

OTHER ACADEMIC AND ADMINISTRATIVE UNITS

Biotechnology Program

Robert M. Kelly, Director

The Biotechnology Program at NC State includes nearly 200 faculty representing 24 departments in the Colleges of Agriculture and Life Sciences, Engineering, Natural Resources, Physical and Mathematical Sciences, Veterinary Medicine, and Humanities and Social Sciences. The program administers minors in Biotechnology at the undergraduate, M.S., and Ph.D. levels, and a Graduate Certificate Program. Research in biotechnology is multidisciplinary encompassing three main areas: molecular biology, biomolecular engineering, and cell culture. One of the unique aspects of our program is the focus on laboratory techniques, including recombinant DNA technology, PCR, gene chip/microarray technology, protein purification, and more. Many curricula offer a great deal of theory about molecular biotechnology, but few allow for the level of hands-on experience that our program does. For more information about the Biotechnology Minor and Graduate Certificate Program, please visit www.ncsu.edu/biotechnology.

Computer Training Unit

Judson Hair, Executive Director
Chip Futrell, Associate Director
phone: (919) 515-8163

Since 1989, the NC State Computer Training Unit has been a leading provider for the IT training needs of the Triangle. CTU operates out of McKimmon Center, utilizing four dedicated, state-of-the-art labs. New classes are introduced on a tri-mester basis and tomorrow's technology is becoming a reality to hundreds of people today.

Whether an individual is looking for a single class to become familiarized with an operating system or is committed to eight weeks of certification training, the Computer Training Unit can address this need. The NC State Computer Training Unit strives to meet the needs of each student. With a hands-on approach to technology, quality training and career guidance are provided to each participant.

Visit the NC State Computer Training Unit Web site today at www.ncsu.edu/ctu for a complete course schedule and certification information.

Continuing and Professional Education

Judson Hair, Executive Director
Chip Futrell, Associate Director
phone: (919) 515-2261
Web site: www.mckimmon.ncsu.edu/cpe.

In keeping with the land-grant tradition of the university, Continuing and Professional Education offers noncredit education and training to all the people. CPE encompasses three sub-units: Office of Professional Development, The Computer Training Unit, and McKimmon Conference and Training Center, focusing on the development, facilitation, and delivery of continuing education and professional programs for business, industry, and other organizations. Intensive learning experiences include practical case studies, problem solving exercises, and presentations from campus as well as noncampus. Up-to-date computer training is also available on a variety of different levels and on a wide range of topics. Special efforts are made to meet the training needs of industry and government agencies through general as well as customized offerings. The university awards Continuing Education Units to participants in qualified programs. Continuing Education Units are part of a nationwide system that provides a uniform measure of attainment in noncredit educational programs.

Distance Education and Learning Technology Applications (DELTA)

Thomas K. Miller III, Vice Provost for DELTA
Lou Harrison, Associate Vice Provost, Educational Technology Services
Donna Petherbridge, Associate Vice Provost, Instructional Support Services
Christine Romer, Assistant Vice Provost for Finance & Business
Rebecca Swanson, Associate Vice Provost of Distance Education
Kay Zimmerman, Associate Vice Provost of Marketing & Partnership Development

Vision. We seek to improve the quality of education by harnessing technology to provide ready access for all learners. In this way we hope to meet the challenges of a changing society.

Mission. Education is the key to a prosperous future for North Carolina. DELTA promotes the quality of education by extending the reach of the faculty, collaboratively applying expertise in technology and pedagogy in an efficient, effective, and service-oriented environment.

DELTA's role within the Office of the Provost is to foster the integration and support of learning technologies in NC State's academic programs, both on the campus and at a distance. DELTA coordinates the funding and production of all distance-based credit programs and courses for the university, and promotes the quality of education by extending the reach of the faculty, collaboratively applying expertise in technology and pedagogy in an efficient, effective, and service-oriented environment. DELTA



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manages the university's learning technology infrastructure, including WolfWare, an in-house developed course management system, Vista, an enterprise learning management system; Elluminate, a tool for synchronous online teaching and learning, and several campus video classrooms. DELTA offers various programs and services that provide training, support, and resources for teaching and learning with technology. These services may range from developing and/or funding distance education courses and programs, to creating technology resources face-to-face instruction, to working with the colleges to create specialized, technology-delivered education programs in support of critical constituencies in our state, such as the U.S. military. For more information, please visit DELTA's Web site at delta.ncsu.edu.

Division of Undergraduate Academic Programs

Park Shops
NC State Box 7105
Raleigh, NC 27695-7105

Web site: www.ncsu.edu/uap
phone: (919) 515-3037
fax: (919) 515-4416

John T. Ambrose, Interim Dean
John T. Ambrose, Associate Dean
Roger A. E. Callanan, Assistant Dean
Pat Cellini, Assistant Dean

Undergraduate Academic Programs Staff: M. Albidrez, B. Alexieff, J. Ambrose, F. Artis, A. Atkin, J. Austin, D. Barnes, T. Barlage, G. Barthalmus, A. Bell, L. Blanton, M. Bowden, K. Bowman, S. Brandt, S. Burnette, D. Burton, R. Callanan, V. Casas, P. Cellini, E. Clegg, Z. Cook, M. Coombs, M. Crossley, K. Curp, J. Day, K. Dittman, C. Doyle, H. Duhart, A. Dupont, M. Early, M. Ellis, K. Franklin, C. Freeman, A. Giro, P. Gress, K. Hauschild, M. Herget, M. Hood, T. Evans-Hunter, D. Jablonski, B. Jereb, G. Johnson, T. Kaasa, J. LaMonte, K. Laraway, E. Lavender, C. Leger, D. Marlowe, A. Matthews, S. Matney, K. McCloud, V. McCollum, M. McConnell, R. McGraw, C. McLean, G. Morell, P. Moses, J. Moylan, C. Muller, H. Murphy, J. Nelson, C. Newkirk-White, K. Outing, C. Raines, E. Reid, E. Robinson, J. Robinson, A. Ruff, M. Russell, M. Rust, K. Sheridan, M. Simpson, D. Sohns, M. Sopher, M. Tetro, M. Toms, M. Tyson, C. Veale, G. Wical, M. Wicker, L. Wilson, B. Windom, K. Ziga

NC State University's Division of Undergraduate Academic Programs promotes excellence and effectiveness in undergraduate education. DUAP is charged with the development of a coherent vision for undergraduate education, the coordination of academic policy and curricular programming, and the strengthening of all academic support programs. DUAP seeks to engage undergraduate students in a wide range of academic activities that enhance their learning and result in more profound intellectual and civic development.

Academic Support Program for Student Athletes

200 Case Athletics Center
NC State Box 7104
Raleigh, NC 27695-7104

Web site: www.ncsu.edu/aspsa
phone: (919) 515-2464
fax: (919) 515-1619

Philip Moses, Executive Director
Carrie Leger, Director

ASPSA is a comprehensive support program for more than 550 student-athletes who represent NC State in NCAA competition that strives to meet the academic, person and professional development needs of all student-athletes, promoting excellence and effectiveness in undergraduate education, computer literacy, leadership, and civic engagement.

ASPSA is committed to extending the educational experience of student-athletes with particular emphasis on empowering students to become strong self-advocates; providing specialized initiatives to facilitate a smooth transition from high school to college while successfully integrating student-athletes into the campus community; enhancing academic skills for student athletes at all skill levels; and providing academic support personalized to the needs of each student-athlete.



Cooperative Education Program

300 Clark Hall
NC State Box 7110
Raleigh, NC 27695-7110

Web site: www.ncsu.edu/co-op_ed
phone: (919) 515-2300
fax: (919) 515-7444

Arnold Bell, Executive Director of Development & Experiential Learning

This optional program is structured so that students will alternate semesters of study with semesters of practical work as sophomores and juniors. Academic work is spread over a three-year period to permit alternating academic semesters with work-experience semesters. Students earn a salary while they are in industry. This income can prove useful in offsetting college expenses. The Co-op plan can be completed in five years, during which time the student receives 12 to 18 months of industrial experience.

Students in all curricula may apply for the Co-op program if they have a grade point average of 2.5 or better. Application for admission into the Co-op program should be made early in the spring semester of the freshman year, however, will be considered during the sophomore year or the first semester of the junior year. Undesignated students must be admitted into a degree program

prior to beginning the first Co-op assignment. Further information may be obtained from the Office of Cooperative Education, 300 Clark Hall.

First Year College

2751 Cates Avenue
 FYC Commons
 NC State Box 7925
 Raleigh, NC 27695-7925

Web site: www.ncsu.edu/fyc
 phone: (919) 515-8130
 fax: (919) 515-8267

Carrie McLean, Director

The First Year College at North Carolina State University provides a point of entry for students who are undecided about their choice of major, but interested in the institution’s mix of science, technology, professional, and liberal studies offerings.

The program employs a student-centered approach to the development of an effective teaching and learning environment. As part of that effort, the First Year College takes into account critical adjustments necessary for successful transition from the demands of high school to those of college. Based on a cognitive-developmental model that promotes the total university experience, the program brings into closer alignment the in-class and out-of-class experiences of students with the intellectual environment to achieve academic success through active involvement and responsibility for their own learning.

At the core of the program are elements of access to quality academic advising, formal and informal interactions with university faculty, support from academically successful upper-class students, guided exploration of the university and its colleges, structured reality-based discussions of issues associated with transition from high school to college and deliberate reflection on the cultural and social offerings available at the university. These elements are addressed through an orientation course taught each semester of the first year, cross-curricular advising, and a specialty programmed living/learning experience in the FYC Village. The program is structured so that time to graduation for students entering through the First Year College is the same as for students who enter the university directly through a major, though FYC students take a year to explore.

First Year Inquiry Program

Park Shops
 NC State Box 7105
 Raleigh, NC 27695-7105

Web site: www.ncsu.edu/firstyearinquiry
 phone: (919) 515-3037
 fax: (919) 515-4416

William Shaw, Interim Director

The First Year Inquiry Program (FYI) is designed specifically for first year students who will take general education courses during their first year at NC State. Each FYI course, which is designated with the “Q” suffix, fulfills a general education requirement (GER). FYI faculty, for whom teaching and student success are priorities, engage FYI students through the use of “Inquiry-guided” teaching methods. The three student-learning objectives for which the FYI program strives are sharpening of critical thinking skills, enhancing development of intellectual maturity and increasing student responsibility for his or her own learning. Students further benefit from experiencing classes with a small faculty/student ratio that fosters a closer relationship among students and professor.

New Student Orientation

204 Park Shops
 NC State Box 7525
 Raleigh, NC 27695-7525

Web site: www.ncsu.edu/orientation
 phone: (919) 515-1234
 fax: (919) 515-5844

Gabe Wical, Director

New Student Orientation provides newly admitted first-year and transfer undergraduate students introductory assistance and continuing services that will aid in their transition to NC State. Our programs expose students to broad educational opportunities, academic expectations and resources, as well as social and developmental opportunities. Most importantly, we begin the process of integrating students into the life of the institution.

Office of Advising Support, Information, and Services

Park Shops
 NC State Box 7577
 Raleigh, NC 27695-7577

Web site: www.ncsu.edu/oasis
 phone: (919) 513-1723
 fax: (919) 513-7542

Roxanna McGraw, Director

The mission of the Office of Advising Support, Information and Services (OASIS) is to provide academic information to current undergraduate students through virtual and face-to-face cross curricular advising. In addition, to these advising services OASIS also provides academic advising internships, academic support to Pack Promise Scholars, adviser development and training, and pre-law advising.



North Carolina State University

Office of Assessment

Park Shops
NC State Box 7105
Raleigh, NC 27695-7105

Web site: www.ncsu.edu/assessment/assess.htm
phone: (919)515-7153
fax: (919) 515-4416

Allen Dupont, Director

The Office of Assessment in the Division of Undergraduate Academic Programs provides support for continuous program improvement for all departments and units serving undergraduate students. The Assessment staff provides training, analysis, and support for on-going assessment of student learning and development. Assessment of student learning outcomes aligns directly with the NC State mission and promotes a culture of learning, improvement, and accountability. We are expected to evaluate all that we do in order to continuously improve student learning and development.

Transition Program

Park Shops
NC State Box 7014
Raleigh, NC 27695-7014

Web site: www.ncsu.edu/transition
phone: (919) 515-7053
fax: (919) 513-7906

Frankye Artis, Director

The Transition Program is a program of support and challenge, which is designed to help students who demonstrate academic or transitional need attain academic success. Students do not apply to the Transition Program; rather, the Office of Admissions refers to the Director of the Transition Program a select set of applications from students who meet criteria for admission to North Carolina State University, but do not meet the requirements for acceptance into the first and second choice majors to which they applied. The Director reviews applications and offers a pre-determined number of students admission to the university through the Transition Program. All students admitted to the program must sign a program contract that commits them to participate in specially designed activities, both personal and academic, during their freshman year.

Undergraduate Research

Clark Hall
NC State Box 7576
Raleigh, NC 27695-7105

Web site: www.ncsu.edu/undergrad-research
phone: (919) 513-4187
fax: (919) 515-4416

George T. Barthalmus, Director

The Office of Undergraduate Research supports and promotes excellent undergraduate opportunities in discovery-, inquiry- and creativity-based scholarship through mentored research experiences with NC State faculty and other national and international scholars and professionals. Undergraduate Research is scholarly study in any discipline in which independent scholarship culminates in advancements in science, technology, engineering, business, the arts, or humanities. Any student chosen by a mentor may participate in undergraduate research. Students from any discipline can engage in the excitement of scholarly research and present their work at quarterly symposia. Research and travel grants are available. Motivated students from high schools, community colleges, and universities from North Carolina, the nation, and the world are invited to participate.

Undergraduate Tutorial Center

Park Shops
NC State Box 7118
Raleigh, NC 27695-7118

Web site: www.ncsu.edu/tutorial_center
phone: (919) 515-3163
fax: (919) 515-5844

Barbara B. Windom, Director

The Undergraduate Tutorial Center provides free academic assistance to NC State students enrolled for credit in any 100- and 200-level classes, primarily in math, physics, chemistry, foreign languages, economics, biology, and 300 level statistics. Several types of assistance are available that are designed to best meet the students' needs, including tutoring by appointment, group tutoring, Supplemental Instruction (SI), and walk-in tutoring. In addition, Writing and Speaking Tutorial Services (WSTS) provides assistance to anyone in the University community who needs help at any stage of the writing process.

Students are eligible to become a tutor for the UTC if they have an established GPA of 3.0 or better and least a B+ in the course(s) they wish to tutor. All new tutors are required to take ECI 210, Introduction to College Tutoring, during the first semester of employment. All tutors are trained in techniques that are designed to help students become independent learners.

University Honors Program

219 Clark Hall
NC State Box 8610
Raleigh, NC 27695-8610

Web site: www.ncsu.edu/honors
phone: (919) 513-4078
fax: (919) 513-4392

Richard L. Blanton, Director

The University Honors Program (UHP) recruits and provides programmatic support to a nationally outstanding and diverse group of students drawn from all the undergraduate colleges at NC State. The UHP stimulates, supports, and empowers its students to participate in the research and extension and engagement missions of NC State. The UHP provides innovative seminars that support

its research focus by emphasizing inquiry and discovery, as well as the broader implications of new knowledge. It offers experimental learning courses to enable students to earn academic credit for research and service projects on campus or in the community. Our students culminate their undergraduate careers with a significant capstone project under the guidance of a faculty member or other professionals. The University Honors Village living-learning community provides a supportive home for many of our participants, and presents them with opportunities to develop their leadership and social skills and to engage in informal learning through study trips, special courses, field trips, and other activities.

The Graduate School

D. K. Larick, Dean
 R. C. Rufty, Associate Dean
 M. Carter, Associate Dean
 L. Borbye, Assistant Dean
 D. M. Shafer, Assistant Dean
 R. Liston, Assistant Dean
 G. Hodge, Interim Assistant Dean
 D. Wilits, Interim Assistant Dean

The Graduate School supports advanced study and research in the fields of agriculture and life sciences, design, education, engineering, natural resources, humanities and social sciences, management, physical and mathematical sciences, textiles, and veterinary medicine.

The school is currently composed of more than 2,400 graduate faculty members. Educated at major universities throughout the world and established both in advanced teaching and research, these scholars guide the university's more than 7,000 Master's and doctoral students from all areas of the United States and many other countries.

The faculty and students have available exceptional facilities including libraries, laboratories, modern equipment, and special research areas. For a list of graduate degrees offered at NC State and details on programs and admissions, consult the *Graduate Catalog*.

Information Technology Division

S. F. Averitt, Vice Provost for Information Technology
 M. A. Vouk, Associate Vice Provost, Director High Performance and Grid Computing
 G. W. Sparks, Director, Communications Technology
 D. V. Norris, Director, Computer Operations and Facilities
 S. N. Martin, Director, Computing Services
 J. Webster, Director, IT Security Services
 C. A. Galloway, Director, Systems
 S. W. Klein, Director, Technology Support Services and NC State University Help Desk

NC State has a tradition of offering its students a leading-edge academic computing environment. Information technology is now an important part of most aspects of NC State student life. Many NC State administrative and academic units are involved in providing online services, information, and other resources for students. Academic computing resources are provided by individual colleges and central IT units.

The Information Technology Division (ITD) designs and supports campus-wide IT infrastructure and academic computing systems and services that are available to all NC State students, faculty and staff. These include the campus multi-gigabit network backbone, a growing wireless computing infrastructure, high-speed Internet access (ResNet) for students living in campus housing, the multi-platform (Window, Unix, Macintosh) distributed academic computing system called Unity, hundreds of software packages available for student use from computing labs, e-mail systems, the university's central web servers, file space, classroom technology support (ClassTech), high performance computing (HPC) for researchers and students in computational science, and friendly Help Desk support staff available to help students and others use the resources available.

All NC State students, faculty and staff automatically receive Unity computing accounts (or Eos/Unity accounts for engineering students). These accounts provide access to the campus-wide academic computing environment, e-mail services, an allocation of network file space with support for personal web pages, and access to Unity computing labs, software applications, and the Internet. Unity/Eos accounts and file space can also be accessed via ResNet and off-campus Internet service providers. The leading-edge Virtual Computing lab provides remote access to high-end applications and HPC facilities. Instructions for logging into accounts and finding help with learning the system are provided during student orientation sessions, online, in Unity computer labs, and from the NC State University Help Desk.

All NC State students may use Unity computer labs. They are equipped with Windows, Unix, and Macintosh workstations that provide direct access to the resources of the Unity computing environment. Colleges and academic departments support additional computing facilities, and overall there are more than 80 student-computing labs on campus, with over 2500 workstations with high-speed network connections available for student use. NC State does not require all students to own computers, although specific colleges or programs may make this requirement. Information about computer recommendations, specifications, and purchasing options are published online and updated each semester.

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For the most current information about NC State's computing resources, including online tutorials, student-owned computer recommendations, and acceptable use rules and regulations, see www.ncsu.edu/it/essentials. Visit the NC State University Help Desk located in Room Hillsborough Building. Check the online Help database at: help.ncsu.edu or call 515-HELP (4357), or send e-mail to help@ncsu.edu.

McKimmon Center for Extension and Continuing Education (MCE&CE)

Web site: www.mckimmon.ncsu.edu

Alice S. Warren, Assistant Vice Chancellor for Extension, Engagement, and Economic Development

As a key component of Extension, Engagement, and Economic Development, the McKimmon Center for Extension and Continuing Education (MCE&CE) facilitates and enhances access to the academic resources of the campus by a wide range of audiences. Units within MCE&CE provide professional expertise in the identification of educational needs and the development of relevant programming in collaboration with the faculty, departments, colleges and external constituents; in the management and implementation of noncredit offerings; in the operation of a full-services, state-of-the-art conference facility; in the delivery of technical assistance and applied research; and in the evaluation and outcome assessment of programs and services delivered.

Specifically, the McKimmon Center for Extension and Continuing Education

- develops and delivers noncredit continuing education programs to meet the professional development or training needs of business/industry, governmental agencies and nonprofit organizations and communities,
- offers customized programs for diverse clients,
- stimulates interest in the development and delivery of relevant noncredit distance education offerings,
- identifies opportunities for joint initiatives and assists in measuring learning outcomes and impacts,
- provides a wide array of software-specific and certification courses for individuals and organizations,
- operates the McKimmon Conference and Training Center which is a large, flexible facility that hosts educational meetings for groups ranging in size from 5 to 1,200,
- provides opportunities for lifelong enrichment for people over the age of 50 through a robust learning-in-retirement program,
- conducts program evaluation and outcomes research, survey research, technology application and customized consulting services for federal/state/local governmental agencies and nonprofit organizations,
- performs a key role in the public schools statewide testing and accountability program,
- serves as the campus provider of Continuing Education Units (CEUs) that are earned through participation in approved noncredit courses, and
- coordinates and manages the annual Connecting-in-North Carolina (CINC) tour for faculty and key administrators to enhance the three-fold mission of our land-grant institution, and
- affords opportunities for students in collaboration with the University Honors Program and Service Learning Program

The McKimmon Conference and Training Center

Judson Hair, Executive Director

Valerie Jones, Assistant Director, Reservations and Client Relations Department

Freddie Sinclair, Assistant Director, Physical Environment and Technical Services

phone: (919) 515-2277

Web site: www.mckimmon.ncsu.edu/mckimmon

The McKimmon Center provides the meeting facilities, audiovisual equipment, and support services for adult education programs. Administrative services are available to organizations that desire assistance in planning and implementing conferences, short courses and other educational activities. Catering coordination provided by the staff is beneficial to the planning and successful implementation of banquets and related functions. The center accommodates small meeting groups and large national and international conferences. There are 15 meeting rooms (which can be divided into 20 areas) that can be arranged for any type or size audience ranging from a typical conference room to an 1100-person theatre style hall. Four rooms are dedicated as Computer Training Unit teaching labs. Downlink teleconferencing, two-way audio-video delivery, and other technical services are available in a video production room to enhance the total learning experience.

The NCSU Libraries

S. K. Nutter, Vice Provost and Director

C. D. Argentati, Assoc. Vice Provost and Donald E. Moreland Deputy Director of Libraries

The NCSU Libraries' Web site (www.lib.ncsu.edu) is a rich source of information and serves as a gateway to resources and services.

The D.H. Hill Library is open 24 hours/day in the fall and spring semesters. Branch libraries include: Burlington Textiles Library, Harrye B. Lyons Design Library, Natural Resources Library, and William Rand Kenan, Jr. Library of Veterinary Medicine.

The collection contains nearly 4 million volumes of books, bound journals, and government documents; approximately 62,000 print and electronic serials; over 5.4 million microforms; full-text databases in all disciplines and extensive digital collections; numerous video, audio, and multimedia titles; unique and rare materials in the Special Collections



Research Center. The Libraries' participation in the Triangle Research Libraries Network (TRLN) provides convenient access to the collections of Duke University, UNC-Chapel Hill, and NC Central University.

The library has approximately 270 public workstations and a full complement of equipment for audio, video, and digital resources. PC and Macintosh laptop computers, digital cameras, camcorders, GPS units, and digital audio players and recorders are available for loan.

The popular Learning Commons in D.H. Hill Library is a technology-equipped space for both individual and group work. The library offers equipment and assistance for working with digital images and other materials. The Libraries has a variety of study spaces for groups and individuals.

The Libraries' Web site (www.lib.ncsu.edu) provides information about and access to many services, including reference assistance, interlibrary loan, and electronic reserves. Library Tools web pages are available for every course offered at NC State (www.lib.ncsu.edu/course). These customized pages include e-reserves, article databases, librarian recommendations, citation tools, IM a Librarian for help, and more.

North Carolina Japan Center

J.W. Baugh, Interim Director

The North Carolina Japan Center was established in July 1980 by Governor James B. Hunt to strengthen the state's academic, economic, scientific, and cultural ties with Japan. In its many aspects, the Center serves as a focal point for interaction between Japanese and North Carolinians. It is a statewide resource intended to assist all citizens, universities, companies, and public and private institutions in relations with the Japanese. The North Carolina Japan Center works to inform people of the state about modern Japan and its people. It also provides information and resources for Japanese citizens living in North Carolina.

A unit of the University Asia Initiative in the Office of International Affairs, the Japan Center includes an Academic Advisory Committee consisting of faculty from colleges across the university who provide guidance and direction for academic exchange and development. An external Board of Advisors includes prominent citizens of North Carolina who have a strong interest in Japan and US-Japan relations. The Japan Center cooperates closely with the NC State Japanese language program and provides study abroad scholarships for summer language study and full year exchange programs in Japan. For more information, please contact John Baugh at (919) 515-3450.

Office of Professional Development

Judson Hair, Executive Director
Chip Futrell, Associate Director
Web site: www.ContinuingEducation.ncsu.edu
phone: (919) 515-2261

The Office of Professional Development (OPD) develops, promotes, and coordinates noncredit seminars, workshops, and conferences to a broad market on a wide range of topics. Program areas include: GMAT, GRE and LSAT test preparation; accounting and taxation; agriculture; communications; education; engineering; environmental; management; parks and recreation; substance abuse professional training; textiles; and general interest. Events management services are available to help both campus and non campus groups more efficiently and productively administer educational seminars, workshops, and conferences.

Office of Research and Graduate Studies

Terri Lomax, Vice Chancellor
Chris Brown, Associate Vice Chancellor for Research Development
Bill Houghteling, Director, Office of Technology Transfer
Steve Lommel, Assistant Vice Chancellor for Research and Development - Kannapolis
Duane Larick, Interim Dean of the Graduate School
Matt Peterson, Director, Federal Research Affairs
Matthew K. Ronning, Associate Vice Chancellor for Sponsored Programs and Regulatory Compliance Services
Dennis Kekas, Associate Vice Chancellor for Centennial Campus Partnerships

The Vice Chancellor for Research and Graduate Studies acts for the Chancellor and Provost in the general area of research administration for the university. The Dean of the Graduate School reports jointly to the Vice Chancellor and to the Provost. The Vice Chancellor acts as the principal liaison representative between granting agencies (federal, state, foundations, industry) and the university; assists faculty, department heads, and deans in identifying support for research programs, preparing and processing proposals, negotiating contracts, grants and cooperative agreements and developing intercollegiate and interinstitutional research programs and projects including Centennial Campus; manages the technology transfer activities of the university, administers the allocation of faculty research development funds; manages university compliance of state and federal laws, and policies; advises the Provost and Chancellor on the coordination of intercollegiate and interinstitutional research programs and facilities; and provides general information on all grant and contract activities.

University Advancement

Nevin E. Kessler, Vice Chancellor for University Advancement

North Carolina State University

The Office of University Advancement at NC State strives enhance the perception of and knowledge about the university's programs and accomplishments; to provide alumni, students, and friends with programs and services that instill loyalty and pride; to secure resources which will enhance the academic quality of the institution; to be good stewards of its endowments and advance the growth of investment at NC State; to promote advocacy of the university and to effectively integrate advancement efforts across the university's division, colleges, programs and affiliated foundations. The office oversees a division that includes development, alumni relations, public affairs, advancement services and finance and administration. Visit the University Advancement Web site at www.ncsu.edu/univ_relations/univadv.html.

Advancement Services supports the operation of Alumni Relations, University Development, Public Affairs, and other units involved with the external mission of NC State by managing the donor/alumni database, conducting donor research, processing and receipting private gifts, managing the donor prospect tracking system, providing donor stewardship, and organizing stewardship/recognition activities.

The NC State Alumni Association engages alumni through programs and services that foster pride and enhance lifelong connections to NC State. We want alumni to be Red and White for Life — with connections to the university and fellow alumni no matter where they live. We link alumni to the university through membership, a statewide and national network of alumni, programming for special-interest groups and students, events and an array of communication tools, including the award-winning alumni magazine. The Alumni Association offers membership options and benefits for alumni and students who join. We support a growing student alumni association, STAT — Students Today Alumni Tomorrow — with events and programming that builds connections and enhances their student experience. The association also sustains the prestigious Caldwell Fellows Scholarship Program, funded by alumni contributions and designed to foster academic excellence, leadership, personal growth and service learning. We uphold campus traditions, such as the official class ring, Homecoming, Founders' Day, Legacy Luncheon, the Evening of Stars Gala to celebrate NC State's distinguished alumni and the Faculty Awards to recognize the achievements of the university's faculty. We offer services such as alumni travel, apparel, the NC State credit card and insurance. Students and alumni can visit the Alumni Association in the Dorothy and Roy Park Alumni Center on Centennial Campus. To contact the Alumni Association, call (919) 515-3375 or (800) 627-2586. For a complete overview of programs, services and events, visit www.alumni.ncsu.edu. To book space in the Park Alumni Center for events, contact Wendy Dorman at the State Club at wendy@thestateclub.org.

University Development works with the colleges and programs at North Carolina State University to secure private financial support for priority projects and programs. This support may come from individuals (alumni, parents, students, faculty, staff, and friends), corporations, philanthropic foundations and other organizations.

University Development provides services to the colleges and programs in capital campaigns, gift planning, corporate, and foundation relations and annual giving. University Development also facilitates external and internal communication among fundraisers, and coordinates approaches to prospective donors.

The Office of Public Affairs provides research-based public relations and marketing planning and implementation for the university, assisting and supporting the efforts of individual colleges. The goal of the unit is to build long-term relationships with key publics to strengthen the university's identity and brand image.

Public Affairs includes the offices of News Services, Creative Services and Web Communications. News Services promotes the university's achievements via various communication efforts, news releases, and the Web. Creative Services provides publications and design as well as video production for campus units. Web Communications assists in optimizing the use of electronic communications and oversees the university's core Web presence. Public Affairs also is responsible for coordinating community relations, providing marketing support for fund-raising efforts, assisting with staging special events for University Advancement and the Chancellor's Office, and working closely with the Chancellor's Office on external affairs projects.

MUSIC DEPARTMENT

Price Music Center
Campus Box 7311
Raleigh, NC 27695-7311
phone: (919) 515-2981
fax: (919) 515-4204
www.ncsu.edu/music/
e-mail: musicinfo@ncsu.edu

J. M. Scarce, Director
R. M. Foy, Associate Director
J. A. Fuller, Assistant Director, Outreach and Assessment

Teaching Professors: J.M. Scarce, R.M. Foy, J.C. Kramer; Teaching Associate Professors: J.A. Fuller, P.D. Garcia;
Teaching Assistant Professors: O. Kleiankina, T. Koch, N.J. Leaf, J. Parker; Adjuncts: R. Waschka, A. Arnold, R. Petters, J. Sprague, K. Turner. P. Vogel

The Music Department is committed to providing broad-based educational opportunities for NC State students through a variety of musical experiences and introductory and upper-level academic courses. Departmental faculty seek to assist students in developing musical insights, musical skills, and the capacity to perceive and respond to music in its historical and cultural contexts.

Opportunities for direct student participation as performers include many choral and instrumental organizations. Membership in any ensemble is open to students with a disciplined interest in music. Auditions are scheduled during summer orientation, at the beginning of each semester, and by appointment with the conductor of the group. For further information, please call the Music Department at (919) 515-2981.

The department offers a variety of courses, most of which may be taken to fulfill specific general education requirements. Any course may be taken as a free elective. An eighteen-hour music minor is offered for qualified undergraduate students who wish to engage in the serious study of music. Emphases include history/literature, theory/composition, and performance— piano, vocal, or instrumental.

The department also serves as a cultural resource for the university community and the public at large through concerts presented by student musical organizations, music faculty, and visiting artists. Concerts are open to students and the public. (Also see Arts NC State pg 45).

Music

The Music Department offers an 18-hour minor in Music for qualified undergraduate students who wish to engage in the serious study of music within a curricular framework. This minor is designed to foster creative thought, aesthetic understanding, and artistic self-expression. Students may choose one of three emphases: Theory-Composition, History-Literature, Performance. Core courses include one music theory course and a two-semester survey of music in Western Civilization. Applications are available in Price Music Center, Room 203. A Bachelor or Arts degree with a focus in Music is available through the Arts Studies Program in the College of Humanities and Social Sciences.

DEPARTMENT OF PHYSICAL EDUCATION

Carmichael Gymnasium, Room 2000

Tom Roberts, Professor & Head

Professors: M.L. Krotee; T.C. Roberts; Associate Professors: S.V. Almekinders, H.L. Brown, J.L. DeWitt, T.W. Evans, G.W. Pollard, R.R. Smith; Assistant Professors: G.T. Holden, D.P. Williamson; Lecturers: R.N. Bechtolt, J.A. Kagendo-Charles, K. Clark, D.A. Conner, W. Dang, T.S. Dash, D. DeReu, P.S. Domingue, J. Horne, T.D. Jones, R.H. Kidd, M.R. Lester, K.K. Lewis, A. Montcalm, C.S. Ousley, P.N. Powers, M.S. Rever, L.E. Scott, R. Shuford, E.V. Smith, A. Tharrington, T.C. Winslow, G.R. Youtt; Part-time Lecturers: C. Austin, J. Barker, J. Fagg, R. Harris, M.A. Stevenson, M.A. Turnbull

All North Carolina State University students are required to complete two semesters of physical education to meet the university General Education Requirement (GER). Students must take a Physical Education 100-level course in Fitness and Wellness and one additional Physical Education activity course.

Students may choose a class that offers a familiar skill, or may opt to experience a new activity. Students with disabling conditions will be assisted by the Department of Physical Education, Student Health Service, and Disability Services for Students to choose appropriate classes. Only “activity” courses, not elective “theory” courses, may be used to satisfy the NC State GER physical education requirement.

Minor in Fitness Leadership

The Department of Physical Education offers a 17-hour minor in Fitness Leadership. The minor is designed to prepare students for fitness leadership responsibilities. The minor provides course work in anatomy, physiology, nutrition, and biomechanical principles; prevention and treatment of athletic injuries; development and evaluation of fitness programs. The minor also provides an opportunity to apply theory into practice through a practicum. For additional information, contact Nita Horne (919) 515-6382.

Minor in Outdoor Leadership

The Department of Physical Education offers a 17-hour minor in Outdoor Leadership that is designed for undergraduate students desiring to pursue careers as outdoor leaders of adventure-based programs or for those who wish to enhance their personal development and enjoyment. Students will develop a foundation of essential leadership skills and experience through course work focusing on outdoor skills and leadership training. Students will also have an opportunity to apply theory to practice through a practicum. For additional information, contact Terry Dash (919) 515-1392 or Dr. Tommy Holden (919) 515-6869.

Minor in Coaching Education

The Department of Physical Education offers a 17-hour Minor in Coaching Education designed to prepare students to assume coaching responsibilities with a sound theoretical and practical background. The minor provides students with a foundation of essential coaching skills and concepts as well as the basic principles of coaching philosophy, sport psychology, sport management, and prevention and care of sport related injury. The practical application of sport science, physiology, and kinesiology, as well as strategies involved in coaching specific sports, are also addressed. For additional information, contact Dr. Debra Williamson, (919) 513-6384.

Minor in Health

The Department of Physical Education offers a 16-hour minor in Health which is designed for undergraduate students wishing to pursue careers in health-related professions and for students wishing to gain in-depth knowledge in various contemporary health-related topics for their personal development. The minor provides students with theories, concepts, and practical skills concerning health behavior and includes a practicum to apply theory to practice. For additional information, contact Christopher Ousely (919) 515-6868.

MILITARY SCIENCES

DEPARTMENT OF AEROSPACE STUDIES (AIR FORCE ROTC)

Lieutenant Colonel Christopher Froeschner, Professor of Aerospace Science

Instructors: Lieutenant Colonel Christopher Froeschner, Captain Susan Keely, Captain Timothy Peedin, Captain Nathan Zahn and other active duty officers from diverse professional backgrounds that enrich the learning environment.

AFROTC Program

NCSU students can try out AFROTC with no obligation or commitment if they enroll in the AS 100 or AS 200 courses. These first two years in the AFROTC program are called the General Military Course (GMC). Typically students enter the program throughout their freshman and sophomore years. All students must be attending college in “full time” status.

The four-year program allows freshmen to enroll in Aerospace Studies courses in the same manner as other college courses for the first two years. Students take these courses as free electives and incur no military obligation unless they are receiving an AFROTC scholarship.

The compressed program is available to those who do not take the first two years of Air Force ROTC. Interested students must contact the Professor of Aerospace Studies early in the first semester of their sophomore year. Accepted students will attend a five-week (versus the standard four-week) summer field training encampment. The last two years of AFROTC comprise the Professional Officer Course (POC).

Students at every level have numerous opportunities to further their knowledge of the Air Force, as well as their leadership. A variety of programs during the summer allow students to visit bases or participate in programs such as the US Air Force Academy Free Fall program, manned glider training, combat survival, and numerous other activities. POC students have similar opportunities, focusing primarily, however, on programs related to the cadet’s desired active duty career area, both in the U.S. and abroad. Throughout the school year, cadets have opportunities to examine all aspects of life in the Air Force and gain leadership experience through Air Force base visits, flying opportunities, and social activities.

Upon graduation and satisfactory completion of the POC, the student is commissioned a second lieutenant in the USAF and is obligated to serve a minimum of four years on active duty.

All students who complete the academic program of study with a minimum of 15 hours in military studies are eligible to receive a Military Studies minor.

Financial Aid

Students enrolled in the program are encouraged to apply for Air Force ROTC scholarships. Scholarships pay for tuition, fees, books, and provide students a stipend each month during the academic year for miscellaneous expenses. Stipends vary according to the student’s year of academic enrollment in AFROTC. For example, freshmen currently receive \$300 per month, sophomores \$350 per month, juniors \$450 per month, and seniors \$500 per month. Scholarships are awarded by the Air Force based primarily on college academic achievement. All scholarships have minimum academic standards that must be maintained. Students in the GMC, other than scholarship students, receive no monetary allowance. Special scholarships are awarded to fill critically needed academic majors within the Air Force. Currently, the Electrical Engineering, Computer Engineering, and Environmental Engineering students who meet minimum grade point average and physical standards qualify for these scholarships.

Curriculum

The AFROTC educational program provides professional preparation for future Air Force officers. Courses in the first two years (GMC) focus on Air Force missions and organization, other military services, and the history of airpower. The focus in the last two years (POC) is on leadership and management and in-depth examination of national security, American defense strategy, and the methods for managing conflict. A progressive development of communicative skills, oral and written, is integrated into each course. Officership is developed through lessons taught in the classroom environment and then applied in the associated leadership laboratory. In addition, traditional military social functions, base orientation trips, and cadet-centered programs further enhance student understanding of the USAF.

Eligibility

All full-time freshmen and sophomores may enroll in the GMC without obligation to the Air Force through enrollment in the AS 100 and AS 200 blocks of Aerospace Studies curriculum. To enter the POC, students must pass an Air Force Officer Qualifications Test, meet physical and academic requirements, and be selected by the Professor of Aerospace Studies/Air Force ROTC headquarters and successfully complete field training typically between your second and third year. In addition, some age restrictions apply; contact



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the department for more details. Students desiring to enter the four-year program simply register for the freshmen Aerospace Studies course. All students should contact the ROTC office on campus in room 133 Reynolds Coliseum, (919) 515-2417; or write to: Professor of Aerospace Studies, NC State, Box 7308, Raleigh, NC 27695-7308.

Organization

The AFROTC Corps, nicknamed “Wolfpack Warriors,” is organized as a cadet wing staffed entirely by cadets for leadership development. They are assisted and advised by the instructors. Two collateral organizations, Arnold Air Society and Honor Guard, support the wing organization as well as the university.

Uniforms

Uniforms are provided by the federal government and are worn on the day of Class Leadership and Laboratory or as specified by the cadet corp leadership.

View the NC State Air Force ROTC Web site at the following address: www.ncsu.edu/afrotc.

DEPARTMENT OF MILITARY SCIENCE (ARMY ROTC)

Lieutenant Colonel Ken Ratashak, Professor of Military (PMS)

Instructors: Major Matthew Devivo, Major Dennis Connor, Major Bill Medley, Captain Patrick Preston, Captain Howard Gwin, Captain Lealand Pearson, Master Sergeant Samuel Carlson, Master Sergeant Michael Matheney, Master Sergeant Jose Ramos, Sergeant First Class Matthew Higgins

Mission

The mission of the Army ROTC Program is to train college men and women to become commissioned officers in sufficient numbers to meet Active Army, Army Reserve and National Guard requirements.

Program of Instruction

The Army ROTC program consists of a voluntary Basic Course (freshmen and sophomore level) and a two-year Advanced Course (junior and senior level) that includes a six-week Leadership Development Assessment Course in the summer prior to the senior year. One may enter the Advanced Course without participating in the Basic Course by any of the following methods:

Simultaneous Membership Program (SMP): Members of Reserve or National Guard units may take advantage of this program and, if accepted, enroll directly into the Advanced Course. SMP participants will be assigned to a unit near NC State or home for part-time monthly officer training and will receive the ROTC Advanced Course subsistence payment of \$450 per month for Juniors and \$500 for Seniors, plus approximately \$200 per month for the one weekend of Reserve or Guard training. In addition, two weeks of Annual Training will be required for which the individual will receive full pay.

Prior Service: Service veterans are eligible for placement into the Advanced Course.

Leader’s Training Course (LTC): Successful completion of the four-week basic summer camp, held at Ft. Knox, Kentucky is an alternative to the Basic Course. Students with strong academic credentials may receive a scholarship after completing this course.

Transfer Credit: Students entering as transfer students from other institutions may receive credit for work completed at other Senior ROTC units.

Junior ROTC: Students who have participated in a Junior ROTC in high school may receive placement credit as determined by the Professor of Military Science.

Eligibility

All full-time freshmen and sophomores may enroll in any Military Science Basic Course offering without obligation to the Army. To be eligible for participation in the Advanced Course, applicants must be in good academic standing and demonstrate satisfactory performance in the Basic Course. Additionally, applicants for commissioning must be able to be commissioned by their 30th birthday. An age waiver may be obtained as long as the individual will be commissioned prior to his/her 32nd birthday. A student must have a minimum of two years remaining as a full-time student at either the undergraduate or graduate level.

Professional Military Education

There are five Professional Military Education (PME) courses which must be taken or have an approval of a waiver obtained for them. All but one content area (Military History) are automatically met by completion of the university's General Education Distribution Requirements. PME requirements must be completed or waived prior to commissioning.

Delays for Graduate Study

Qualified ROTC graduates may delay their entry into active service in order to obtain advanced academic degrees. Fellowships for advanced academic study are available to selected ROTC graduates, allowing up to two years of graduate study while receiving full pay and allowances plus payment for tuition, all fees, textbooks, and required supplies.

Financial Aid

Army scholarships of two to four years which pay for tuition, all fees and textbooks are available on a competitive basis to students who are strongly motivated and academically qualified. Students in the Advanced Course who are preparing for commissioning receive a subsistence allowance of \$450 per month for Juniors and \$500 per month for Seniors (tax free) up to a maximum of \$4500. All Advanced Course cadets are paid approximately one-half the basic pay of a second lieutenant while attending the six-week Advanced Camp, plus travel allowances to and from camp.

Service Opportunities

Scholarship recipients may serve four years active duty upon commissioning or eight years in the United States Army Reserve or National Guard. Service consists of one weekend drill per month and two weeks annual training.

Program Features

Army ROTC classes are unique, offering instruction and a practical, working knowledge of leadership. Students are challenged early in the ROTC training to enable them to develop sound judgment, the desire to achieve, acceptance of responsibility, personal confidence, and to learn the principles of personnel management. The primary vehicle for this training during the academic year is Leadership Laboratory, where cadet officers and non-commissioned officers conduct instruction under the supervision of the Department of Military Science's faculty. The intensive summer Leadership Development Assessment Course is extremely effective in developing an individual emotionally, mentally and physically. All Army ROTC training is focused on preparing the student to meet the challenges of tomorrow's society, whether in a military or civilian career.

Distinguished Military Students

The university names outstanding Army ROTC students as Distinguished Military Graduates.

Uniforms

Uniforms for ROTC are provided by the federal government.

Departmental Offices

Our Administrative Office is located in Room 145 Reynolds Coliseum.

DEPARTMENT OF NAVAL SCIENCE (NAVAL ROTC)

Captain Stephen Matts, Professor of Naval Science

Associate Professor: LtCol Timothy Nichols USMC; Instructors: LT Matt Burich, LT Kyle McKay, LT Josh Robertson, LT Jacob Joubert, Maj Todd Gillingham USMC

Mission

The purpose of the Department of Naval Science is to develop midshipmen and enlisted "officer candidates" mentally, morally, and physically and to imbue them with the highest ideals of duty, honor, and loyalty in order to commission college graduates as Navy and Marine officers who possess a basic professional background, are motivated toward careers in the naval services, and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship, and government.

4-year NROTC Program

There are basically two NROTC programs leading to a commission as a Navy or Marine Officer upon graduation: the Scholarship Program and the College Program.

Scholarship Program: The Scholarship Program leads to a commission in the Navy or Marine Corps. For students who receive a Navy/Marine Corps scholarship, the Navy will pay tuition and fees, provide a \$375 book allowance each semester, supply uniforms, and pay a monthly tax-free subsistence allowance (currently \$250 to \$400 on a graduated scale; refer to <https://www.nrotc.navy.mil> for updates), to help defray the cost of normal board at the university. During the summers between school years scholarship students will receive 4-6 weeks of at-sea training conducted on ships, submarines, and air

of the Navy's first line force. Upon graduation and commissioning, scholarship students are obligated to serve a minimum of four years on active duty.

College Program: For those students who are interested in a commission and do not desire a scholarship, or for those who are seeking an opportunity to qualify for a scholarship after entering NC State, the College Program is available. Selection for the College Program is made from students already enrolled at NC State, with applications being accepted and considered by the staff of the NROTC unit. Students enrolled in the College Program are provided uniforms and Naval Science textbooks. College Program students compete for selection to continue NROTC in Advanced Standing at the end of their sophomore year. Selection is based on academic and demonstrated professional performance. Those selected for Advanced Standing receive a monthly subsistence allowance during the final two years of the program (refer to <https://www.nrotc.navy.mil> for amounts). College Program midshipmen receive a single summer training cruise between the junior and senior year. Except for administrative differences, no distinction is made between the Scholarship and College Program midshipmen. The minimum active duty commitment following graduation for a College Program Student is three years.

Students in the College Program are eligible to compete for scholarships at regular intervals.

Two-Year Programs

The Two-Year Programs offer an opportunity to participate in NROTC in the final two years of University study. Both Scholarship and College Programs exist, offering the same advantages to the student having two years of college remaining as the respective four-year programs.

Applications for this program must be completed by March 15 prior to the starting year. Upon selection, the candidate attends a six-week training course at Newport, Rhode Island, during the summer between the sophomore and junior years so that he or she may receive instruction in the Naval Science subjects normally covered in the first two years at the university. Participants in this training course receive uniforms, room and board, and officer candidate pay during the period and, upon satisfactory completion of training, enter the NROTC program as third year students. The application process can be time consuming. In order to meet the March 15 deadline, students are encouraged to contact the Department of Naval Science before December 1 of their sophomore year.

The Marine Option

A limited number of quotas are available for students who wish to enter either of NROTC programs as designated Marine Officer candidates. Undesignated midshipmen who wish to pursue a Marine Corps commission are encouraged to make this selection during their sophomore year, as some modifications to the curriculum and the final summer training period may result. Change of option selection boards are held on a biannual basis. Those interested or contemplating a commission in the Marine Corps should contact the Marine Officer Instructor.

Curriculum

Due to the increasingly advanced technologies being employed by the Navy and Marine Corps, candidates for Navy Commissions are encouraged to select academic majors in mathematics, engineering, or scientific disciplines. However, each student in the NROTC program is free to choose his or her area of major study.

The NROTC training program emphasizes academics, leadership, military organization, and physical fitness. Required Naval Science courses are fully accredited, taken for free elective credit and include Introduction to Naval Science, Naval History, Leadership and Management, Navigation, Naval Engineering, Naval Weapons Systems, Naval Operations, and Leadership Ethics. Marine Option midshipmen substitute Evolution of Warfare and Amphibious Warfare for selected courses. Additional University courses may be required depending upon one's major, however, all Navy option scholarship midshipmen must complete one year of calculus and physics. In addition to the courses taken for University credit, midshipmen will attend leadership laboratory and physical training each week. At the completion of the four-year period students will have earned enough credit to apply for a minor in Naval Science.

Midshipmen Life

Academic excellence is emphasized and commensurate participation in the full range of campus extra curricular activities is encouraged. The NROTC unit is organized as a midshipmen battalion to facilitate leadership development. The battalion is staffed entirely by midshipmen under the supervision of staff instructors. Additionally, midshipmen have opportunities to examine all aspects of life in the Navy and Marine Corps and gain leadership experience through field trips, summer cruise, sail training, and social activities. Further information regarding application for and admission into the NC State Naval ROTC may be obtained on campus in Room 186 Reynolds Coliseum or by writing to the Professor of Naval Science, Box 7310, NC State, Raleigh, North Carolina 27695-7310 or by calling Mr. Jimmy Ledbetter at (919) 515-8931.

The Department of Military Science (Army ROTC), the Department of Aerospace Studies (Air Force ROTC), and the Department of Naval Science (Naval ROTC) are separate academic and administrative subdivisions of the institution. Students in the ROTC programs will receive free elective credit for Aerospace Studies (AS), Military Studies (MS), or Naval Science (NS) courses up to the limit of free electives in their curriculum.