of arrest, first aid/CPR, stress reduction, and universal precautions.

## LETC 0076 COMMUNITY RELATIONS

3-0-3
Prerequisite: 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.

## LETC 0077 LAW ENFORCEMENT PRACTICUM

0-V-6
Prerequisite: 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 <br> MILS 1101 INTRODUCTION TO MILITARY SCIENCE AND SKILLS DEVELOPMENT

2-1-2
Instruction provides a basic understanding of the U.S. Army and its role in National Defense. The course includes the following subjects: the role of the U.S. Army in national defense, organization and branches of the U.S. Army, ROTC and its role, customs and traditions of the service, military writing, implementing a personal physical fitness program, role of the ARNG and USAR, and roles of the commissioned and non-commissioned officer. Skills development includes instruction and practical exercises in basic mountaineering skills including knot tying, climbing, belaying, and rappelling. Acceptable as a P.E. requirement.

MILS 1102 BASIC MILITARY LEADERSHIP
2-1-2
Development of critical military skills, leadership, and management techniques. Provides basic leadership techniques and principles, professional ethics, and senior subordinate relationships. One weekend field trip is required.

MILS 2001 EVOLUTION OF WARFARE
2-0-2
Science and art of warfare as practiced by American military leaders from the French and Indian Wars through present times. The role of the U.S. Army is also examinied in its social, economic, and political contexts.

MILS 2201 BASIC MILITARY SKILLS
2-1-2
Instruction and practical exercises covering basic skills necessary as a future leader in the U.S. Army. Includes the following subjects: land navigation and map reading, basic first aid, survival, and communications.

MILS 2202 BASIC MILITARY TACTICS
2-1-2
Instruction introduces students to the fundamentals of Army leadership and management techniques. Focus is placed on the mission, organization, and composition of small unit teams; principles of offensive and defensive operations stressing firepower, movement, and communications techniques; and introduction to troop leading procedures.

## MILS 2250 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.

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
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
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
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
Introduces midshipmen to NROTC Program mission, organization, regulations and broad warfare components of the naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement and retirement policies. This course also covers naval courtesy and customs, as well as a study of the organization of the naval service. Students are familiarized with the major challenges facing today's naval officers, especially, in the areas of leadership and human resources management.

NSCI 1002 SEAPOWER AND MARITIME AFFAIRS
3-0-3
A survey of American Naval and Maritime history from galley warfare to the present with emphasis on major developments. Attention will be focused on Mahan's geopolitical theory; economic and maritime forces; U.S. military and maritime strategy; and a comparative analysis of American and foreign maritime strategies.

Prerequisite: Certification as a third class swimmer
A foundation course that provides students with fundamental knowledge and skills to be competent crew members. The course covers the basic theory of sailing, nomenclature, seamanship, boat equipment and safety, and applicable inland waters navigation rules for sailing craft. Upon completion of this course, students will be Skipper "B" qualified. Practical skills to be mastered consist of rigging and sailing from a pier: sail to weather; sail two figure eight courses with two tacks and two jibes; man overboard maneuver; a capsize; return to dock and secure.

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.

NSCI 2102 LEADERSHIP AND MANAGEMENT 3-0-3
An introduction of management functions as they apply to routine daily military activities. The concepts of planning, organizing, staffing, directing, controlling and coordination are introduced and examined using lecture, seminar and case study methods. The course includes discussions on responsibility and accountability, power and influence, managerial theories, decision making, personnel appraisal, organizational structure and communications. Emphasis is placed on management of personnel and physical resources.

## NSCI 3003, -4 NAVIGATION I AND II

2-2-3
An in-depth study of piloting and celestial navigation theory, principles, and procedures, as well as the rules of the nautical road, ship employment and relative motion analysis. Students learn piloting navigation: the use of charts, visual and electronic aids, and the theory and operation of compasses. Students develop practical skills in piloting, celestial navigation, and relative motion analysis. Other topics include tides, currents, effects of wind and weather, use of navigational instruments, ship employment, types and characteristics of electronic navigation systems, naval command and control, and afloat naval communications.

NSCI 3101 EVOLUTION OF WARFARE
This course traces the historic development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, development and understanding of military alternatives, and become aware of the impact of historical precedent on military thought and actions.

## NSCI 4001 NAVAL SHIPS SYSTEMS II (WEAPONS)

3-0-3
This course outlines the theory and employment of naval RADAR, SONAR, and weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance and naval ordnance. Fire control systems, major weapons types, and military platforms are discussed. The concept of command-control-communications and intelligence is explored as a means of weapons systems integration, as are space and electronic warfare.

NSCI 4050 NAVAL DRILL
0-2-0
Introduces the student to basic military formations, movements, commands, courtesies and honors, and provides practice in unit leadership and management. Physical conditioning and training are provided to ensure students meet Navy/Marine Corps physical fitness standards. Successful completion of two semesters by NROTC students satisfies Savannah State University's physical education requirement. (NSCI 4050 is required every semester for all NROTC students.)

NSCI 4102 AMPHIBIOUS WARFARE
5-0-5
A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the twentieth century, especially, during World War II. Present day, potential, amphibious operations and their limitations, including the rapid deployment force concept, will be discussed.

## NSCI 4104 LEADERSHIP AND ETHICS

3-0-3
A study of military leadership and management which investigates techniques and concepts of task accomplishment in the absence of a normative business environment. The course includes an examination of military law, ethical leadership, personal responsibility, authority and bureaucracy. The focus of discussion is on those aspects of leadership and management not normally present in civilian enterprise such as operation in the presence of hostility and morale management.

# 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.

Adams, Alice M. (2003)
Assistant Professor of Health Sciences
Ph.D., University of Alabama at Birmingham
M.S.H.A., University of Alabama at Birmingham
M.B.A., Tulane University
A.B., Duke University

Adams, Catherine (2004)
Assistant Professor of History
M.A., Michigan State University
B.A., Michigan State University

Adams, David (2001)
Associate Professor of Health Sciences
Ph.D., University of Florida
M.P.H., Ohio State University of Medicine
M.A., Washing University - St. Louis
B.A., Emory University

## 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

## Alexander, Judith (2000)

Associate Professor of Nursing
D.N.S, Indiana University
M.S.N., Indiana University
B.N., University of Manitoba

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)
Special Assistant to the Vice President for
International Education
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)
Associate Professor of Biology
Ph.D., University of Florida
M.S., University of Florida
B.S., University of the West Indies

## Aziz, Hassan (2000)

Interim Department Head of Medical
Technology
Assistant Professor of Medical Technology Ph.D., University of Southern Mississippi M.S., University of Southern Mississippi
B.S., Kuwait University

## Bahrami, Azita (2003)

Coordinator of VeriSign ICAPP
Instructor of Information Technology
Ph.D., University of Missouri - Columbia
M.E., University of Missouri - Columbia
B.A., University of Teacher Education

* 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 Early Childhood Education

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

Barron, Elizabeth (2002)
Assistant Professor of French
Ph.D., University of North Carolina Chapel Hill
M.A., University of North Carolina Chapel Hill B.A., Wake Forest University

* Battiste, Bettye A. (1980)

Associate Professor of Education Ed.D., University of Florida M.Ed., State University of New York B.S., Savannah State College

## Bell, C. Leary (2001)

Vice President of External Affairs
Professor of Mathematics
Ph.D., Auburn University
M.S., Auburn University
B.S., Georgia Southwestern State University

## * Bennett, Katherine (1997)

Associate Professor of Criminal Justice Ph.D., Sam Houston State University M.C.J., University of South Carolina B.S., University of South CarolinaSpartanburg

* Bergin, Joyce (1992)

Professor of Special Education Ed.D., East Texas State University M.Ed., William and Mary College M.L.S., Texas Woman's University B.A., Virginia Polytechnic Institute

Beumer, Ronald J. (1975)
Assistant Department Head of Biology
Professor of Biology
Ph.D., University of Arkansas
B.S., University of Dayton

Bevis, Rhonda Yvonne (2003)
Assistant Professor of Respiratory Therapy Ed.D., University of Georgia M.S., Georgia State University B.A., Troy State University

## Blossman, M. Ellen (1995)

Associate Professor of Spanish Ph.D., Louisiana State University M.A., Louisiana State University
B.A., Louisiana State University

Bowers, Ross L., III (1979)
Head of Respiratory Therapy Department
Assistant Professor of Respiratory Therapy
M.H.S., Armstrong State College
B.S., Georgia State University
A.S., Georgia State University

## Brandt, Patricia (1995)

Associate Professor of Early Childhood
Education
Ed.D., Florida Atlantic University
M.S., California State University
B.A., Houghton College

Braswell, Lee (2002)
Instructor of Radiologic Sciences
B.A.S., Elon College
A.A.A., Pitt College

## Brennan, J. Patrick (2002)

Assistant Professor of Special Education Ed.D., University of Southern Mississippi M.S., University of Southern Mississippi M.Ed., University of Southern Mississippi B.S., Georgia Southern University

## Brawner, James (1997)

Associate Professor of Mathematics
Ph.D., University of North CarolinaChapel Hill
B.A., Williams College

## Brignati, Patricia (2002)

Director, Destination Teaching and GATAPP
Assistant Professor of Middle, Secondary
and Adult Education
M.Ed., Valdosta State University
B.S., College of the Sciences - Philadelphia

## Brooks, Donna (1995)

Associate Professor of Speech-Language
Pathology
Ph.D., Purdue University
M.A., Hampton Institute
B.S., Hampton Institute

Brown, R. David (2002)
Director of Choral Programs
Assistant Professor of Music
D.M.A., University of Arizona
M.Ed., Northern Arizona University
B.M., University of Arizona

* Brush, Sabitra S. (1993)

Associate Professor of Chemistry Ph.D., Florida State University M.S., Florida State University B.S., University of the West Indies

## Bryant, Laurie R. (2003)

Assistant Professor of Dental Hygiene
B.S., Armstrong Atlantic State University
A.S., Armstrong Atlantic State University

## Buck, Joseph A.,III (1968)

Vice President for Student Affairs Ed.D., University of Georgia M.S., Florida State University B.A., Auburn University

* Buck, Marilyn M. (1974)

Assistant Dean of Health Professions
Professor of Nursing
Ed.D., University of South Carolina
M.S.N., Medical College of Georgia B.S.N., Boston University

Budden, Mark R. (2003)
Assistant Professor of Mathematics Ph.D., University of Missouri-Columbia M.A., University of Missouri-Columbia B.S., Louisiana State University

* Burge, Mark (1999)

Associate Professor of Computer Science D.T.S., Johannes Kepler University M.S., Ohio State University B.S., Ohio Wesleyan University

## Burnett, Natalie (2002)

Assistant Technical Service Librarian
Assistant Professor of Library Science M.L.I.S., University of Alabama Tuscaloosa B.A., Auburn University
*Byrd, James T. (1990)
Associate Professor of Chemistry Ph.D., Florida State University M.S.P.H., University of North Carolina Chapel Hill
A.B., University of North Carolina Chapel Hill

Caldwell, Eva (1987)
Associate Professor of Nursing Ed.D., University of Georgia M.S.N., Medical College of Georgia B.S.N., Armstrong State College D.I.P., Grady Memorial College

## Cannon, Uzzie Teresa (2004)

Assistant Professor of Language, Literature \&
Philosophy
M.A., Winthrop University
B.A., Southern Wesleyan University

## Carpenter, Suzanne (1988)

Assistant Professor of Chemistry
M.S., University of North CarolinaChapel Hill
B.S., Auburn University
A.A., Lake-Sumter Junior College

## Cato, Thomas (1993)

Head of Art, Music \& Theatre Department
Associate Professor of Art
Ed.D., University of Georgia
M.Ed., Valdosta State College
B.F.A., Valdosta State College

## Cebula, Richard (1999)

Eminent Scholar in Economics
Professor of Economics
Ph.D., Georgia State University
M.A., University of Georgia
A.B., Fordham College

Childress, Beth (1990)
Assistant Professor of Reading M.A., New York University B.A., Temple University

Clancy, Frank M. (1989)
Assistant Professor of English
M.A., Villanova University
B.S., Villanova University

Coates, Cameron (2002)
Assistant Professor of Engineering Studies Ph.D., Georgia Institute of Technology M.S., Georgia Institute of Technology B.S.A.E., U. S. Naval Academy

* Coberly, Patricia (1996)

Associate Professor of Middle, Secondary, and Adult Education

Ed.D., University of Arkansas
M.Ed., University of Arkansas
B.S., Arkansas Tech University

* Coleman, Jo Ann (1996)

Associate Professor of Middle, Secondary, and Adult Education Ed.D., East Texas State University M.A.T., University of Texas B.A., East Texas State University

Collier, Alex (2003)
Assistant Professor of Biology
Ph.D., Kent State University
B.S., Ohio University

* Connor, Sara E. (1980)

Professor of Nursing
Ed.D., University of Georgia M.S.N., Medical College of Georgia B.S.N., Medical College of Georgia

## Cook, Gaye (2002)

Assistant Professor of Nursing M.S.N., Georgia Southern University
B.S.N., Albany State College
A.D.N., South Georgia College
*Cooksey, Thomas L. (1987)
Professor of English and Philosophy Ph.D., University of Oregon M.A., California Polytechnic State University B.A., University of California

* Cosgrove, Maryellen S. (1989)

Head of Early Childhood Education
Department
Interim Head of Middle, Secondary, and Adult
Education
Professor of Early Childhood Education
Ph.D., University of Connecticut
M.A., University of Connecticut
B.S., University of Connecticut

Craven, Kathryn (2003)
Assistant Professor of Biology
Ph.D., Texas A \& M University
B.A., University of Rhode Island

* Crosby, Joseph (1995)

Associate Professor of Health Sciences
Ph.D., University of Georgia
B.S., University of Georgia

Cross, Deanna S. (1989)
Assistant Dean of Adult Academic Services
Professor of Nursing
Ph.D., Boston College
M.S.N., Boston College
B.S.N., University of Akron
da Cruz, Jose de Arimateia (2003)
Assistant Professor of Political Science Ph.D., Miami University M.A., Miami University B.A., Wright State University

* Dandy, Evelyn B. (1974)

Professor of Early Childhood Education Ph.D., University of South Carolina M.Ed., Temple University B.S., Millersville State College

## Daugherty, William (1997)

Associate Professor of Political Science
Ph.D., Claremont Graduate School
B.A., University of California-Irvine
*Davies, George J. (2004)
Professor of Physical Therapy
D.P.T., MGH Institute of Health Professions
M.Ed., The College of New Jersey (Trenton State College)
CERT, Columbia University
B.A., The College of New Jersey (Trenton State College)

DeAgostino, Sergio (2000)
Professor of Computer Science
Ph.D., University of Rome
M.A., University of Rome
M.A., Brandeis University
B.A., Brandeis University

Deaver, William (1994)
Associate Professor of Spanish Ph.D., Florida State University M.A., University of Virginia
B.A., University of Virginia

DiBella, Robert L. (2002)
Assistant Professor of Education M.A., Ohio State University
B.S., Ohio State university

* Donahue, Michael E. (1993)

Director, Regional Educational Services
Professor of Criminal Justice Ph.D., Michigan State University M.S., University of South Carolina B.A., University of North CarolinaCharlotte

Douglass, W. Keith (1970)
Professor of Psychology
Ph.D., Syracuse University
M.A., Syracuse University
B.A., Franklin \& Marshall College

Dubus, Julia H. (1990)
Assistant Professor of Library Science M.S., Florida State University A.B., University of Georgia

Dunn, Barbara (1994)
Assistant Professor of Nursing M.S.N., St. Louis University B.S.N., Maryville College
A.A., Maryville College

## Ebel, Carol (2002)

Assistant Professor of History
Ph.D., University of Georgia
M.A., University of Georgia
B.A., Georgia Southern University

* Eckert, Barry (2001)

Dean of Health Professions
Professor of Health Sciences
Ph.D., University of Miami School of Medicine
M.S., State University of New YorkAlbany
B.S., State University of New York-Albany

Edenfield, Suzanne (1983)
Associate Professor of Dental Hygiene Ed.D., Nova Southeastern University M.H.S., Armstrong State College B.S., Armstrong State College

## Ferguson, Carl (2002)

Assistant Professor of Special Education
Ph.D., Vanderbilt University
M.A., Appalachian State University
B.S., Appalachian State University

* Fertig, Barbara (1992)

Associate Professor of History Ph.D., George Washington University B.S., Skidmore College

* Finlay, Mark (1992)

Assistant Dean of Arts and Sciences
Associate Professor of History
Ph.D., Iowa State University
M.A., Iowa State University
B.A., Grinnell College

* Fraser, Jacqueline (1998)

Associate Professor of Health Sciences
Ph.D., University of South CarolinaColumbia
M.A., Ohio State University
B.S., McMaster University

Frazier, Douglas R. (1991)
Assistant University Librarian
Assistant Professor of Library Science
M.L.S., University of Washington B.A., Western Washington State College

## Fuller, Ann (1997)

Assistant Professor of Library Science
M.L.I.S., University of South

Carolina-Columbia
B.A., Armstrong State College

Gibson, Sharyn (1983)
Head of Radiologic Sciences
Associate Professor of Radiologic Sciences
Ed.D., Nova Southeastern University
M.H.S., Armstrong State College
B.S., St. Joseph’s College

Gilbert, Catherine (2003)
Assistant Professor of Nursing
M.S.N., University of Toronto
B.S.N., Ryerson Polytechnic University
R.N., Prince Edward Island School of Nursing

Gilliard-Smith, Sharon (2002)
Instructor of Radiologic Sciences
M.H.S., Armstrong Atlantic State University
B.H.S., Armstrong State College

Green, Rachel (1992)
Associate Professor of Art
M.F.A., University of Georgia
B.F.A., Middle Tennessee State University

* Greenlaw, Raymond (1998)

Dean of School of Computing
Professor of Computer Science Ph.D., University of Washington
M.S., University of Washington
B.A., Pomona College

Guillou, Laurent J., Jr. (1970)
Professor of Biology
Ph.D., Louisiana State University
M.S., Louisiana State University
B.S., Louisiana State University

Hadavas, Paul (2002)
Assistant Professor of Mathematics
Ph.D., Clemson University
M.S., Clemson University
B.S., Carnagie Mellon University

[^3]Hampton, Edwin Kevin (1996)
Associate Professor of Music
D.M.A., University of Maryland
M.M., Drake University
B.M., William Jewell College

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

* Harwood, Pamela L. (1985)

Head of Special Education Department
Associate Professor of Education
Ed.D., Auburn University
M.A., Appalachian State University
B.S., Appalachian State University

## He, Lei (2003)

Assistant Professor of Information Technology

Ph.D., University of Cincinnati
M.S., Chengdu Institutute of Computer Applications, Chinese Academy of Sciences,
B.S., Harbin Institute of Electrical Technology, China

* Hendricks, Christopher E. (1993)

Associate Professor of History
Ph.D., College of William and Mary
M.A., College of William and Mary
B.A., Wake Forest University

Hepting, Nancy Herd (2002)
Assistant Professor of Speech-Language
Pathology
Ph.D., University of Pittsburgh
M.S., California University of Pennsylvania
B.S., Clarion State College

Hessinger, Sabrina (1997)
Special Assistant to the Dean/PRISM Initiative
Associate Professor of Mathematics
Ph.D., North Carolina State University
B.S., Gannon University

Hizer, Todd J. (1989)
Interim Department Head of Chemistry
Associate Professor of Chemistry
Ph.D., University of South Carolina
B.S., Old Dominion University

Hobe, John J. (1991)
Associate Professor of Early Childhood Education

Ed.D., University of San Francisco
M.A., California State University
B.S.Ed., Bowling Green State University

Hoffman, Lorrie L. (2004)
Department Head of Mathematics
Professor of Mathematics Ph.D., University of Iowa
M.S., University of Illinois at Champaign
B.S., Western Illinois University

* Hollinger, Karen (1990)

Professor of English
Ph.D., University of Illinois
M.A., Loyola University
B.A., Loyola University

Hollis, Selwyn L. (1991)
Professor of Mathematics
Ph.D., North Carolina State University
B.S., University of Georgia

* Hopkins, June (1998)

Assistant Professor of History
Ph.D., Georgetown University
M.A., California State UniversityNorthridge
M.P.A., Pace University
B.A., University of California Berkeley

## Hopkinson, Caroline (1989)

Assistant Professor of Library Science
M.L.I.S., University of Wisconsin -

Milwaukee
B.A., University of Wisconsin - Madison

## Horah, Richard (2000)

Instructor of Library Science
M.S., Georgia Southern University
B.A., State University of West Georgia

* Howard, Thomas F. (1993)

Associate Professor of Geography
Ph.D., University of California
M.A., University of California
M.A., University of Chicago
B.A., University of Chicago

Howells, Helen Elizabeth (2001)
Assistant Professor of English
Ph.D., Univeristy of North CarolinaGreensboro
M.A., University of Alabama
B.A., University of Notre Dame

Hsu, Pang-Chieh (2003)
Assistant Professor of Drawing and Painting M.F.A., University of Massachusetts, Amherst
B.F.A., School of Visual Arts, New York

## Jackson, Melissa (2000)

Assistant Professor of Library Science M.L.S., University of South Florida M.A., Florida State University B.A., Florida State University

## * Jamison, Carol P. (1993)

Associate 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 CarolinaGreensboro
B.A., Appalachian State University

Jensen, John G. (1985)
Professor of Art
M.F.A., University of Arizona
B.S., University of Wisconsin

Jensen, Linda G. (1985)
Professor of Art
M.F.A., Memphis State University
M.A.T., Memphis State University
B.A.E., University of Mississippi

## Jodis, Stephen (1990)

Assistant Dean of School of Computing
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

Johnson Wayne (2004)
Assistant Professor of Engineering Studies Ph.D., Georgia Institute of Technology M.S., Georgia Institute of Technology B.S., Louisiana State University,

Shreveport

* Jones, Thomas Z. (2000)

President
Professor of Geology
Ph.D., Miami University
M.A., West Virginia University
B.A., Fairmont State College

[^4]Katz, Frank (2002)
Assistant Professor of Information
Technology
M.S., Georgia State University
B.A., University of Florida

Kearnes, John (1988)
Associate Professor of Political Science
Ph.D., University of Utah
M.A., Andrews University
B.A., Union College

* 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 TennesseeChattanooga

Kolodny, Robert A. (1991)
Associate Professor of Chemistry
Ph.D., University of Georgia
B.S., Queens College of New York

Koth, Andreas W. (1991)
Assistant Professor of Physical Education M.Ed., Georgia Southern College B.S., Georgia Southern College

## Kraft, John (1999)

Assistant Professor of Psychology Ph.D., University of New Hampshire M.A., University of New Hampshire B.S., Northern Arizona University

* Lake, David (1994)

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
B.A., Armstrong State College

* Lander, Jennifer (1994)

Associate Professor of Physical Therapy
Ed.D., Nova University
M.S., Long Island University
B.S., Indiana University

Lariscy, Michael L. (1976)
Head of Health and Physical Education
Department
Associate Professor of Physical Education
Ed.D., University of Georgia
M.Ed., Georgia Southern College
B.S., Armstrong State College

## Larson, Brett A. (1991)

Professor of Biology
Ph.D., University of Oregon
B.S., University of Georgia

## Lau, Kam Fui (2001)

Assistant Professor of Information
Technology
Ph.D., University of Rhode Island M.S., University of Rhode Island M.B.A., University of Rhode Island
B.A., Sussex College of Technology

## Leaver, David (2002)

Assistant Professor of History
Ph.D., University of Wisconsin - Madison
M.S., University of Wisconsin - Madison
B.A., Oxford University

Lee, Byung Moo (1981)
University Librarian
Assistant Professor of Library Science
M.L.S., University of Wisconsin
B.A., University of Wisconsin
B.A., Yon Sei University

## * Lefavi, Robert (1993)

Professor of Health Sciences
Ph.D., Auburn University
M.B.A., Nova University
B.S., University of Florida

## Lewis, Ola (2001)

Assistant Professor of Education
Director of Partnership Program
Ed.S., Georgia Southern University
M.Ed., Armstrong State College/Savannah State College
B.S., Savannah State College

## * Liang, Daniel (2000)

Professor of Computer Science
Ph.D., University of Oklahoma
M.S., Fudan University
B.S., Fudan University

Lipsa, Dan (2003)
Assistant Professor of Information Technology
M.S., University of New Hampshire
B.S., University Politechnic of Bucharest

## Logan, Brenda (2002)

Assistant Professor of Middle, Secondary, and Adult Education
Ed.D., Vanderbilt University
M.A., University of Northern Colorado
B.S., Savannah State College

## Loyd, Robert (1997)

Associate 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)

Associate Professor of Chemistry
Ph.D., Wayne State University
B.A., Kalamazoo College

Ma, Yuxin (2003)
Assistant Professor of History
Ph.D., University of Minnesota, Twin Cities
M.A., Peking University, China
B.A., Xi'an Medical University, China

MacGowan, Catherine E. (1993)
Assistant Professor of Chemistry
Ph.D., University of Akron
M.S., University of Colorado
B.S., University of Michigan-Dearborn

## Marshall, Wendy (2002)

Assistant Professor of Early Childhood
Education
M.Ed., Pennsylvania State University
B.A., Grove City College

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

## Mathieu-Coulton, Kimberly (2003)

Assistant Professor of Dental Hygiene M.S., University of Washington
B.S., University of New Mexico
A.S., University of New Mexico

McAdams, Rod (2001)
Assistant Professor of Health Sciences
Ph.D., University of Kansas
M.A., University of Akron
B.A., Emporia State University

McGrath, Richard (1997)
Associate Professor of Economics
Ph.D., University of Virginia
M.A., University of Virginia
B.A., Framingham State College

McHaney, Jane H. (2004)
Dean of College of Education
Professor of Early Childhood Education Ed.D., Mississippi State University M.Ed., Mississippi State University B.S., David Lipscomb University

## McMillan, Tim (1990)

Associate Professor of Mathematics Ph.D., University of Florida
M.S., University of Florida B.S., University of South Carolina

* Megathlin, William L. (1971)

Assistant to the President for Strategic
Initiatives
Professor of Criminal Justice
Ed.D., University of Georgia
M.Ed., University of Georgia
B.A., Presbyterian College

Mellen, Peter J. (1993)
Associate 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

Micikevicius, Paulius (2003)
Assistant Professor of Computer Science Ph.D., University of Central Florida
B.S., Midwestern State University

Miller, Jill (1998)
Director, Honors Program
Assistant Professor of Art History
Ph.D., University of Minnesota-
Minneapolis
M.A., University of Minnesota -

Minneapolis
B.A., Moorhead State University

Miller, Roger (1996)
Assistant Professor of Theatre Ed.D., Nova Southeastern University M.A., Adelphi University
B.F.A., University of Arizona

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

Mowry, Mary Elizabeth (1995)
Assistant Professor of Library Science M.S., University of North Carolina M.S., Syracuse University B.A., Michigan State University

Mullenax, Donna (1999)
Instructor of Physics and Astronomy
M.S., Clemson University
B.A., West Virginia University
B.S., West Virginia University

* Murphy, Dennis D. (1981)

Assistant Vice President of Academic
Affairs
Professor of Criminal Justice
J.D., University of Florida

Ph.D., University of Florida
M.Ed., University of Florida
B.A., University of Florida

Murphy, Thomas (2002)
Coordinator of Engineering Studies
Associate Professor of Engineering
Ph.D., University of Florida
M.E., University of Florida
B.S., University of Notre Dame

Nivens, Anita (1998)
Assistant Professor of Nursing
Ph.D., University of South Carolina
M.N.F.N.P., University of South Carolina
B.S.N., Medical University of South Carolina

Nivens, Delana (2000)
Assistant Professor of Chemistry Ph.D., University of South Carolina
B.S., University of Pittsburgh

Nordenhaug, Erik (1995)
Interim Head of Languages, Literature, and
Philosophy
Associate Professor of Philosophy
Ph.D., Emory University
M.A., Emory University
B.A., Mercer University

```
* Nordquist, Richard F. (1980)
    Professor of English
        Ph.D., University of Georgia
        M.A., University of Leicester
        B.A., State University of New York
```

Orton, Christine (2002)
Assistant Professor of Nursing Ph.D., Hampton University M.S.N., Hampton University B.S.N., University of Maryland

Ouzts, Susan (1999)
Assistant Professor of Mathematics M.Ed., Armstrong State College B.S., Armstrong State College

Parham, Lucretia (1998)
Assistant Professor of Information Technology

Ph.D., Auburn University
M.B.A., Auburn University
B.A., Auburn University

Polsonetti, Patricia E. (2003)
Head of Circulation
Assistant Professor of Library Science
M.L.S., Simmons College
E.S.L., Hawaii Pacific University
M.A.T., Salem State College
B.A., Salem State College

Powell, Catharine L. (1991)
Associate Professor of Nursing
Ed.D., Indiana University
M.S.P.H., University of North Carolina
B.S.N., DePauw University

Powell, Rose (2000)
Assistant Professor of Nursing
Ph.D., George Mason University
M.N., Wichita State University
B.S.N., Fort Hays State University

* Price, Michael E. (1993)

Interim Executive Director, School of
Graduate Studies
Head of History Department
Associate Professor of History
Ed.D., University of Georgia
M.A., University of Georgia
B.A., Kansas State University

Primatic, Stephen (1997)
Assistant Professor of Music
M.M., University of Miami
B.M., Wilkes University

## Reed, Joylyn (2001)

Head of Information Technology Department
Professor of Information Technology
Ph.D., Auburn University
M.S., University of Maryland
M.S., Auburn University
B.S., Auburn University

Reese, Deborah (1999)
Assistant Professor of English
Ph.D., The University of Texas-Arlington
M.A., The University of Texas-Arlington
B.A., The University of Texas-Arlington

Reese, Randall (1994)
Assistant Professor of Music D.M.A., University of South Carolina 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
B.A., Florida State University

Remler, Nancy (1992)
Associate Professor of English
Ph.D., University of Georgia
M.A., Georgia Southern University
B.S.Ed., University of Georgia

Richardson, Edwin G. (1989)
Assistant Professor of English
M.A., University of Maine
B.A., University of South Florida

Rinalducci, Edward (1999)
Assistant Professor of Sociology
Ph.D., Georgia State University
M.S., Mississippi State University
B.S., Florida State University

Roberts, Jonathan (2001)
Assistant Professor of Psychology
Ph.D., Virginia Polytechnic Institute and State University
M.S., Virginia Polytechnic Institute and State University
B.A., University of North CarolinaWilmington

Roberts, Lynn T. (1989)
Assistant Professor of Physical Education M.Ed., Armstrong State College
B.S., Armstrong State College

Robinson, Howard O. (1998)
Assistant Professor of History Ph.D., University of Akron M.A., Alabama State University B.A., Alabama State University

Saadatmand, Yassaman (1989)
Head of Economics Department
Associate Professor of Economics Ph.D., University of New Hampshire M.B.A., James Madison University B.S., National Iranian Oil Company College of Finance

## Sanders, Manuel (2002)

Assistant Professor of Mathematics
Ph.D., University of Tennessee
M.A., University of North Carolina Greensboro
B.A., University of North Carolina Greensboro

Schuberth, Christopher A. (1996)
Director of Troops to Teachers Program
Assistant Professor of Science Education
M.S., New York University
B.S., City College of New York

Schultz, Lucinda D. (1986)
Professor of Music
D.M.A., University of Colorado
M.M., Colorado State University
B.S., Dickinson State College

Schwartz, Joan (2002)
Assistant Professor of Early Childhood Education
Ed.D., University of Georgia
Ed.S., Georgia Southern University
M.Ed., Armstrong State College
B.S., Armstrong State College

Scott, Vann B., Jr. (1997)
Associate Professor of Psychology Ph.D., North Carolina State University M.A., Georgia Southern University A.B., University of North CarolinaChapel Hill

## Sharma, Vinita (2003)

Instructor of Information Technology
M.S., Samrat Ashok Technological Institute
B.S., Government Gitanjali Girls College

Shipley, Charles (1972)
Head of Computer Science Department
Professor of Computer Science
Ph.D., University of Nebraska
M.S., Georgia Institute of Technology
M.A., University of Nebraska
B.A., University of North Dakota

## Sisson, Michelle W. (1990)

Associate Professor of Middle, Secondary, and Adult Education

Ed.D., University of Georgia
M.Ed., Armstrong State College
B.S.Ed., University of Georgia

* Skidmore-Hess, Daniel (1993)

Associate Professor of Political Science
Ph.D., University of Wisconsin
M.A., University of Wisconsin
B.A., Oberlin College

Smith, Carolyn G. (1980)
Assistant Professor of Mathematics
M.Ed., Armstrong State College
B.S., Armstrong State College

Smith, James (1990)
Associate Professor of English
Ph.D., Vanderbilt University
M.A., Vanderbilt University
B.A., Berry College

* St. Pierre, Richard (1999)

Professor of Health Sciences Ed.D., University of North Carolina
M.S., University of California
B.S., Ohio State University

* Stern, Camille P. (1991)

Head of Nursing Department
Professor of Nursing
Ph.D., University of Texas
M.S.N., University of Alabama
B.S.N., Medical College of Georgia

* Stone, Janet D. (1975)

Associate Professor of History
Ph.D., Emory University
M.A., Purdue University
A.B., Randolph-Macon Woman's College

Stover, Lynn (2001)
Assistant Professor of Nursing
D.S.N., University of AlabamaBirmingham
M.S.N., University of AlabamaBirmingham
B.S.N., University of Alabama-Birmingham

* Strauser, Edward B. (1991)

Associate Professor of Middle, Secondary, and Adult Education

Ed.D., State University of New York
M.S., Canisius College
B.S., State University of New York

* Streater, James, Jr. (1988)

Head of Health Sciences Department
Professor of Health Sciences
Ed.D., University of South Carolina
M.Ed., University of South Carolina
B.A., University of South Carolina

Strickland, Gloria (1997)
Assistant Professor of Radiologic Sciences Ed.S., Georgia Southern University M.H.S., Armstrong Atlantic State University
B.S., Thomas Edison State College

## Su, Hongjun (2002)

Assistant Professor of Computer Science Ph.D., University of Dayton M.S., Sichuan University
B.S., Sichuan University

Sullivan, Mary Ann (2001)
Assistant Professor of Speech-Language

## Pathology

Ph.D., University of South CarolinaColumbia
M.A., Wayne State University
B.A., University of North Dakota

* Taggart, Helen M. (1992)

Associate Professor of Nursing D.S.N., University of Alabama M.S.N., Georgia Southern University B.S.N., Armstrong State College

* Tanenbaum, Barbara G. (1972)

Interim Special Assistant to the Vice President for Academic Affairs
Head of Dental Hygiene Department
Professor of Dental Hygiene
Ed.D., University of Georgia
M.Ed., Armstrong State College
B.S., Medical College of Georgia

Taylor, Stephen A. (1992)
Associate Professor of Psychology
Ph.D., University of Florida
B.A., Oswego State College

Thamburaj, Priya (2003)
Assistant Professor of Engineering Studies
Ph.D., University of Delaware
B.Tech., Indian Institute of Technology, India

## Thomas, Patrick (2002)

Assistant Professor of Middle, Secondary, and Adult Education

Ph.D., Kansas State University
M.A., Adams State College
B.A., Southern California College

* Thompson, Anne W. (1994)

Associate Professor of Physical Therapy
Ed.D., Georgia Southern University
M.S., Duke University
B.S., College of William and Mary

* Thompson III, Edward (2002)

Vice President and Dean of Faculty
Professor of Political Science
Ph.D., Howard University
B.A., University of Arizona

Thorne, Francis M. (1965)
Professor of Biology
Ph.D., University of Georgia
B.S., Stetson University

* Tilson, Elwin R. (1982)

Professor of Radiologic Sciences Ed.D., University of Georgia M.S., San Francisco State University
B.S., Arizona State University

Todesca, James (1998)
Assistant Professor of History
Ph.D., Fordham University
M.A., Catholic University of America
B.A., Georgetown University

Toma, Michael (1997)
Associate Professor of Economics Ph.D., George Mason University M.A., Miami University-Oxford B.S., Miami University-Oxford

Torres, Ana (2001)
Assistant Professor of Spanish
Ph.D., Florida State University
M.A., Florida State University
B.A., Garcileso de la Vega University

Townsend, Dabney (1997)
Professor of Philosophy
Ph.D., Emory University
B.D., Drew University
B.S., Duke University

Tuck, Linda (2000)
Assistant Professor of Nursing
M.S.N., Armstrong Atlantic State University
M.Ed., Georgia Southwestern College
B.A., College of St. Scholastica
*Tyler-Hashemi, Ray (2003)
Professor of Computer Science
Ph.D., University of Missouri - Columbia M.E., University of Missouri - Columbia B.A., University of Tehran

Wallace, Richard (1995)
Professor of Chemistry
Ph.D., Clemson University
B.S., Armstrong State College

Walworth, Margaret E. (1991)
Associate Professor of Early Childhood Education

Ph.D., University of Georgia
M.Ed., Clemson University
B.S., Clemson University

Weaver, Joseph G. (2003)
Assistant Professor of Philosophy Ph.D., University of Georgia A.B., University of Georgia

Welch-Mooney, Irene (2002)
Assistant Professor of Early Childhood Education

Ph.D., Georgia State University
M.S., Wheelock College
B.A., University of South Carolina

Weinbach, Andrew P. (2004)
Assistant Professor of Mathematics M.A., Clemson University B.A., University of South Carolina, Columbia

* Wheeler, Ed R. (1987)

Dean of Arts and Sciences
Professor of Mathematics Ph.D., University of Virginia B.A., Samford University
*White, Nancy A. (1994)
Professor of History Ph.D., American University M.A., American University B.A., Mount Holyoke College

White, Susan S. (1972)
Assistant Professor of Special Education M.Ed., University of South Carolina B.S., Winthrop College

Williams, Learotha (2004)
Assistant Professor of History Ph.D., Florida State University M.A., Florida State University B.S., Florida State University

Wilson, Zaphon R. (2004)
Department Head of Criminal Justice, Social and
Political Science
Professor of Political Science
Ph.D., The Atlanta University
M.A., Appalachian State University
B.A., Appalachian State University

* Wimer, Gregory (1994)

Associate Professor of Physical Education
Ph.D., Ohio State University
M.S., University of South Carolina
B.S., University of South Carolina

* Winterhalter, Teresa (1994)

Associate Professor of English
Ph.D., University of Rochester
M.A., University of Rochester
M.A., State University of New YorkCortland
B.A., State University of New York-

Brockport
Wong, Jane (2002)
Head of Psychology Department
Professor of Psychology
Ph.D., Northern Illinois University
M.A., Northern Illinois University
B.A., Loyola University

* Worley, Milton (1996)

Associate Professor of Middle, Secondary, and
Adult Education
Ed.D., Oklahoma State University
M.Ed., Phillips University
B.S., Phillips University

* Wright, Linda (1995)

Director of Education Technology
Professor of Health Science
Ph.D., Texas Tech University
B.S., Eastern New Mexico University

Wynn, Gail G. (1992)
Assistant Professor of Biology
Ph.D., Louisiana State University
M.S., Louisiana State University
B.S., Oglethorpe University

Yentsch, Anne (1992)
Associate Professor of Historical Archaeology
Ph.D., Brown University
M.A., Brown University
M.A., University of Miami (Florida)

## Zettler, Jennifer (2002)

Assistant Professor of Biology
Ph.D., Clemson University
M.S., Clemson University
B.S., University of Florida

## Zhang, Hong (2002)

Associate Professor of Computer Science
Ph.D., University of Pittsburgh
M.A., University of Pittsburgh
M.S.E.E., University of Pittsburgh
B.S., Fudan University

## Zhu, Lei (2003)

Assistant Professor of Information
Technology
Ph.D., State University of New YorkBuffalo
M.S., Peking University, China
B.S., Peking University, China
*Zipperer, Freya M. J. (1996)
Associate Professor of Middle, Secondary, and
Adult Education
Ed.D., University of Georgia
M.Ed., University of Georgia
B.S., Armstrong State College

Zipperer, William C, (1991)
Associate Professor of Chemistry
Ph.D., University of Georgia
B.S., University of Georgia

## 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, Moonyean (1967-1995)
Associate Professor of Biology Emerita
Brown, George (1972-2003)
Assistant Professor of Criminal Justice Emeritus
Burnett, Robert A. (1978-1999)
Professor of History and President Emeritus
Chenault, George (1992-2002)
Associate Professor of Education Emeritus
Davenport, Leslie B., Jr. (1958-1983)
Professor of Biology Emeritus
Davis, Lamar W. (1948-1976)
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
Hansen, John (1967-2002)
Professor of Mathematics Emeritus
Harmond, Thelma (1963-1981)
Professor of Education Emerita
Harris, Henry (1966-2002)
Professor of Chemistry Emeritus

Harris, Karl (1971-1998)
Assistant Professor of English Emeritus

Hudson, Anne (1971-1997)
Professor of Mathematics Emerita
Hudson, Sigmund (1985-1997)
Professor of Computer Science Emeritus
Jenkins, Marvin (1968-1997)
Assistant Professor of English Emeritus
Killorin, Joseph I. (1947-1988)
Professor of Philosophy \& Literature Emeritus
Lane, Joseph (1970-2001)
Professor of Psychology 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
Martin, Grace (1980-2002)
Professor of Psychology Emerita
McCarthy, John C. (1962-1990)
Professor of Political Science Emeritus
McClanahan, Billie F. (1981-1989)
Assistant Professor of English Emerita
Munson, Richard (1972-2003)
Professor of Mathematics Emeritus

Newberry, S. Lloyd (1968-2000)
Professor of Science Education and Dean of Education Emeritus

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

Pruden, George (1982-2002)
Professor of History Emeritus

Repella, James F. (1976-2001)
Professor of Nursing and Dean of Health
Professions Emeritus

Rhee, Steve (1974-2003)
Professor of Political Science Emeritus
Robbins, Paul (1966-1986)
Professor of Chemistry Emeritus
Robinson, Aurelia (1972-1986)
Associate Professor of Education Emerita
Sartor, Herman (1964-1981)
Professor of Education Emeritus
Schollaert, Warren (1989-2001)
Associate Professor of Education Emeritus
Simon, Emma (1974-2002)
Professor of Health Science and Dean of Graduate Studies Emerita

Sims, Roy Jesse (1955-1990)
Professor of Physical Education Emeritus
Stephens, Jacquelyn (1979-1990)
Professor of Education Emerita
Stratton, Cedric (1965-1993)
Professor of Chemistry Emeritus

Strozier, Robert (1955-1959; 1965-1995)
Professor of English Emeritus
Suchower, John (1969-1992)
Assistant Professor of Drama Emeritus
Tapp, Lawrence (1959-1994)
Professor of Physical Education Emeritus
Welsh, John (1967-2000)
Assistant Professor of English Emeritus
White, Virginia (1967-1991)
Assistant Professor of English Emerita
Whiten, Morris (1970-2001)
Professor of Physics Emeritus
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 

Dr. Thomas Z. Jones President
Dr. Edward Thompson III Vice President and Dean of Faculty
Mr. James Brignati Vice President for Business and Finance
Dr. Joseph A. Buck Vice President for Student Affairs
Dr. C. Leary Bell Vice President for External Affairs
Dr. William L. Megathlin Assistant to the President
Dr. Dennis Murphy Assistant Vice President for Academic Affairs
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Dr. Jane H. McHaney Dean, College of Education
Dr. Barry Eckert ..... Dean, College of Health Professions
Dr. Raymond Greenlaw ..... Dean, School of Computing
Dr. Michael E. Price Interim Executive Director, School of Graduate Studies
Mr. Ben Lee
University Librarian
Dr. Deanna Cross Assistant Dean, Adult Academic Services and
Special Assistant to the President for Minority Affairs
Dr. Mark Finlay

$\qquad$
Assistant Dean, College of Arts and Sciences
Dr. Barbara Tanenbaum Interim Special Assistant to the Vice President for Academic Affairs
Dr. Pamela Harwood \& Dr. Michael Lariscy Interim Co-Assistant Deans, College of Education
Dr. Marilyn Buck Assistant Dean, College of Health Professions
Dr. Stephen JodisMr. Kim West ................................................................ Assistant Dean, Enrollment Services, and Registrar
Mr. Keith Williams
Dr. James Anderson Special Assistant to the Vice President for International Education
Ms. Patricia Reese Executive Director, Marketing
Mr. William Kelso Assistant Vice President, Student Affairs
Mr. Greg Anderson Director, Academic Orientation and Advisement
Ms. Patricia Parker ..... Director, Alumni Affairs
Dr. Eddie Aenchbacher Director, Athletics
Ms. JoAnn Windeler Director, Business and Auxiliary Services
Ms. Barbara Myers ..... Dr. Beth Howells \& Dr. Nancy Remler ....................................... Directors, Coastal Georgia Writing Project
vacant ...................................................................................... Director, Computer and Information Services
Mr. Robert DeBella Director, Continuing Education
Mr. John Mitchell Director, Counseling and Volunteer Services
Mr. Clint Nessmith Director, Development and Alumni Relations
Ms. Amelia Castilian Director, Disability Services
Ms. Letty Shearer ..... Director, Economic Development
Ms. Diana GaschoDirector, Elderhostel
Dr. Richard Nordquist Director, Faculty Development and General Studies
Ms. Lee Ann Kirkland ..... Coordinator, Financial Aid
Mr. Daniel Harrell Director, Financial Services
Ms. Nikki Palamiotis Director, School of Graduate Studies
Dr. Jill Miller ..... Director, Honors Program
Ms. Rebecca Carroll Director, Human Resources
Mr. J. Patrick Mizak ...................................................................................... Director, Institutional Research
Mr. Greg Sewell Director, Law Enforcement Training Center
Ms. Gisela Grant Director, Liberty Center
Dr. Michael Snowden Director, Minority Affairs
Mr. David Faircloth ..... Director, Plant Operations
Mr. Barry Ostrow ..... Director, Public Relations
Mr. Mack Seckinger Director, Public Safety
Dr. Michael Donahue Director, Regional Education Services
Mr. Al HarrisDirector, Student Activities
Ms. Lynn Benson Director, Testing Services
Dr. Deborah Reese Director, Writing Center

## University System of Georgia Organization

## Board of Regents

W. Mansfield Jennings, Jr. ..... First
Julie Ewing Hunt ..... Second
Martin W. Nesmith ..... Third
Wanda Yancey Rodwell ..... Fourth
Elridge W. McMillan ..... Fifth
Michael J. Coles ..... Sixth
Glenn S. White ..... Seventh
(Mr.) Connie Cater ..... Eighth
Patrick S. Pittard ..... Ninth
James R. Jolly ..... Tenth
Joe Frank Harris (chair) ..... Eleventh
Timothy J. Shelnut ..... Twelfth
Allan Vigil ..... Thirteenth
Hugh A. Carter, Jr ..... State at Large
William H. Cleveland ..... State at Large
Doreen Stiles Poitevint ..... State at Large
Donald M. Leebern, Jr. State at Large
Joel Wooten, Jr. (vice-chair) ..... State at Large
Board of Regents Staff
Thomas C. Meredith Chancellor
William Wallace Associate Vice Chancellor - Human Resources
Frank A. Butler Senior Vice Chancellor for Academic and Fiscal Affairs
Tonya Lam Interim Associate Vice Chancellor - Student Services
John T. Wolfe, Jr. Associate Vice Chancellor - Faculty Affairs
William Bowes Vice Chancellor - Fiscal Affairs
Thomas E. Daniel Senior Vice Chancellor - External Activities and Facilities
Randall Thursby Vice Chancellor - Information/Instructional Technology/CIO
Associate Vice Chancellor - Internal Audit
Elizabeth E. Neely Associate Vice Chancellor - Legal Affairs
Jan Kettlewell Associate Vice Chancellor - P-16 Initiatives
Cathie M. Hudson
Corlis Cummings Senior Vice Chancellor - Support Services
Linda M. Daniels Vice Chancellor - Facilities

# Institutions of the University System of Georgia 

## Comprehensive and Special Purpose Universities

Athens 30602
University of Georgia-h; B,J,M,S,D
Atlanta 30332
Georgia Institute of Technology-h; B,M,D
Atlanta 30303
Georgia State University-A,B,J,M,S,D
Augusta 30912
Medical College of Georgia-h; A,B,M,D

## Regional Universities

Statesboro 30460
Georgia Southern University-h; A,B,M,S
Valdosta 31698
Valdosta State University-h; A,B,M,S,cD

## State Universities and Senior Colleges

Albany 31705
Albany State University-h; B,M
Americus 31709
Georgia Southwestern State University-h; A,B,M,S
Augusta 30910
Augusta State University-A,B,M,S
Carrollton 30118
State University of West Georgia-h; A,B,M,S
Columbus 31993
Columbus State University-A,B,M,S
Dahlonega 30597
North Georgia College and State University-h; A,B,M
Fort Valley 31030
Fort Valley State University-h; A,B,M

Marietta 30061
Kennesaw State University-A,B
Marietta 30060
Southern Polytechnic State University-h; A,B,M
Milledgeville 31061
Georgia College and State University-h; A,B,M,S
Morrow 30260
Clayton College and State University-A,B
Savannah 31419
Armstrong Atlantic State University-h; A,B,M
Savannah 31404
Savannah State University-h; A,B,M

## State Colleges

Dalton 30720
Dalton State College-A,B

Albany 31707
Darton College-A
Atlanta 30310
Atlanta Metropolitan College-A
Bainbridge 31717
Bainbridge College-A
Barnesville 30204
Gordon College-h; A
Brunswick 31523
Coastal Georgia Community College-A
Cochran 31014
Middle Georgia College-h; A
Decatur 30034
Dekalb College-A

Macon 31297
Macon State College-A,B

## Two-Year Colleges

Douglas 31533
South Georgia College-h; A
Gainesville 30503
Gainesville College-A
Rome 30163
Floyd College-A
Swainsboro 30401
East Georgia College-A
Tifton 31793
Abraham Baldwin Agri. College-h; A
Waycross 31501
Waycross College-A

## 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 AASU students score at a certain level on a CLEP test accepted by the university, 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.
corequisite: a course required to be taken at the same time as another course. Corequisites are listed in the catalog under course descriptions.
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 though 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 fulltime 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 indepth 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 1 - 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.

## Appendix I

## Honor Code and Code of Conduct

Armstrong Atlantic State University exists to provide an environment in which intellectual achievement, scholarship, and character development can flourish. The AASU community students, faculty, administration, and staff - willingly shares the responsibility for sustaining a creative and productive atmosphere through adherence to the highest standards of personal and professional conduct. All who are privileged to be a part of AASU campus life must remain cognizant that they are representatives of Armstrong Atlantic State University, whether they are on campus or elsewhere, and are therefore expected to avoid behavior which brings discredit or dishonor upon themselves or to the University as an institution. Recognizing that trust is the cornerstone of all human relations, students will work to build and sustain the trust of their peers, the faculty, and the administration by obeying both the letter and the spirit of the Honor Code and the Code of Conduct.

## Student Responsibilities

At each registration, students must agree to abide by the rules of the Honor Code and the Code of Conduct. The Honor Code and Code of Conduct shall be printed in the AASU Catalog, in Students Illustrated, and on the University website.

It will be the responsibility of the Student Court or its designated representative to conduct an orientation program at the beginning of each semester for all new students to explain the Codes and allow discussion of the requirements for each Code. Any student desiring assistance with any matter related to these Codes is invited to seek assistance in the Division of Student Affairs.

Students are expected to:

1. Exercise honesty in all matters, both academic and personal in nature.
2. Be fair and courteous with others, treat them fairly and with respect, showing sensitivity to cultural, ethnic, and religious diversity, and personal dignity.
3. Accept personal responsibility for appropriate behavior as defined by the Codes.
4. Know the offenses under each Code and the penalties for violating them.
5. Understand that they are responsible for knowing and following any additional written or verbal requirements given by the professor which relate to honor or conduct and which are inherent to the classroom or University functions.
6. Know what plagiarism is, as defined under the Honor Code; recognize that it undermines individual and academic integrity; and ensure that it is avoided in both spirit and deed.
7. Understand that the Codes apply at all University activities whether on the main campus or at or other locations.
8. Remember that they are representatives of Armstrong Atlantic State University and that they must always conduct themselves in a manner which brings credit upon themselves and the University.

## Faculty Commitments

In accordance with the University Mission Statement, the faculty is responsible for providing an atmosphere that fosters excellence in learning and student achievement. Faculty responsibilities to the University are detailed in the AASU Faculty Handbook in Article VII of the Regulations. Other relevant provisions of the Faculty Handbook are as follows:

1. The primary responsibility of a faculty member is the advancement of knowledge through teaching and scholarship. The faculty member is therefore committed to the development and improvement of scholarly competence both in self and in students. (Regulations, Art. III: Principles of Conduct; Sect. A, Para 1.)
2. As a teacher, the faculty member encourages the free pursuit of learning in each student. The teacher exemplifies to students the highest standards of scholarship and integrity and encourages student adherence to such standards. Recognizing the individual worth of each student, the
teacher respects the confidential nature of the student-teacher relationship and makes every effort to ensure that any evaluation reflects the true merit of the student. Although the teacher may have subsidiary interests, these interests should never hamper or compromise his or her responsibility to students. (Regulations, Art. III: Principles of Conduct; Sect. A, Para 2.)
3. Academic dishonesty of any kind (giving or receiving unauthorized help on any assignment, test, or paper) is considered a violation of the Honor Code. At the beginning of each term it shall be the responsibility of each teacher to make clear what shall be considered unauthorized help in each course. (Regulations, Art. VI: Faculty-Student Relations; Sect.A).
Additionally, the Faculty is committed to:
4. Reinforcing a sense of honesty and integrity in students; setting an example by treating all students with fairness and courtesy; and respecting diversity in all its forms.
5. Providing clear instructions in written format (e.g., in the syllabus) for each course as to what constitutes violations of the Codes. Additional or supplemental verbal instructions that clarify assignments may be provided at the prerogative of the professor.
6. Designing examinations and assignments that fairly and reasonably measure the student's level of knowledge; and using examinations as teaching tools as well as evaluation mechanisms.
7. Using examination formats that provide clear instructions and supervision as appropriate for examinations and assessments.
8. Communicating to all students they are expected to know, understand, and adhere to the Honor Code and Code of Conduct

## I. General Policies

A. The University is dedicated not only to learning and the advancement of knowledge, but also to the development of ethically sensitive and responsible persons. It seeks to achieve these goals through sound educational programs and policies governing student conduct that encourage independence and maturity.
B. The University may apply sanctions or take other appropriate action when student conduct interferes with the University's (a) primary responsibility of ensuring the opportunity for attainment of educational objectives, or (b) subsidiary responsibility of protecting property, keeping records, providing services and sponsoring non-classroom activities such as lectures, concerts, athletic events and social functions.
C. Student representatives shall have an opportunity to participate in the formation and evaluation of all policies, rules, and sanctions pertaining to student conduct.
D. Honor offenses discussed in this Code are not considered to be all-inclusive; each Department or College may also promulgate course- or discipline-specific Honor Code violations supplementing the University Code. Such offenses shall be adjudicated according to the University Code.
E. These rules and procedures apply to all students enrolled in AASU courses, regardless of the location or training site at which the course or learning experience is conducted.
F. Some Departments may have additional rules or standards beyond this Code that apply to all students within the Department. It is each student's responsibility to learn and abide by their respective Department's separate Code, in addition to the AASU Code.

## II. Honor Offenses

A. Honor offenses may be of two kinds: (a) general violations and (b) specific course- or disciplinerelated problems as identified by individual instructors. General Violations fall under four categories: Plagiarism, Cheating, Fabrication, and Facilitating Academic Dishonesty.*
B. Plagiarism is the intentional offering of the words, ideas, or computer data, programs and/or graphics of others for one's own in any academic exercise. Examples of plagiarism include (but are not limited to):

1. The offering of another's work, whether verbatim or paraphrased, as original material in an academic paper;

[^5]2. The offering of another's original ideas or concepts as one's own, in an academic paper or assessed exercise;
3. The inclusion of another's material in one's own work without appropriate or accurate citation or credit;
4. Offering as one's own materials or data from the Internet or similar computer databases.
C. Cheating is (a) the intentional use or attempted use of unauthorized materials, information, or study aids in any academic exercise; and/or (b) intentional actions taken to gain unfair or undue advantage over others. Examples of cheating include (but are not limited to):

1. Receiving or providing unauthorized assistance on any work required to be submitted for any course.
2. Using unauthorized materials or assistance during an examination, including looking at another's paper.
3. Alteration or insertion of any academic grade or evaluation so as to obtain unearned academic credit.
4. Taking, or attempting to take, an examination for another student. This act constitutes a violation for both the student enrolled in the course and for the proxy or substitute.
5. Tampering with another student's work or impairing the professor's ability to assess the academic performance of another student.
6. Using false excuses to obtain extensions of time or other considerations which would or may yield an unfair advantage over other students.
7. Impeding the ability of students to have fair access to materials assigned or suggested by the professor (e.g., removal or destruction of library or other source materials).
D. Fabrication is the intentional and unauthorized falsification or invention of any information or citation in an academic exercise. Examples of fabrication include (but are not limited to):
8. The offering of contrived or fraudulently created information as the result of systematic research that was never conducted.
9. The deliberate alteration of legitimate research data to obtain a desired result.
10. The alteration or distortion of laboratory experiments to reach a desired result.
11. The deliberate distortion of another's work or results in order to rebut or undermine the original author's work or concept.
E. Facilitating Academic Dishonesty is the intentional help, or attempt to help, another student to violate any provision of this Code. Examples of facilitating academic dishonesty include (but are not limited to):
12. Instigating, encouraging, or abetting plagiarism, cheating, or fabrication in others.
13. Giving perjured testimony before the Student Court.
14. Intimidating or attempting to intimidate witnesses appearing before the Student Court.
15. Failing to report a suspected violation of the Honor Code.
16. Deliberately misleading or deceiving University administrators conducting an investigation of a violation.

## III. Reporting Procedures for Honor Offenses

Academic dishonesty is contrary to the purposes of the University, unfair to other students, and demeaning to those who engage in it. It will not be tolerated at Armstrong Atlantic State University. A suspected honor violation may be reported in one of two ways:
A. Self-reporting. Students who have committed an honor violation should report themselves to a University official in the Division of Student Affairs or to a faculty member.
B. Reporting by others.

1. Anyone (faculty member or student) who is aware of an honor violation may tell persons believed to have committed the offense to report themselves to a University official in the Division of Student Affairs or to a faculty member no later than the end of the next class day. After this period, the person who is aware of the violation must inform either a University official in the Division of Student Affairs or a faculty member.
2. Anyone (faculty member or student) who is aware of an honor violation may report the offense directly to a University official in the Division of Student Affairs without informing the accused.
3. When the Division of Student Affairs receives a report of a possible honor offense in some manner other than in person (e.g., in writing or voice mail), the Division of Student Affairs shall expeditiously advise the person reporting the alleged violation that the Division of Student Affairs has received the report.
4. Anyone wishing to report a suspected violation may come to the Division of Student Affairs or to the Office of the Vice-President for Academic Affairs for assistance.

## IV. Adjudication Procedures for Honor Offenses

If the severity of the offense, in the studied opinion of the faculty member, is of a magnitude to warrant suspension or expulsion from the University, formal adjudication procedures involving a hearing before the Student Court are required. Lesser offenses may be handled through an informal process in which the faculty member and the student jointly agree to resolve the issue. Student grades for an individual assignment and/or for the overall course will be held in abeyance until any appeals are concluded and the final decision on the case is rendered by the appropriate University official.

Where sufficient evidence exists that a violation of a municipal, state, or federal law has occurred, the Vice-President for Student Affairs shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with the violation of the Code of Conduct if the interest of the University has been compromised by a student's conduct. A. Informal adjudication procedures.

1. When a student becomes aware of another student's possible academic misconduct and chooses to report it to the professor, or when the professor suspects academic misconduct, the professor should inform the student(s) involved and undertake an investigation of the matter. If the professor is then convinced that a minor violation did occur, the professor and the accused have the option of attempting to resolve the issue informally and in a nonadversarial manner. If both agree, the following procedures may be utilized.
2. For an informal and non-adversarial adjudication the following criteria pertain:
a. The offense must not rise to the level of a major violation in which expulsion or suspension is a potential penalty.
b. The faculty member will provide the student with written notice of a scheduled meeting at least three calendar days (excluding weekends) prior to the meeting. The purpose of the meeting will be to review and discuss the charges before a final decision is reached.
c. A neutral observer may be present at the request of the faculty member to facilitate the process so that relevant information from each party may be heard and evaluated.
d. Documentary evidence and written statements may be relied upon by the faculty member, as long as the student is allowed to respond to them at the meeting. Students may also be allowed to bring relevant witnesses.
e. If the accused admits to the violation, the professor and the student may then resolve the problem in a manner acceptable to both. If the accused denies the violation, or does not accept the sanction(s) determined by the professor, then the case must be referred to the Division of Student Affairs within twenty-four hours.
f. Should the faculty member conclude that there was no violation of the Honor Code, the case is closed.
g. Upon conclusion of the process, the faculty member and student must both sign and date the appropriate University form, detailing the specific offense(s) and the penalty assessed. Each party will retain a copy and the original shall be deposited with the VicePresident for Student Affairs to assure that repeat offenders are penalized accordingly.
h. The student and the professor shall both be permitted a grace period of seventy-two hours in which to consider the process and penalty. Within that period, either may revoke the decision to accept the informal process and/or the penalty.
i. Should either party exercise the right of revocation, the case will then automatically be transferred to the Vice-President for Student Affairs for formal proceedings.
j. If the alleged violation occurs during final examinations, a grade of Incomplete shall be issued until the matter is resolved.
3. It is strongly recommended that the faculty member advise and consult with the department head (or College dean, if appropriate) throughout the process.
B. Formal adjudication procedures for honor offenses.
4. If the accused opts for a hearing before the Student Court, or if the involved faculty member deems that the alleged offense is of sufficient severity to merit a major sanction, the following procedures pertain:
a. The Vice-President for Student Affairs shall conduct an investigation into the alleged offense solely to determine whether there exists a sufficiency of cause or evidence to merit a continuation of the proceedings. In this investigative stage, the Vice-President for Student Affairs shall follow the standing policies established within the Division of Student Affairs for this purpose.
b. If the Vice-President for Student Affairs determines that the evidence available is insufficient, or is likely to be insufficient, to enable the Student Court to reach a reasonable conclusion as to guilt or innocence, the Vice-President for Student Affairs may, in accordance with established policies, recommend against further proceedings.
c. The above notwithstanding, the faculty member in whose class the alleged offense occurred shall have the right to have the case referred to the Student Court regardless of the investigatory conclusions of the Vice-President for Student Affairs.
d. If the alleged violation occurs sufficiently late in the term to preclude resolution of the issue prior to the end of the term, a grade of Incomplete shall be issued until the matter is resolved
5. If the investigation by the Vice-President for Student Affairs determines there is sufficient cause or evidence to enable the Student Court to reach a reasonable conclusion as to the guilt or innocence of the accused, the case shall be forwarded to the Student Court.
a. The accused will be notified in writing by the Student Court or its designated representative of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against them. This notification shall occur no fewer than five calendar days prior to the date of the Student Court hearing.
b. The Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
c. A written copy of the Court's decision shall be given to the student concerned and to the Vice-President for Academic Affairs as a recommendation for administrative action.
d. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.
C. Procedural Rights of Students Before the Student Court.
6. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Vice-President for Student Affairs at least five calendar class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.
7. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings except to advise the client. It is customary, but not required, that the advisor will be drawn from the University community.
8. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.
9. 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.
10. The accused shall have access to a tape of the hearing upon request of the student.
11. The substantive facts of a case may be re-opened for consideration by the Student Court upon initiation of the accused. The accused shall not be put in double jeopardy.
12. All witnesses will be sequestered from the hearing room during the course of a hearing.
13. Witnesses may not discuss a pending case.
14. The Student Court may, at its discretion, exclude members of the media from proceedings occurring in the academic arena, as permitted by the laws of the State of Georgia.
E. Major Sanctions.
15. Expulsion: The permanent severance of the student's relationship with the University.
16. Suspension: The temporary abrogation of a student's relationship with the University.
17. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the University, students may be summarily suspended by the VicePresident for Student Affairs, the Vice-President for Academic Affairs, or the President of the University.
F. Minor Sanctions:
18. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.
19. Written reprimand: a written statement of disapproval to the student which will be retained in the student's file as long as he remains at Armstrong Atlantic State University.
20. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include restrictions, reprimands, or other appropriate sanctions.
21. Assignment of a grade of " 0 " for either the course assignment at issue or for the overall course grade (i.e., complete loss of credit for the course).

## V. Conduct Offenses

Personal misconduct which brings discredit upon the student or the University are violations of the Code of Conduct and will not be tolerated.
A. Personal misconduct includes (but is not limited to) the following:

1. Disorderly or obscene conduct or breach of the peace on University property or at any functions sponsored or supervised by the University or any recognized University organization.
2. Physically assaulting, or threatening physical assault against, any member of the faculty, administration, staff, or student body, or any visitor to the campus.
3. Sexual assault (i.e., intentionally making physical contact with the intimate parts of the body of another for sexual gratification without the consent of that person).
4. Sexual harassment (i.e., unwelcome sexual advances or conduct, creation of a hostile environment as perceived by the complainant, or the demand for sexual favors in return for some benefit).
5. Any disruption of a positive learning environment in the classroom or actions which impede the ability of other students in the classroom to learn or the ability of the professor to teach (e.g., blatantly inappropriate personal behavior, cellular phones, pagers).
6. Personal conduct on University property, or at functions sponsored or supervised by the University or any recognized University organization, which materially interferes with the normal operation of the University or the requirements of appropriate discipline.
7. Any act of intimidation or harassment, physical force or violence, or threat of physical force or violence that is directed against any person or group of persons including, but not limited to, acts motivated by ethnicity, race, national origin, religion, gender, sexual orientation, disability, or political beliefs.
8. Theft or abuse of computer facilities or computer time, including but not limited to:
a. unauthorized entry into, or manipulation or transfer of, a file;
b. unauthorized use of another individual's identification or password;
c. use of computing facilities to interfere with the work of another student, faculty member or University official;
d. use of computing facilities to interfere with a University computing system.
9. No student shall use the University computing facilities to violate Federal, State or local laws or University policy. For purposes of this provision, "computing facilities" includes computers and data and/or voice communications networks.
10. Interfering with, or giving false name to, or failing to cooperate with any properly identified University employees while these persons are in the performance of their duties.
11. Lewd, indecent, obscene conduct or expression.
12. Conduct that is a crime under the criminal laws of Georgia, or of the United States, which takes place on University property or at a University activity.
13. Entering, or attempting to enter, any event which is sponsored or supervised by the University or any recognized University organization, whether on- or off-campus, without credentials for admission (e.g. ticket, identification card, invitation, etc.) or other reasonable criteria established for attendance. At these University functions a student must present proper credentials to properly identified University faculty or staff upon request.
14. The malicious or unauthorized intentional damage or destruction of property belonging to a member of the University community, or to a visitor of the campus.
B. Campus Disruption. Students and faculty have the right to a campus atmosphere which is free of violence, disruption, or distraction. The instigation or incitement of, or the participation in, any act which endangers, disrupts, or otherwise disturbs the rights of students or faculty, is a violation of the Code of Conduct.
15. No student shall assemble on campus for the purpose of creating a riot, destruction, or disorderly diversion which interferes with the normal operation of the University. This shall not be construed so as to deny any student the right of peaceful, non-disruptive assembly.
16. No student or group of students shall obstruct the free movement of other persons about the campus or interfere with the normal operation of the University, including teaching, research, administration, disciplinary procedures, or other University activities.
17. The abuse or unauthorized use of sound amplification equipment indoors or outdoors during classroom hours is prohibited. (Use of sound amplification equipment must have prior approval by the Division of Student Affairs.)
C. Miscellaneous Violations of the Code of Conduct: The following rules and regulations are intended to provide a safe, secure, and productive environment for the enjoyment and appreciation of the University community.
18. Falsification of Records and Contracts:
a. No student shall alter, falsify, counterfeit, forge, or cause to be altered, falsified, counterfeited, or forged any records, forms or documents used by the University.
b. Violation of contractual agreements between a student and the University, including but not limited to, written financial aid agreements will be subject to discipline under this Code.
19. Explosives:
a. No student shall possess, furnish, sell, or use explosives of any kind on University property or at functions sponsored by the University or any recognized University organization.
b. No student shall make, or cause another individual to make, false bomb threats.
20. Fire Safety:
a. No student shall tamper with fire safety equipment.
b. The unauthorized possession, sale, furnishing, or use of an incendiary device is prohibited.
c. No student shall set, or cause to be set, any unauthorized fire in or on University property.
d. No student shall make, or cause to be made, a false fire alarm.
e. The possession or use of fireworks on University property or at events sponsored by the University or any recognized University organization is prohibited. Fireworks are defined as any substance prepared for the purpose of producing a visible or audible effect of combustion, explosion, or detonation.
21. Weapons: Students are prohibited from possession of firearms on University property or at events sponsored or supervised by the University or any recognized University organization. The possession or use of any other offensive weapon is prohibited. (Exceptions may be made for official use authorized by the University or as authorized by special procedures approved by the Criminal Justice Training Center for its students who are sworn peace officers.)
22. Hazing: All rites and ceremonies of induction, initiation, continued membership, or orientation into University life or into the life of any University group that tend to promote or inflict physical or mental suffering, or include the destruction of public or private property, are prohibited.
23. Joint Responsibility for Infractions: Students who knowingly act in concert to violate University regulations have individual and joint responsibility for such violations.
24. Student Identification Cards:
a. Lending, selling, or otherwise transferring a student identification card is prohibited.
b. The use of a student identification card by anyone other than its original holder is prohibited.
25. Theft: No student shall take, attempt to take, or keep in his possession items belonging to students, faculty, staff, student groups, or visitors to the campus without proper authorization.
26. Drugs: The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of substances controlled by Federal or Georgia law is prohibited.
27. Neither alcoholic beverages nor their consumption are permitted in any University facilities, buildings, or property except as provided for in the standing University policy on alcohol. This exemption notwithstanding, under no circumstances is anyone under the age of 21 permitted to consume alcoholic beverages in any University facilities, buildings, or property.
28. Gambling: The playing of cards or any other game of chance or skill for money or other items of value is prohibited.
29. Tobacco: Use of all tobacco products is prohibited in all University buildings.
30. Unauthorized Entry or Use of University Facilities:
a. No student shall make unauthorized entry into any University building, office or other facilities, nor shall any person remain without authorization in any building after normal closing hours.
b. No student shall make unauthorized use of any University facility.
D. Repeated Violations: Repeated violations of published rules or regulations of the University, which cumulatively indicate an unwillingness or inability to conform to the Code of Conduct, will result in sanctions of escalating severity.
E. Violation of Outside Law: Violation of local, state or federal law, on or off the campus, constitutes a violation of the Code of Conduct and may result in administrative University sanctions in addition to those of the appropriate law enforcement department.
F. Additional Violations: Under this Code of Conduct, sanctions may be imposed for the violation of any University rule subsequently promulgated by the University.
G. Group Offenses:
31. Offenses by recognized groups fall under the jurisdiction of the Student Activities Committee and shall be referred to that committee for action.
32. Actions of individual members of a group which constitute a conduct offense shall be dealt with under the provision of the Student Code of Conduct.

## VI. Reporting Procedures for Conduct Offenses

It is imperative that all conduct violations be adjudicated promptly and fairly. Therefore, all conduct violations will be immediately reported to a University official in the Division of Student Affairs by any person who has knowledge of the commission of any such violation.

## VII. Adjudication Procedures for Conduct Offenses

Where sufficient evidence exists that a violation of a municipal, state, or federal law may have occurred, the Vice-President for Student Affairs shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with the violation of the Code of Conduct if the interest of the University has been abused by a student's conduct.
A. Formal adjudication procedures for conduct offenses. (NB: there are no informal adjudication procedures for conduct offenses; all such violation must utilize the following steps.)

1. The Vice-President for Student Affairs shall insure that the best interests of any accused student are served, regardless of whether disciplinary action is taken, by making sure that the student is advised of his rights.
2. Where the evidence establishes that a conduct offense may have occurred, the VicePresident for Student Affairs shall advise the accused of the charges being considered. The student then has the right to have the offense handled administratively by the VicePresident for Student Affairs or to have the case referred to the Student Court.
a. If the student prefers that the case not be referred to the Student Court, the student shall be required to sign a document waiving the right to such a hearing.
b. The case will then be adjudicated by a University official in the Division for Student Affairs.
3. If the accused opts for a hearing before the Student Court, the accused will be notified in writing by the Student Court or its designated representative of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against them. This notification shall occur no fewer than five calendar days prior to the date of the hearing.
4. If the student chooses to have the case heard by the Student Court, the Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
5. A written copy of the Court's decision shall be given to the student concerned and to the Vice-President for Student Affairs as a recommendation for administrative action.
6. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.
B. Procedural Rights of Students.
7. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Vice-President for Student Affairs at least three class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.
8. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings except to advise the client. It is customary, but not required, that the advisor will be drawn from the University community.
9. 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.
10. 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.
11. The accused shall have access to a tape of the hearing, upon request of the student.
12. The substantive facts of a case may be re-opened for consideration by the Student Court upon initiation of the accused.
13. All witnesses will be sequestered from the hearing room during the course of a hearing.
14. Witnesses may not discuss a pending case.
15. By prior agreement, the accused will be allowed such observers of the hearing as may be commensurate with the space available. Otherwise, to protect the privacy rights of the accused, hearings will be closed, except that the University may also have observers in addition to the advisors to the Student Court.
C. Major Sanctions.
16. Expulsion: The permanent severance of the student's relationship with the University.
17. Suspension: The temporary abrogation of a student's relationship with the University.
18. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the University, students may be summarily suspended by the VicePresident for Student Affairs, the Vice-President for Academic Affairs, or the President of the University.
D. Minor Sanctions:
19. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.
20. Written reprimand: a written statement of disapproval to the student which will be retained in the student's file as long as he remains at Armstrong Atlantic State University.
21. Restitution: Reimbursement for damage to or misappropriation of property. This may be in the form of appropriate service or other compensations and may be imposed in addition to other sanctions.
22. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include one or more of the following: restrictions, reprimand, and/or restitution.

## VIII. The Student Conduct Committee, the Student Court, and Advisors to the Student Court

A. Student Conduct Committee:

1. The Student Conduct Committee shall be responsible to the faculty for recommending policies relating to the Academic Honor Code and the Code of Conduct, for formulating or approving rules, enforcement procedures, and sanctions within the framework of existing policies, and for recommending changes in the administration of any aspects of the Honor Code and the Student Code of Conduct. The Conduct Committee will also interview and select members for the Student Court.
2. The Committee shall consist of five 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 will be appointed by the faculty in accordance with the faculty statutes.
3. The Vice-President for Student Affairs shall assist the Conduct Committee in the development of policy and in the discharge of its responsibilities. He shall coordinate the activities of all officials, committees, student groups, and tribunals for student conduct.
4. All regulations or rules relating to student conduct that are proposed by any University official, committee or student group, and for which sanctions may be imposed in the name of the University, must be submitted to the Committee for consideration and review prior to submission to the faculty and the student body. The Committee shall have ten days in which to review the same.
B. Student Court:
5. The Student Court will be selected by the Student Court Selection Committee and will be composed of no less than twelve students. Due consideration will be given to equitable apportionment of such members on the basis of academic class, race, and sex. Students on academic probation may not serve. All appointments will be issued and accepted in writing. Appointments will be made as needed to keep the Student Court staffed to do business in a prompt manner. These appointments may constitute permanent or temporary replacements as the Student Conduct Committee deems necessary.
6. The Student Court will elect a President, Vice-President, and a Secretary from its membership. The President will preside at all meetings. The Vice-President will assume the duties of the President if the President is absent. A quorum of the Court shall consist of seven members. A two-thirds majority secret ballot vote is required to reach a finding of guilty. Sanctions and other issues may be decided by simple majority vote.
7. Student Court Members shall examine their consciences carefully to determine whether they can, in good conscience, serve on a panel hearing a particular case. In the event that there is any doubt whatsoever, such members shall excuse themselves from duty on the panel in question.
C. Advisors to the Court:
8. An advisor and an associate advisor to the Student Court shall be appointed by the President of the University.
9. Ordinarily the advisor will serve in that office for one year only and usually will be succeeded in the position by the associate advisor. Therefore, after the initial appointments, the associate advisor will be appointed each year. The succession of an associate to the advisor position should occur on the last day of Spring Semester. If, for any reason, the advisor is unable to complete his/her term, the associate advisor shall succeed to the office of advisor and another associate advisor shall be appointed by the above procedures. If neither advisor is on campus, a temporary advisor will be appointed.
10. It shall be the duty of the advisor to consult with the Court and to offer advice to the President and the members of the Court on substantive and procedural questions. The advisor, or the associate advisor in the event the advisor is unable to attend, shall be present at all meetings and hearings of the Court. The advisor may not vote or participate directly in the conduct of hearings before the Court except through the chair, or acting chair of the Court. The advisor should be governed at all times by the principle that a hearing before the Student Court is primarily the responsibility of the students.

## IX. Appeals Procedures

A. Determination of guilt or imposition of punishment: The accused shall have no right of appeal, in any forum, from either the determination of guilt or the punishment imposed, if any.
B. Procedural irregularities or flaws: The accused shall have the right of appeal only for possible procedural flaws or irregularities that are sufficient to deny, or give the appearance of denying, inherent fairness and justice to the accused.
C. The student shall have five days from the receipt of notice of the final administrative action by the Vice-President for Student Affairs to appeal to the President of the University, provided that the basis for the appeal is limited to procedural irregularities or flaws..

## X. Supervision of the Student Court

A. As an institutional means of responding to reported infractions of the Honor Code and the Code of Conduct, the Student Court is ultimately responsible to the President of the University.
B. The Vice-President for Student Affairs and the Advisors will, in accordance with Article V, Section B. 5 of the Statutes in the University Faculty Handbook, provide general supervision of the Student Court and will provide other guidance or services as directed by the President of the University.
C. Taped records of all testimony, and exhibits of evidence which by their nature may reasonably be maintained, shall he held in the Division of Student Affairs

## XI. Revision of the Codes

A. Revision or amendment of misconduct offenses by the Student Conduct Committee will require confirmation by majority vote of those faculty and student members voting and will require that two-thirds of the Committee be present.
B. All amendments establishing additional rules of conduct and/or imposing sanctions shall be placed in writing and issued at least once in an official publication. The University's failure to comply with these requirements shall be a complete defense to any charge of violation of a rule of which the student has no actual knowledge. A student's failure to familiarize himself with these additional rules shall not be adequate defense. Any such additional rules shall be posted on the bulletin board in the Memorial College Center for a period of ten days before the effective date thereof.

## Appendix II

## Armstrong Atlantic State University Harassment Policy

It is the policy of this university that all faculty, staff and students have the opportunity to study and work in an atmosphere and environment free from any form of harassment or retaliation. Harassment or retaliation constitute discrimination under various state and federal laws and will not be tolerated by the university.

## Definition of Harassment

Harassment is defined as verbal or physical conduct that denigrates or shows hostility or aversion toward an individual because of race, color, religion, gender, sexual orientation, national origin, age or disability or that of their relatives, friends or associates, and that:

- Has the purpose or effect of creating an intimidating, hostile or offensive work or study environment; or
- Has the purpose or effect of unreasonably interfering with an individual's work or study performance; or
- Otherwise adversely affects an individual's employment or study opportunities.


## Examples of harassing conduct include, but are not limited to the following:

- Epithets, slurs, negative stereotyping, or threatening, intimidating or hostile acts that relate to race, color, religion, gender, sexual orientation, national origin, age or disability;
- Written or graphic material that does not serve an academic purpose that denigrates or shows hostility or aversion toward an individual or group because of race, color, religion, gender, sexual orientation, national origin, age or disability and that is placed on walls, bulletin boards or elsewhere on university premises or circulated in the workplace or the classroom.


## Definition of Sexual Harassment

Pursuant to Title VII of the Civil Rights Act of 1964 and Title IX of the Educational Amendments of 1972, "sexual harassment" is defined as unwelcome sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature when:

- submission to such conduct is made either implicitly or explicitly a term or condition of an individual's employment or status in a course, program or activity; submission or rejection of such conduct by an individual is used as the basis for employment or educational decisions affecting such individual;
- such conduct has the purpose or effect of interfering with the individual's work or educational performance; of creating an intimidating, hostile, or offensive working and/or learning environment; or of interfering with one's ability to participate in or benefit from an educational program or activity.


## Examples of sexual harassment may include, but are not limited to the following:

- Physical assault which may carry criminal penalties as well.
- Direct or implied threats that submission to sexual advances will be a condition of employment, work status, compensation, promotion, grades, or letters of recommendation.
- Sexual advances, physical or implied, or direct propositions of a sexual nature. This activity may include inappropriate/unnecessary touching or rubbing against another, sexually suggestive or degrading jokes or comments, remarks of a sexual nature about one's clothing and/or body, preferential treatment in exchange for sexual activity, and the inappropriate display of sexually explicit pictures, text, printed materials, or objects that do not serve an academic purpose.
- A pattern of conduct, which can be subtle in nature, that has sexual overtones and is intended to create or has the effect of creating discomfort and/or humiliating another.
- Remarks speculating about a person's sexual activities or sexual history, or remarks about one's own sexual activities or sexual history that do not serve a medical, employment or academic purpose.

Armstrong Atlantic State University ("the University") is committed to maintaining a fair and respectful environment for living, work and study. To that end, and in accordance with federal and state law and Board of Regents' policy, the University prohibits any member of the faculty, staff, student body, or visitors to campus, whether they be guests, patrons, independent contractors, or clients, from harassing any other member of the University community. Any form of harassment will be met with appropriate disciplinary action, up to and including dismissal from the University.

## Definition of Retaliation

Retaliation is any adverse action taken against an individual(s) for filing an action of discrimination, participating in an investigation, or opposing discriminatory practices. Retaliation is prohibited. Retaliatory action is illegal. Actions taken in retaliation for the filing, in good faith, of complaints of harassment are prohibited regardless of whether the claim of harassment is determined to be valid or unfounded. Reprisal in any form should be reported to a supervisor or university administrator. Retaliatory behavior will not be tolerated and is subject to disciplinary action by the university that can result in sanctions up to and including termination of employment.

## Examples of retaliatory actions include, but are not limited to:

- assigning inappropriately low grades.
- giving deflated performance evaluations.
- employment termination.
- punitive scheduling.
- withholding of deserved support for promotion and tenure.
- assigning inadequate and undesirable space.
- undeserved demotion.
- punitive work assignments.


## Amorous or Sexual Relationships

Armstrong Atlantic State University's educational mission is promoted by professionalism which is fostered by an atmosphere of mutual trust and respect. Trust and respect are diminished when those in positions of authority abuse that authority or place themselves in a situation of perceived or actual conflict of interest. A conflict of interest is created when an individual evaluates or supervises another individual with whom he or she has an amorous or sexual relationship. Such relationships, even when consensual, may be exploitative, and they imperil the integrity of the work or educational environment. They also may lead to charges of sexual harassment. Thus, the University discourages amorous or sexual relationships between supervisors/subordinates and between faculty/students.

Whenever a conflict of interest situation arises or is foreseen, the employee in a position of authority must resolve any potential conflict of interest by taking necessary steps which may include removing himself or herself from evaluative decisions concerning the other individual. If he or she is unable to personally resolve the conflict of interest, he or she is required to inform the immediate supervisor promptly and seek advice and counsel in dealing with the conflict. The employee, along with the supervisor, is responsible for taking steps to ensure unbiased supervision or evaluation of the employee or student. Failure to resolve potential or actual conflict of interest situations as described in this policy may result in disciplinary action.

Faculty may have a significant role in academic personnel matters affecting their colleagues and students. Faculty who engage in amorous or sexual relationships with other faculty or students may place themselves in a conflict of interest situation. When this occurs, a faculty member must be sensitive to how the relationship may influence academic personnel decisions. Faculty must make every effort to resolve any situation involving a conflict of interest.

## Student-to-Student Harassment

Any form of harassment between students, neither of whom is employed by the University, should be treated as a disciplinary matter and should be reported to the Office of Student Affairs.

## Responsibility of Students and Employees

All students and employees should report any form of harassment that they experience, observe, hear about, or believe may be occurring. No student or employee should assume that an official of Armstrong Atlantic State University knows about a specific situation.

## Academic Freedom

Academic freedom shall be considered in investigating and reviewing complaints and reports of harassment. However, raising issues of academic freedom will not excuse behavior that constitutes a violation of the law or the University's harassment policy.

## Processing of Harassment Reports and Complaints Definitions

- Harassment Prevention Officer

The Harassment Prevention Officer is the individual or individuals designated by the President to be primarily responsible for investigating reports and complaints of harassment in accordance with the procedure. The Harassment Prevention Officer must be designated by name, telephone number, and location. The Harassment Prevention Officer is authorized to designate other individuals to assist with investigating harassment complaints and reports as deemed appropriate.

- Decision-making Authority

The Decision-making Authority is the individual designated to review investigative reports, to make findings whether the harassment policy has been violated based upon the investigation, and to determine the appropriate action for the University to take based upon the findings. The Decision-making Authority will be the Vice President and Dean of the Faculty or his /her designee. If the respondent in a harassment complaint or report is the Vice President and Dean of the Faculty, the Decision-making Authority will be the President. If the Respondent in a harassment complaint or report is the President, the Decision-making Authority will be the Chancellor.

## Reports and Complaints

- All reports and complaints of any form of harassment will be promptly investigated and appropriate action will be taken as expeditiously as reasonably possible. Complaints and reports of harassment should be reported as soon as possible after the incident(s) in order to be most effectively investigated. The University will make reasonable efforts to protect the rights of both the complainant and the respondent. The University will respect the privacy of the complainant, the individual(s) against whom the complaint is filed, and the witnesses in a manner consistent with the University's legal obligations to investigate, to take appropriate action, and to comply with any discovery or disclosure obligations required by law.
- The University encourages any person who feels he or she has been harassed to report the incident to the Harassment Prevention Officer. Any student, faculty member, or employee who knows of, receives information about or receives a complaint of harassment should report the information or complaint to the Harassment Prevention Officer. Administrators and supervisors must report incidents of harassment which are reported to them to the Harassment Prevention Officer in a timely manner.


## Investigation and Resolution

- The University's complaint process, outlined herein, is the procedure to be used to end inappropriate behavior, investigate for the purpose of fact finding, and facilitate resolution of complaints involving allegations of harassment. However, as part of the complaint process, the Harassment Prevention Officer may recommend that the complainant and respondent attempt
to resolve their differences through mediation. The University reserves the right to investigate and resolve a complaint or report of harassment regardless of whether the complainant pursues the complaint. In such cases, the respondent shall be informed of the status of the investigation at reasonable times up until the University's final disposition of the complaint, ensuring that the respondent is able to respond to the substance of the complaint during meetings convened by the Decision-making Authority to consider discipline based upon the substance of the investigative report.
- These procedures do not replace the right of complainants or respondents to pursue other options or remedies available under the law.


## Informal Process

The following procedures for informal resolution are optional. The Harassment Prevention Officer shall determine whether and/or how to proceed. The goal of informal resolution is to stop inappropriate behavior, investigate, and facilitate resolutions, if possible. If a complainant is able and feels safe, he or she should clearly explain to the alleged offender that the behavior is objectionable and request that it cease. The complainant should do so as soon as possible after the incident occurs.

The complainant may utilize the assistance of the Harassment Prevention Officer. Communication with the alleged offender may be in person, on the telephone, or in writing. If the behavior does not stop, or if the complainant believes some adverse employment or educational consequences may result from the discussion, he or she should go to the next higher level of supervision to document the complaint. The supervisor should report the complaint to the Harassment Prevention Officer. The Harassment Prevention Officer will work with the supervisor to facilitate a resolution of harassment complaints at the local level when deemed appropriate.

If an allegation of harassment is pursued through the University's informal procedure, the Harassment Prevention Officer must be contacted in order to initiate a complaint. The complaint should be brought as soon as possible after the most recent incident. The Harassment Prevention Officer will:

- determine whether the complaint is one which should be processed through another university dispute resolution procedure, such as mediation, available to the complainant; if appropriate, the Harassment Prevention Officer shall refer the complainant to that procedure(s) as soon as possible;
- inform the individual of the provisions of both the informal and formal discrimination/ harassment complaint procedures and provide a copy of the complaint procedure;
- inform the person against whom the complaint is being brought of its existence;
- maintain appropriate documentation;
- disclose appropriate information to others only on a need-to-know basis consistent with state and federal law. An informal complaint may be investigated without identifying the complainant, if in the judgment of the Harassment Prevention Officer, this would increase the likelihood of satisfactory resolution of the complaint. While confidentiality cannot be guaranteed, care will be taken to keep investigation discussions sufficiently broad to protect the complainant's identify when requested. If the Harassment Prevention Officer finds there is evidence that the complained behavior occurred, he/she may use one or more of the following methods (which may also be part of the formal process) to stop the behavior:
- discussing the matter with the alleged offender, informing him or her of the policy and indicating that any inappropriate behavior must stop;
- suggesting counseling and/or sensitivity training;
- conducting training for the unit, division, or department, calling attention to the consequences of engaging in such behavior;
- requesting a letter of apology to the complainant;
- facilitating meetings between the parties; and separating the parties, etc.
- composing a written letter of agreement confirming that respondent has been informed of the policy, identifying and accepting the Harassment Prevention Officer's resolution of the complaint, and stating that retaliation is prohibited. During the informal process, the Harass-
ment Prevention Officer may keep the supervisor/administrator informed of the status of the complaint and may seek input from the appropriate supervisor/administrator when implementing corrective action.
If the informal procedures do not resolve the complaint within a reasonable period of time to the satisfaction of the Harassment Prevention Officer or the Harassment Prevention Officer feels that additional steps should be taken, he/she should commence the formal procedures unless reasonable delays are deemed appropriate.


## Formal Process

If a complaint is not resolved through the informal complaint procedures or if the Harassment Prevention Officer determines that the complaint should be pursued through formal complaint procedures, the formal procedures must be used. The Harassment Prevention Officer or his/her designee will:

- secure a formal complaint in writing. The complaint must include a detailed description of the allegations upon which the charge is based, a list of possible witnesses as deemed appropriate by the Harassment Prevention Officer, and the resolution sought.
- notify the respondent in writing of the nature of the allegations and include a copy of the harassment policy and process. The respondent may provide a written response to the allegations.
- conduct an investigation of the complaint, including appropriate interviews and meetings. The Harassment Prevention Officer may convene a committee to assist in conducting the investigation, as needed. Although attorneys are prohibited from participating in interviews and meetings between the Harassment Prevention Officer and the complainant or other witnesses, they may accompany and provide confidential advice to their client.
- prepare a report to the Decision-making Authority.
- the report may be provided to the complainant and/or respondent as deemed appropriate in keeping with state and federal law. After receiving the report of the Harassment Prevention Officer, the Decision-making Authority may, at his/her discretion, meet with either party; request additional information which may include written arguments from the complainant/ respondent relating to the allegations of the complaint; or take other measures deemed necessary to reach a decision. The Decision-making Authority will report in writing to the parties and the Harassment Prevention Officer, his or her findings as to whether or not the harassment policy has been violated. The Decision-making Authority will take into account the surrounding circumstances; the nature of the behavior; the relationship(s) between the parties; the context in which the alleged incident(s) occurred; and other relevant facts upon which he/she relied in reaching a decision. If the Decision-making Authority makes the judgment that a violation of policy has occurred he or she will determine the nature and scope of sanctions and when/how to implement sanctions.


## Investigative Data

During the investigation, the Harassment Prevention Officer will keep confidential to the extent permitted by state and federal law the information gathered during the investigation. The Harassment Prevention Officer shall exercise due care in sharing identifiable information about students, staff or faculty at all times.

## Summary Action

The President or designee may impose a summary suspension prior to the resolution of informal or formal proceedings. However, a summary suspension may be imposed only when, in the judgment of the President, the accused individual's presence on campus would constitute a threat to the safety and well-being of members of the campus community. Before implementing the summary suspension, the accused individual shall be given written notice of the intention to impose the summary suspension and shall be given an opportunity to present oral and written arguments against the imposition of the suspension. If the accused individual is summarily suspended, the formal process should be completed within the shortest reasonable time possible,
not to exceed ten (10) working days. During the summary suspension, the accused individual may not enter the campus without obtaining prior permission from the Harassment Prevention Officer.

## University Action

The University will take the appropriate remedial action based on results of the investigation and will follow up as appropriate to ensure that the remedial action is effective. Complainants are encouraged to report any reoccurrences of conduct which were found to violate the harassment policy.

The Decision-making Authority will notify the complainant and respondent, in writing, of the results of the formal investigation. Written notice to parties relating to discipline, resolutions, and/ or final dispositions is deemed to be official correspondence from the University.

## Right to Appeal

Pursuant to this policy, the complainant and the respondent shall have the right to appeal the decision of the Decision-making Authority to the President or his or her designee. In exercising the right of appeal to the President as providedby this procedure, a written appeal must be made within ten (10) working days after written notification of the decision which is being appealed. The President or his or her designee may receive additional information if he or she believes such information would aid in the decision. A decision will be made within a reasonable time and the Harassment Prevention Officer, the complainant, and the respondent will be notified of the decision. During the time of the appeal and review, disciplinary action taken as a result of the original complaint, may be implemented and enforced.

## Education and Training

The University will provide a full range of education and training programs to promote awareness and prevention of harassment. Education and training programs also should include education about the University's harassment policy as well as training for responsible personnel in conducting investigations, management and implementation of the complaint procedure.

## Dissemination of Policy and Procedure

Information regarding this policy will be provided during student orientation, during employee orientation, and to all individuals who volunteer in various positions on campus. Copies of the policy will be readily available in all departments and units of the University. In addition, the policy will be posted on the University's website.

## Record Retention

During an investigation of a complaint, and, upon the completion of an investigation, the custodian of the file shall be the Harassment Prevention Officer. Future access to any file shall be provided in keeping with the Georgia Open Records Act and the Family Educational Rights and Privacy Act.

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[^0]:    * Offered in conjunction with Savannah State University.

[^1]:    English 15-18 hours
    Must include 9 hours of English electives numbered 3000 or above (maximum of 3 hours of 4990)

    Communication 15-18 hours

    1. Two or three courses from ENGL 3720, 4700, 4740, 4750, FILM 5025 or JOUR 3430
    2. Two or three courses from ENGL 5730U, 5800U, 5820U, JOUR 4000, or FILM 5010U

    Film
    15 hours
    15 hours of FILM courses numbered 3000 or above

[^2]:    SPED 4004 INSTRUCTIONAL STRATEGIES IN THE CONTENT AREAS FOR STUDENTS WITH LEARNING DISABILITIES AND BEHAVIOR DISORDERS

    3-2-3
    Prerequisite: admission to special education and SPED 2002 and SPED 3001 and SPED 3003 and SPED 3004 and SPED 3005
    Research based and technology enhanced strategies for teaching study skills and methods for adapting the content curriculum to meet the special learning needs of students with learning disabilities and/or behavioral disorders. Includes practicum.

[^3]:    * Hall, Michael (1997)

    Associate Professor of History
    Ph.D., Ohio University
    M.A., Ohio University
    B.A., Gettysburg College

[^4]:    * Josi, Don (1996)

    Professor of Criminal Justice Ph.D., University of California-Irvine M.A., California State University B.A., California State University

[^5]:    *These definitions are drawn from the publication Code of Academic Conduct, prepared by Gary Pavela (1988)

