COMMITTEE: University Curriculum Committee

MEETING DATE: February 10, 2011

PERSON PRESIDING: Jonathan Reid

REGULAR MEMBERS IN ATTENDANCE: Kanchan Das, Donna Kain, Janice Neil, Jonathan Reid, Paul Schwager, and Ralph Scott

EX-OFFICIO MEMBERS IN ATTENDANCE: Derek Alderman, Kenneth Blair Jr., Linner Griffin, Gregory Lapicki, and Carolyn Willis

EXCUSED: Ron Graziani

ABSENT: None

SUPPORT: Kimberly Nicholson

OTHERS IN ATTENDANCE:
- College of Fine Arts and Communication: Jill Carlson, Hector Garza, Kris Kirschbaum, Eric Shouse, and Deborah Thomson
- College of Health and Human Performance: Sloane Burke and Mike Felts
- College of Technology and Computer Science: Phil Lunsford and Leslie Pagliari
- Honors College: Kevin Baxter, Dick Eakin, and Marsha Ironsmith
- Thomas Harriot College of Arts and Sciences: Tom Crawford, Mary Farwell, Kyle Summers, Edmund Stellwag, and Jerry Weitz

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ACTIONS OF MEETING

Agenda Item: II. Old Business

(1.) The 01-13-11 UCC minutes were approved electronically and forwarded to the Faculty Senate.

Discussion: None.

Action Taken: None.

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Agenda Item: III. College of Fine Arts and Communication, School of Communication

(1.) Proposal of New Course: COMM 3190
**Discussion:** Undergrad level of health communication—don’t have an undergrad class in health communication. They are the only school that offers at the grad level but they don’t offer at the undergrad level. The course has been taught at the undergrad level as a special topic and the faculty wishes to formalize the course.

- **Item 4:** Add to future delivery methods. Future—face-to-face and online will be checked. (In revision submission unit changed future delivery to online only.)
- **Item 6:** In the course description, strike “May not count toward foundations curriculum social sciences requirement” and “as a component of multiple systems. Importance of health” in the proposal and in the catalog.
- **Item 11:** put the total credit hours in the far column. Total credit hours—3 in the bottom box.
- **Item 13:** Affected degrees or programs. Janice asked about notifying the health education and promotions major in health and human performance. Maybe let English know as well. Representatives from Communication indicated that they will notify these programs and include the responses in the materials they resubmit.
- **Item 18:**
  - Make the description consistent with changes above.
  - Paragraph under “Learning Objectives”: take out the first instance of “the”
  - In description of “Letter of thanks,” replace “somehow certified” with “signed letter on official letter head.”
  - Adjust grading scale to be correct.
  - Remove “Week 16.” The suggestion from the committee is to change designation of “weeks” to “topics.”
- Change catalog copy consistent with changes to course description noted above.

**Action Taken:** Janice Neil moved to approve as amended. Paul Schwager seconded. Motion passed.

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**Agenda Item:** IV. College of Fine Arts and Communication, School of Theatre and Dance

(1.) Proposal of New Courses: THEA 2501, 3604

**Discussion:** These courses will expose students to drama outside of the major cannon. They focus on Latino/a and Chicano culture and deal with the hybrid cultures and the drama they are creating in the U.S.

a. THEA 2501
   - **Item 4:** Check future delivery method(s).
   - **Item 5:** Add to the justification that the faculty determined these courses are needed.
- Item 6: Remove semester designations. Replace the word “hegemonic” with the word “dominant.”
- Item 9: Fill in the box “N/A.”
- Item 11: Fill in the total credit hours “3.”
- Item 13: Notify affected units including English and foreign language. Provide documentation about contact when resubmitting packages.
- Item 14: Complete the item.
- Item 15: Complete the item.
- Item 18:
  - Add “Extended” to the heading “Course Description.”
  - Under objectives, add “Upon completion of this course,” to the lead line. Change “Develop” to “Demonstrate.”
  - Add ISBN numbers for readings; use MLA (or other format) to include information about readings.
  - Under grading, change item two to read “up to 50 points.”
  - Remove the designation of days (Tuesday/Thursday) from schedule.
- Change catalog copy consistent with changes to course description noted above.
- Make sure to get the original UCC signature form to Committee Chair Reid.

b. THEA 3604
- Item 4: Check future delivery method(s).
- Item 5: Add to the justification that the faculty determined these courses are needed.
- Item 6: Remove semester designations.
- Item 11: Fill in the total credit hours “3.”
- Item 13: Notify affected units including English, foreign language, political science, social work, and sociology. Provide documentation about contact when resubmitting packages.
- Item 14: Complete the item.
- Item 15: Complete the item.
- Item 18:
  - Take out reference to days and times under the title.
  - Above objectives, add “Upon completion of this course, students will be able to:” as a lead line.
  - Reformatted objectives to bullets beginning with the verb.
  - Add ISBN numbers for required texts.
  - Remove designation of days (Tuesday/Thursday) from schedule.
  - Remove week 16 or change “week” to “unit” or “topic.”
- Change catalog copy consistent with changes to course description noted above.
- Make sure to get the original UCC signature form to Committee Chair Reid.

Action Taken: Ralph Scott moved to approve as amended. Linner Griffin seconded. Motion passed.
**Agenda Item:** V. Honors College

(1.) Proposal of New Courses: HNRS 3001, 3002, 3003

**Discussion:** This course was brought to the committee previously and tabled for revisions. The current model of the course is designed to give students and faculty the flexibility they need to design the curriculum in the Honors College. George Bailey helped with the revision of the proposal, which was approved by the Honors College faculty advisory committee. Jonathan asked about the efficacy of the one-on-one for 100+ honors students. Dr. Ironsmith suggests that the course plans can be used in either the larger class or as a one-on-one directed reading.

- Item 18:
  - Remove “The topic area and the specific issue to be addressed are determined by joint agreement of student and instructor with the approval of the Honors College.”
  - Revised next line to read “Topics and issues may be chosen from any disciplinary or interdisciplinary area upon the approval of the Honors College.”
  - Under objectives, revise bullet point 2 to “Demonstrate appropriate mastery” and bullet point 3 to “Apply.”
  - In the catalog copy, remove the prefix before the course numbers.

**Action Taken:** Janice Neil moved to approve as amended. Derek Alderman seconded. Motion passed.

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**Agenda Item:** VI. Thomas Harriot College of Arts and Sciences, Department of Biology

(1.) Proposal of New Courses: BIOL 3820; 4740, 4741; 4991, 4992, 4993

**Discussion:** BIOL 3820 was a well-received special topics course that the faculty has determined should be formalized to a regular course. BIOL 4740, 4741 was offered as a 5000-level course. The faculty has determined it would better serve students as a 4000-level course. Linner brought up the idea of changing catalog copy for the program descriptions so that the new course and the changes are showing up in optimal places.

- **BIOL 3820**
  - Item 4: Check future delivery method box.
  - Item 6: Delete semester designation.
  - Make sure the course descriptions in the proposal and the catalog match.

- **BIOL 4740, 4741**
  - Item 4: Check future delivery method box.
  - Item 6: Delete semester designation.
  - Item 18: In lead line to objectives, add “be able to.” In objective 4, change “gain” to “demonstrate.” In objective 6, remove “Enhance their ability to.”
  - Make sure the course descriptions in the proposal and the catalog match.
c. BIOL 4991, 4992, 4993
   These are internships needed for students’ internship experience.
   - Item 1: Fix the course numbers—should be 4991, 4992, 4993.
   - Item 6: Remove the word “direct” so that it reads “under the supervision of.”
     After “May be repeated by permission, add “to a maximum of 6 sh. Students
     must earn a C or better for the course to count toward BIOL electives.”
   - Item 18:
     o Under “Course Objectives,” add “Upon completion of this course” to the
       beginning of the lead line.
     o In bullet 4, change “his” to “their.”
     o Add a grading scale.
   - Make sure catalog copy reflects changes in the course description.

   Action Taken: Linner Griffin moved to approve as amended. Janice Neil seconded. Motion
   passed.

(2.) Unbanking, Renumbering, and Revision of Existing Course: BIOL 2260 (to 3260)

   Discussion: BIOL 3260 is an unbanking and renumbering of BIOL 2260. The course is
   needed as a first course in cell biology.
   - Item 4: Check future delivery method box.
   - Item 18:
     o In the second objective, remove the word “in.”
   - Make sure the course descriptions in the proposal and the catalog match.

   Action Taken: Linner Griffin moved to approve as amended. Janice Neil seconded. Motion
   passed.

(3.) Prerequisite Revision of Existing Courses: BIOL 2110, 2111; 2140, 2150

   Discussion: There are prerequisite changes. One issue is an increase in GPA which will
   limit the number of students that will be eligible to get into these classes. With the demand
   for the program and the limited space, one solution is to increase the minimum GPA
   required, which will also result in better-prepared students. There are provisions for
   considering students with lower GPAs.

   Action Taken: Linner Griffin moved to approve. Janice Neil seconded. Motion passed.

(4.) Deletion of Existing Banked Course: BIOL 2261

   Discussion: This course was a lab for BIOL 2260 that will no longer be required.
   - Turn deleted text red.
Action Taken: Linner Griffin moved to approve. Janice Neil seconded. Motion passed.

Agenda Item: VII. Thomas Harriot College of Arts and Sciences, Department of Geography

(1.) Proposal of New Course: PLAN 4305

Discussion: This undergrad course focuses on ecological planning and the faculty believe it would complement a grad course already in place.
- Item 6: Remove “Applied analysis of physical and social attributes, landscape suitability, and alternative scenarios.”
- Item 18:
  - Change course description to match change above.
- Make sure catalog copy includes description change.

Action Taken: Janice Neil moved to approve as amended; Paul Schwager seconded. Motion passed.

(2.) Revision of Existing Degrees: BA in Geography, BS in Applied Geography, BS in Applied Atmospheric Science, BS in Geographic Information Science and Technology, BS in Urban and Regional Planning

Discussion: In reviewing the catalog for their programs, the faculty identified a number of courses that needed to be added to the programs. These changes would increase the number of courses available to students in these programs but would not change the overall program requirements. One of the requested changes is to the required GPA for one course.

Action Taken: Janice Neil moved to approve; Paul Schwager seconded. Motion passed.

(3.) Deletion of Existing Certificate: Certificate in Urban Design

Discussion: The faculty see this certificate as “one faculty member’s brainchild.” No current faculty can provide guidance for the certificate and the faculty has other priorities. The committee indicated that EPPC needs to see this change and it needs to be approved before it can be removed from the catalog and the academic program inventory.

Action Taken: Janice Neil moved to approve; Paul Schwager seconded. Motion passed.

Agenda Item: VIII. College of Health and Human Performance, Department of Recreation and Leisure Studies
(1.) Proposal of New Courses: HLTH 3002, 3050, 4609, 4880

Discussion: The faculty request adding these courses to align offering more with the field. They are updating and some courses haven’t been looked at for several years. The faculty believes that these changes will better meet with requirements of accrediting body

a. HLTH 3002
   - Item 18:
     ○ Add “Extended” to the heading “Course Description.”

b. HLTH 4609
   - Item 6: Remove MATH 1500; remove all but the first HLTH prefix from the list of those prereqs and fix punctuation.
   - Make sure catalog copy includes description change.

c. HLTH 4880
   - Item 6: Remove MATH 1500; remove all but the first HLTH prefix from the list of those prereqs and fix punctuation.
   - Item 18:
     ○ Above the course objectives, add “Upon completion of this course, students will be able to:”
   - Make sure catalog copy includes description change.

d. Make sure to get the original UCC signature form to Committee Chair Reid.

Action Taken: Paul Schwager moved to approve as amended; Janice Neil seconded. Motion passed.

(2.) Revision of Existing Course(s): HLTH 2000, 4611

Discussion: These are title, description, and outcome changes that better align with the foci of the courses.

- Make sure to get the original UCC signature form to Committee Chair Reid.

Action Taken: Paul Schwager moved to approve as amended; Janice Neil seconded Motion passed.

(3.) Revision or Deletion of Existing Degree: BS in Health Education and Promotion

Discussion: These changes are a faculty response to a program review and current trends in the field of public health and accreditation requirements of the Council on Education in Public Health (CEPH).

- Make sure to get the original UCC signature form to Committee Chair Reid.
Action Taken: Paul Schwager moved to approve; Janice Neil seconded. Motion passed.

(4.) Revision of Existing Minor: Worksite Health Promotion Minor

Discussion: These changes are a faculty response to a program review and current trends in the field of public health and accreditation requirements of the Council on Education in Public Health (CEPH).

- Make sure to get the original UCC signature form to Committee Chair Reid.

Action Taken: Paul Schwager moved to approve; Janice Neil seconded. Motion passed.

Agenda Item: IX. College of Technology and Computer Science, Department of Technology Systems

(1.) Proposal of New Courses: ICTN 4402, 4404, 4406, 4408

Discussion: These courses had been brought to UCC previously and tabled for revision. The courses are special topics that the faculty have determined they need to cover issues in new technologies of which students should be current. They are variable credit, variable topic courses. As per the request of the UCC, the description of the courses by numbers of credits (1,2,3,4) have been revised.

- Item 18:
  - Under course topics, change “Topics covered in this course include” to “Potential topics could include”

Action Taken: Paul Schwager moved to approve; Janice Neil seconded. Motion passed.

Agenda Item: X. College of Nursing

(1.) Deletion of Existing Courses Previously Deleted from Graduate Catalog: NURS 5000, 5025, 5327, 5900

Discussion: These courses have not been taught for years and are being deleted.

Action Taken: Paul Schwager moved to approve; Donna Kain seconded. Motion passed.

(2.) Deletion of Existing Banked Courses: NURS 3050; 3205; 3250, 3251; 3900; 3901; 4050

Discussion: These courses have not been taught for years and are being deleted.
Action Taken: Paul Schwager moved to approve; Donna Kain seconded. Motion passed.

(3.) Deletion of Existing Banked Courses Previously Deleted from Graduate Catalog: NURS 5460, 5461

Discussion: These courses have not been taught for years and are being deleted.

Action Taken: Paul Schwager moved to approve; Donna Kain seconded. Motion passed.

Agenda Item: XI. New Business

(1.) Discussion of Periodic Guidance Notices to ECU Official

Discussion: We need to be in contact with the liaisons. Jonathan suggested drafting an e-mail to the Deans and liaisons to note that we are seeing proposals that are not properly or completely filled out. What do we need to do to create some policing? The Senate has not required people to meet or work with the liaisons. It was also suggested to add something to the Web site stating that incomplete packages will be returned and to please check all boxes and items on the form. These are administrative tasks that can be done fairly easily. We will talk at a subsequent meeting about more actions we can take to work on the problem.

Action Taken: None.

(2.) Role of UCC Liaisons

Discussion: Liaison training takes place in the fall. Jonathan will be in contact with the liaisons prior to that time.

Action Taken: None.

(3.) Removal of Foundations Curriculum Credit

Discussion: For information: Faculty Senate Resolution #10-91 outlines the procedures for removing foundations curriculum credit. This would involve catalog copy changes, but not direct action of the UCC.

Action Taken: None.
(4.) Advanced Curriculum Development Workshop

Discussion: Linner Griffin let the committee know that an advanced Curriculum Development Workshop has been scheduled for 03-18-11.

Action Taken: None.

NEXT MEETING: February 24, 2011

March 18 will be the advanced workshop. For UCC. Topics—certificate, concentrations, etc.

ITEMS TO BE DISCUSSED: Agenda will be posted.

Meeting adjourned at 4:45.
Marked Catalog Copy:

Agenda Item III

College of Fine Arts and Communication

School of Communication

http://www.ecu.edu/cs-acad/ugcat/coursesc.cfm#comm

COMM: Communication

1001. Introduction to Communication (3) (F,S) (FC:SO)
Formerly COMM 2001; EMST 1010 Theory and processes affecting human communication, including interpersonal, small group, and organizational communication as well as theory processes, and history of mass media communication.

1002. Media Writing (3) (WI) (F,S,SS)
Formerly COMM 2002 May not count toward foundations curriculum social sciences requirement. P: ENGL 1100. Writing techniques for print, electronic mass media, public relations, and advertising.

2020. Fundamentals of Speech Communication (3) (F,S) (FC:FA)
Study of rhetorical situations including audience analysis and adaptation, organization, delivery styles, and analysis and evaluation of oratorical methods.

2030. Communication Research (3) (F,S)
Formerly COMM 3030; EMST 2030 2 classroom and 1 lab hours per week. May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Research methods used to measure content, process, and effects of communication on attitudes, knowledge, and behavior. Research design, data analysis, evaluation, and results presented in quantitative and qualitative research methodologies.

2103. Multimedia Messages for Communication Professionals (3) Formerly COMM 2003 2 lecture and 1 lab hours per week. May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Multimedia techniques in professional communication settings. Incorporation of text, sound, and video messages through computer technology. Emphasis on integrated message production used by communication professionals in journalism and public relations.

2104. Public Relations and Corporate Writing (3) (WI)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Writing used by print, broadcast, and online media. In-depth practice writing and editing corporate documents to include memos, reports, brochures, newsletter articles, backgrounders, news releases, and media kits.

2320. Basic Reporting (3) (WI) (F,S) Formerly COMM 2200; EMST 2510
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Journalistic news style. Gathering, writing, and editing of news stories for print and electronic media. Emphasis on broadcast and print styles and ethical considerations.

2410. Public Speaking (3) (F,S,SS) (FC:FA) Formerly SPCH 2510
Emphasis on organizing and delivering speeches for all occasions, including informative, persuasive, and ceremonial.

2420. Business and Professional Communication (3) (F,S,SS) (FC:FA) Formerly SPCH 2520
Emphasis on developing excellent communication skills in everyday speaking, interviews, group presentations, and public speaking. Student organizes and delivers informative, persuasive, and group presentations.

3061, 3062, 3063, 3064. Special Topics (1,2,3,4) Formerly EMST 3901, 3902, 3903, 3904
May be repeated for maximum of 6 s.h. credit. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Selected topics in electronic media studies.

3110. Persuasion Theories (3) (S) Formerly COMM 3010
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Persuasion as communication process. Differing aspects of source, channel(s), and receiver(s). Emphasis on contributions from behavioral theorists.

3120. Public Relations Theory (3) (F,S) Formerly COMM 3440
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Survey of theoretical, social, behavioral, and communicative aspects of public relations from which practice is built.

3142. Small Group Communication (3) Formerly COMM 3570
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Communication variables which influence quality of group communication. Group processes used for information exchange, problem solving, and decision making.

3151. Family Communication (3)
May not count toward foundations curriculum social sciences credit. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Family members co-construct meanings about their world in the unique communication environment of the family. In this setting, interpersonal and mass mediated communication converge about topics that impact the daily life of family members.

3152. Interpersonal Communication Theory (3) (F) (FC:SO)
Formerly COMM 3050 P: COMM major or minor or consent of instructor; COMM 1001, 1002. Theories and concepts which explain communication in ongoing interpersonal relationships. Focus on relationship development and maintenance.

3160. Organizational Communication Theory (3) Formerly COMM 3360
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Meanings and functions of communication in organizational settings. Communication in role relationships, internal and external information system flows, and role of communication in organizational culture development and maintenance.

3172. Media Effects (3) (F,S) (FC:SO) Formerly COMM 3615
P: COMM major or minor or consent of instructor; COMM 1001, 1002. Effects of mass media on individuals, societies, and cultures.

3180. Intercultural Communication (3) Formerly COMM 3080
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Communication theory and practice in multicultural contexts. Impact of cultural differences on interpersonal, organizational, and international communication.

3190. Health Communication (3)
P: COMM major or minor or consent of instructor; COMM 1001, 1002. Health communication in media, interpersonal, intercultural and organizational contexts.

3310. Copy Editing and Design (3) (F,S,SS) Formerly COMM 3200
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320. Basic course in editing and layout of variety of publications.

3311. Business and Economic Reporting (3) (WI) Formerly COMM 3211
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320. Communication students write about business and economic events.

3320. Advanced Reporting (3) (F,S) Formerly COMM 3210; EMST 3510
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor; COMM 1001 and 1002 or consent of instructor; COMM 2320; MPRD 3220. Principles and techniques of in-depth newsgathering. Topics include research of individuals, business and government, computer-assisted reporting, open meetings/records laws, and media research ethics.

3322. Computer Assisted Reporting (3) (WI) (F,S)
May not count toward foundations curriculum social sciences credit. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320. Principles and techniques of precision journalism. Topics include use of data analysis tools (e.g.: Excel, Access, SPSS, Arc View), FOI/Open Records laws, practical data analysis, and statistical methods for journalism research.

3330. Feature Writing (3) (WI) Formerly COMM 3230
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320. Study and practice in feature writing for newspapers, magazines, and special publications.

3340. Desktop Publishing (3)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320; ENGL 1200. Desktop publishing techniques for print media, public relations, and advertising.

3362. Visual Editing (3) Formerly COMM 3260
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2320; consent of instructor. Use of informational graphics in newspaper and public relations design and layout.

3380. Computer Mediated Communication (3)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Explores linear and interactive CMC forms as they relate to human behavior and motivation. Involves
communication issues related to identity construction, competency/proficiency, rules and conversions for specific mediated forms, online communities, relational development, ethics and deception, freedom of speech and influences on culture and access.

3390. International News Communication (3) (S) (FC:SO) Formerly COMM 3290
P: COMM major or minor or consent of instructor; COMM 1001, 1002. Study of world news communication systems. International news flow, news gathering agencies, foreign correspondents, theories, debates, and role of communication in global coexistence at socioeconomic and political levels.

3400. Argumentation (3)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, ENGL 1200. Argumentation as method of critical inquiry and public advocacy. Analysis of controversies and presentation of oral arguments.

3410. Advanced Public Speaking (3)
May not count toward foundations curriculum social sciences or fine arts requirements. P: COMM major or minor or consent of instructor; COMM 2410 or 2420. Enhances skills learned in COMM 2410 or 2420 and cements skills necessary for excellent business presentations, sales presentations, presentations to a board of directors, and after-dinner presentations. Student refines ability to plan, develop, and deliver professional presentations.

3520. Sports Media Survey (3)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Basic survey of the historical development of sports communication and reporting including influence of mass media on development of sports reporting. Covers basic principles of writing for sports community using AP Press Sports Writing Guide.

4032. Mass Media Law (3) (F,S) Formerly COMM 4610; EMST 4810
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002; 18 s.h. COMM. Provides working knowledge of legal system as it relates to communication professionals. Emphasis on libel, privacy, copyright, First Amendment, and federal regulation of telecommunication industry.

4040. Media, Culture, and Society (3) (F,S) Formerly COMM 4600; EMST 3530
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002; 15 hours COMM courses or consent of instructor. Critical perspectives on interaction among media, culture, and society.

4042. First Amendment Law (3)
May not count towards foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002; 18 s.h. COMM. Examines historical and contemporary controversies arising under the first amendment to constitution.

4045. Media Literacy for Communication Professionals (3) (F,S)
May not count toward foundations curriculum social sciences credit. P: COMM major or minor or consent of instructor; COMM 1001, 1002. Media literacy concepts and practices related to producing, understanding, and using messages distributed by mass media.
4050. Media Management (3) (S) Formerly EMST 4510
   P: COMM major or minor or consent of instructor; COMM 1001, 1002. Operation and
   management of broadcast stations and cable operations.

4060. Special Problems in Communication (3) (F,S,SS)
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002. Special projects, research,
   and independent reading for students capable of individual work under guidance of
   faculty advisor. Designed to fit special needs and interests of students.

4062. Media Sales and Promotion (3) (F) Formerly EMST 4520
   P: COMM major or minor or consent of instructor; COMM 1001, 1002. Role of sales and
   promotion in public and commercial broadcasting, cable, and related settings. Emphasis
   on sales, promotion, and fund raising.

4075. Media Criticism (3) (WI) Formerly COMM 4655; EMST 4530
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002. Interpretive analysis of
   communication principles and techniques in mediated texts, such as television programs,
   documentaries, or print advertisements.

4080. Senior Seminar (3) (SL*) (F,S,SS)
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002; completion of 24 s.h. in
   COMM before registering for course. Advanced study in communication. Emphasis on
   contemporary issues.

4081, 4082, 4083. Directed Independent Study (1,2,3) (F,S,SS) Formerly EMST 4981, 4982, 4983
   Intermediate or advanced student. May be repeated for maximum of 6 s.h. credit. P:
   COMM major or minor or consent of instructor; COMM 1001, 1002. Topic not otherwise
   offered in curriculum or beyond or in greater depth than is possible within context of
   regular course.

4091, 4092. Internship–Seminar (3,3) (F,S,SS) Formerly EMST 4991, 4992
   1 lecture and 10 lab hours per week. 140 hours of observation and practical experience,
   P: COMM major or minor or consent of instructor; COMM 1001, 1002; 18 s.h. COMM.
   Placement in professional setting appropriate to student’s area of concentration.

4130. Conflict and Communication (3) Formerly COMM 4030
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002. Role of communication in
   productive settlement of interpersonal and organizational disputes. Examines effective
   communication strategies for dispute resolution, mediation, negotiation, and bargaining.

4135. Gender and Communication (3) (F) Formerly COMM 4035
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002. P for WOST major or
   minor: COMM 1001, 1002; or WOST 2000 or 2400. Role of communication in
   construction of gender and role of gender in social organization. Use of language and
   communication systems.

4170. Directed Readings in Communication (3) (F,S,SS) Formerly COMM 4070
   May not count toward foundations curriculum social sciences requirement. P: COMM
   major or minor or consent of instructor; COMM 1001, 1002. Individually directed study.
4180. Public Relations Strategies (3) (WI) (F,S) Formerly COMM 4440
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 2104, 3120. Problem-solving strategies and principles of message design for developing public relations campaigns.

4185. International Public Relations (3) (F) Formerly COMM 4445
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 3120. Public relations as practiced outside US. Examines reasons for international growth of public relations and explores opportunities for US involvement.

4196. Senior Honors Seminar (3) Formerly COMM 4700
May not count toward foundations curriculum social sciences requirement. P: Senior standing; 3.5 cumulative and major GPA; COMM 1001, 1002. Tutorially directed readings in selected area and research proposal writing.

4199. Senior Honors Thesis (3) Formerly COMM 4705

4293. Editing and Producing the News (3)
P: COMM 3320; COMM major; COMM 1001, 1002 or consent of instructor. Capstone course in producing and editing for news media.

4321. Investigative Reporting (3) Formerly COMM 3321
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002, 3320. Advanced news gathering techniques for journalists. Online database searching and off-campus trips that encourage in-depth reporting.

4400. Rhetorical Theory and Criticism (3)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002; ENGL 1200. Significant developments in rhetorical theory. Special attention to speech principles and critical analysis of contemporary public address.

4905. Media Ethics (3) (WI)
May not count toward foundations curriculum social sciences requirement. P: COMM major or minor or consent of instructor; COMM 1001, 1002; 18 s.h. COMM. Principles of moral reasoning as applied to ethical dilemmas arising in media professions.

COMM Banked Courses
3012. Persuasion Practicum (3)
3240. Photojournalism (3)
3580. Debate (2)
4233. Advising Student Publications (3)

Agenda Item IV
THEA: Theatre Arts

1000. Introduction to Theatre (3) (F,S,SS) (FC:FA)
    For non-theatre arts majors. Audience’s appreciation of art of playwright, actor, director, and designer. Emphasis on development of western drama and theatrical arts in general.

1010. Introduction to Acting I (3) (F,S,SS) (FC:FA)
    Acting through use of exercises and improvisational techniques.

1020. Introduction to Acting II (3) (S,SS)
    P: THEA 1010. Acting through use of exercises, improvisations, and scenes.

1027. Musical Theatre Fundamentals I (1) (F)
    P: Audition and/or consent of instructor. Introduction to musical theatre performance fundamentals and song analyses.

1037. Musical Theatre Fundamentals II (1) (S)
    P: THEA 1027 or consent of instructor. Intermediate-level musical theatre performance fundamentals and song analyses.

1061. Musical Theatre Private Voice (1) (F,S)
    May be repeated for maximum of 10 s.h. P: THEA 1108, 1118 and/or admission to BFA musical theatre program. Applied private voice instruction specific to musical theatre singing, ranging from historic/legit technique to contemporary mix/belt techniques.

1108. Introduction to Musical Theatre Voice I (1) (F)
    Minimum of 1 instructed session and 1 studio hour per week. P: Audition and/or qualified status for BFA musical theatre program. Introduction to applied voice instruction specific to musical theatre technique and repertoire ranging from historic/legit technique to contemporary mix/belt technique.

1111. Apprentice Level Production (1) (F,S,SS)
    May be repeated up to three times. P: Consent of instructor. Entry level practicum in various areas of theatre and dance production supervised by faculty.

1118. Introduction to Musical Theatre Voice II (1) (S)
    Minimum of 1 instructed session and 1 studio hour per week. P: THEA 1108 or consent of instructor. Intermediate-level introduction to applied voice instruction specific to musical theatre repertoire.

2001. Stage Scenery I (3) (F,S) (FC:FA)
    Lectures and mandatory participation in construction and running crews on dept productions. Backstage organization and basic scenery production methods.

2002. Stage Scenery II (3) (S)

2003. Scene Painting (3) (S)

2004. Introduction to Theatrical Properties (3) (S)
P: THEA 2001. Techniques in construction and design of stage properties, including production operation.

2006. The Art of Make-up (2) (F,S)
P: THEA major. Materials and techniques involved in the art of stage make-up.

2009. Decor and Ornament for the Stage (3) (F)
Decorative modes in Western civilization from Renaissance to present.

2010. Professional Acting Technique I (3) (F)
Scene work and auditions for dept productions required. 6 hours per week. P: Audition and faculty jury; THEA 1020. Introduces reality of doing repetition exercise, adjustment with fellow actor, independent activity, justification, and simple objectives. Frees impulses of young actor within structure of improvisational exercise.

2015. Voice and Articulation (3) (F,S,SS)
P: Intended DNCE or THEA major. Develop personal and professional speech effectiveness.

2016. Vocal Production for the Actor (3) (F)
P: Professional acting and musical theatre major; THEA 2015; or consent of instructor. Exercises improve and develop actor’s voice.

2017. Movement for Actors (3) (F,S)
May not count toward foundations curriculum fine arts requirement. Movement study and exercises. Emphasis on integration of physical action and emotional response.

2018. Stage Combat: Unarmed (3) (F,S)
May not count toward foundations curriculum fine arts requirement. Study of unarmed stage combat technique. Emphasis on safety and dramatic application for the stage.

2020. Professional Acting Technique II (3) (S)
Scene work and auditions for department productions are required. 6 hours per week. P: THEA 2010. Beginning work with daydream and incorporation of emotional preparation into repetition exercise. Personalizing imaginary circumstances and introduction to relationship. Sustains young actor with true inner life from moment to unanticipated moment.

2035. Theatre History-Literature I (3) (WI*) (F-03)
Integrated study of developments in theatre production and style. Dramatic literature from Ancient Greece to fifteenth century.

2123. Early Experiences for the Prospective Teacher (1)
For prospective teachers. Minimum of 16 hours of directed observations and planned participation in appropriate school environments and 8 hours of seminar class instruction in the teaching area. May not count toward a BA major or minor. Introduction to teaching of theatre arts.

2222. Intern Level Production (2) (F,S,SS)
May be repeated up to three times. P: Consent of instructor. Basic level practicum in various areas of theatre and dance production supervised by faculty.

2501. Latino Theatre and Drama (3)
Explores the theatre and drama of Latinos in relation to the dominant culture.

3000, 3001. Special Theatre Projects (1,1) (F,S,SS)
May not be taken concurrently with THEA 2001 or 2002. P: Consent of instructor. Various areas of theatre production and performance supervised by faculty.

3002. Advanced Theatrical Drafting (3) (F)
3003. Stage Lighting (3) (F,S)
P: Consent of instructor. Theory and practice of methods of stage lighting.

3004. Scenery Design I (3) (F)
P: THEA 2002 or consent of instructor. Principles of scenery design for production.

3005. Scenery Design II (3) (S)
P: THEA 3004. Further development of design responses and rendering ability.

3007. Costume Design (3) (F,S)
3 lecture and 2 lab hours per week. Principles and process of stage costume design.

3008. Advanced Costume Design (3) (S)
6 studio hours per week. P: THEA 3007 or consent of instructor. Design process through design phase. Emphasis on character development and rendering skills.

3010. Professional Acting Technique III (3) (F)
Scene work and auditions for dept productions required. 6 hours per week. P: THEA 2020. Interpretation with emotional colors of previous work. Introduction to character idea and characterization work through a physical impediment. Organizes and synchronizes student to role.

3015. Oral Interpretation (3) (F,S)
P: THEA 2015 or consent of instructor. Reading of prose, narrative, dialogue, and poetry to audience.

3018. Movement for Actors II: Physical Characterization (3) (F)

3019. Stage Combat: Rapier and Dagger (3) (F,S)
May not count toward foundations curriculum fine arts requirement. P: THEA 2018. Study of armed stage combat, sword technique as it applies to Rapier and Dagger. Emphasis on safety and dramatic application for the stage.

3020. Professional Acting Technique IV (3) (S)
Scene work and auditions for dept productions required. 6 hours per week. P: THEA 3010. Monologue work. Text work includes actions, beats, paraphrasing, phrasing, particularizations, and justification. Play reality of action from consistent and meaningful point of view.

3025. Intermediate Voice and Articulation (3) (S)
P: THEA 2015 or consent of instructor. Professional competence in pronunciation, intonation, and strenuous use of voice.

3027, 4027, 4028. Vocal Production Laboratory I, II, III (1,1,1) (3027:F; 4027:S; 4028:F)
2 hours per week. P: THEA 2016, 3025. Exercises to maintain acting student’s vocal technique.

3030. Youth Theatre I (3) (F,S)
May not count toward foundations curriculum. P: THEA 1010, 1020, 2015; consent of instructor. Introduction to theatre for youth. K-12, which explores the history, literature, theory, writing and practical application in production. The class will function as a theatre-for-youth performance ensemble company as part of the practicum experience.

3031. Youth Theatre II (3) (F,S)
May not count toward foundations curriculum. P: THEA 3030; consent of instructor. Intermediate-level in theatre for youth, K-12, which explores literature, writing and practical application of youth theatre production throughout the semester. The class will function as a youth theatre performance ensemble company as part of the practicum experience.

3032. Constructing Performance Projects in Theatre for Youth (3) (F,S)
   P: THEA 3030 and consent of instructor. Development of performance projects and original scripts for children and youth. Study and analysis or international dramatic literature in children’s theatre as it applies to current production practices.

3035. Theatre History-Literature II (3) (WI*) (F-03)
   Integrated study of developments in theatre production and style. Dramatic literature from European Renaissance to Commonwealth and Restoration Period.

3036. Theatre History-Literature III (3) (WI*) (F)
   Integrated study of developments in theatre production and style. Dramatic literature from Age of Enlightenment in eighteenth century through beginnings of Modern Realism to present day.

3050. Advanced Acting I (3) (F)
   For students not involved in THEA 2010-3020. Basic approach to role development through intensive scene study and improvisational exercises.

3055. History of the American Musical Theatre (3) (S) (WI) Same as MUSC 3055
   P: MUSC 2166 or consent of instructor. Styles and periods.

3060. Advanced Acting II (3) (S)
   P: THEA 3050. Continued role development through intensive scene study and improvisational exercises.

3075. Developing the Concept: Play Analysis for Designers and Directors (3) (WI) (F,S)
   P: THEA 2035; 3003 or 3004 or 3007. Use of select one-act plays to develop skills in devising design-production concepts and preparing plays for production.

3090. Musical Theatre Performance Techniques I (3) (F)
   2, 2-hour per week performance labs and/or lectures. P: THEA 1020; qualified status for BFA musical theatre program; and/or consent of instructor. First of four-part process-oriented approach to analyzing and developing musical and dramatic techniques for performing musical material in context of its original setting. Music from standard Broadway repertoire.

3095. Musical Theatre Performance Techniques II (3) (S)
   2, 2-hour per week performance labs. P: THEA 3090. Continuation of technical development in THEA 3090, with increase in musical and dramatic difficulty. Emphasis on lyric analysis and period musical styles.

3333. Journeyman Level Production (3) (F,S,SS)
   May be repeated up to three times. P: Consent of instructor. Intermediate level practicum in various areas of theatre and dance production supervised by faculty.

3501, 3502, 3503. Independent Study in Theatre (1,2,3) (F,S,SS)
   May be repeated for maximum of 4 s.h. with change of topic. P: Consent of instructor and dept chair. Independent study of scholarly topic.

3601, 3602, 3603. Selected Topics in Theatre (1,2,3) (F,S,SS)
   May be repeated for maximum of 4 s.h. with change of topic. P: Consent of instructor and dept chair. Intensive study of selected topics.
3604. **Theatre for Social Change (3)**
Exploration of interactive theatre techniques to examine and combat institutional, social, cultural, and personal oppressions.

4000, 4001. **Special Theatre Projects (1,1) (F,S,SS)**
May not be taken concurrently with THEA 2001 or 2002. P: Consent of instructor. Special projects in areas of theatre production and performance supervised by faculty.

4002. **Advanced Technical Production (6) (F,S)**
Minimum of 280 work and academic hours per semester. P: Junior standing; consent of instructor. Supervised internship in area of technical production. Extensive practical experience. Emphasis on professional methods in group situation. Parallel readings and study.

4003. **Advanced Stage Lighting (3) (F)**
4 classroom and/or lab hours per week. P: THEA 3003 or consent of instructor. Advanced theory and application of lighting design for theatre.

4018. **Stage Combat: Broadsword and Quarterstaff (3) (F,S)**
May not count toward foundations curriculum fine arts requirement. P: THEA 2018. Study of armed stage combat, sword technique as it applies to Broadsword. Study of armed stage combat, Quarterstaff technique. Emphasis on safety and dramatic application for the stage.

4010. **Master Class in Advanced Acting I (3) (F)**
P: THEA 3020 or 3060; consent of instructor. Concentration on advanced problem for the actor: Spoon River monologue work, relaxation, sensory task work, rehearsal preparation, improvisation, and modern and contemporary scene work.

4021. **Master Class in Advanced Acting II (3) (S)**
P: THEA 4010 or consent of instructor. Concentration on advanced problems for the actor; classical scene work, characterization, inner monologue, substitution object and situation exercises, quick result exercises, preparation, rehearsal and filming of scenes for television.

4025. **Television and Film Practicum for the Actor I (3) (F)**
Auditions for dept productions required. 6 hours per week. P: THEA 3020 or consent of instructor. Development of actor’s craft and instrument used as expressive tools for film media. Major genres in TV/film, both in studio and on location.

4026. **Television and Film Practicum for the Actor II (3)**
Auditions for dept productions required. 6 hours per week. P: THEA 4025 or consent of instructor. Continued development of actor’s craft and instrument used as expressive tools for film media. Major genres in TV/film, both in studio and on location.

4030. **Creative Dramatics (3) (F,S,SS)**
Informal, improvised dramatics with children. Preparation of leaders to conduct such sessions in school and community.

4031. **Dialects for the Stage (2) (S)**
P: THEA 2020 or consent of instructor. Selected dialects for performer.

4036. **Playwriting (2) (WI)**
Structure of play as piece of writing. Emphasis on actual writing of one-act plays.

4040. **Directing I (3) (WI) (F) Formerly THEA 3070**
Work as assistant director or stage manager on a dept. production. P: THEA 2035, 3035, 3036; 3020 or 3050. Principles, techniques, and methods of analyzing and directing a play.

4041. Directing II (3) (WI) (S) Formerly THEA 3080
Work as assistant director or stage manager on a dept. production. P: THEA 4040 and consent of instructor. Advanced study of principles, techniques, and methods of directing plays in various styles and stage settings.

4065. Stage Management (3) (F,S)
2 lecture and 1 lab/studio hours per week. P: At least 2 of the following courses: THEA 2001, 2001, 3003, 3007 or consent of instructor. Duties and operating procedures of stage manager in professional and nonprofessional theatre.

4066. Theatre Management (3) (F,S) (FC:FA)
Theory and practice of administration for nonprofit and commercial theatres. Theatre unions, financial considerations, promotion, grantsmanship, audience development, and career opportunities in theatre management.

4070. Professional Preparation and Audition Technique for Actors (3) (S)
Auditions for dept productions required. 2 lecture and 2 lab hours per week. P: THEA 4025. Preparation for professional entertainment industry market. Development of diverse audition repertoire and market-entry skills.

4080. Musical Theatre Practicum (1) (WI)
P: THEA 4095. Faculty-supervised senior recitals for graduating performers in BFA musical theatre concentration.

4090. Musical Theatre Performance Technique III (3) (F)
4 studio hours per week. P: THEA 2035, 3095. Musical material (solos, duets, and trios) from Broadway repertoire utilized for advanced in-context scene study.

4095. Musical Theatre Performance Technique IV (3) (S)
4 studio hours per week. P: THEA 4090. Audition technique and preparation for mock audition performed for jury of stage directors at end of semester.

4099. Design and Production Portfolio (1) (F,S)
3 hours per week. P: Junior or senior standing; consent of instructor. Assembly and presentation of portfolio and resume in theatrical scenography.

4140. Internship in Production and Performance in Theatre for Youth I (3) (F,S)
P: Consent of instructor. Observation and supervised internship in production and performance in school and community settings.

4141. Internship in Production and Performance in Theatre for Youth II (3) (F,S)
P: THEA 4140 and consent of instructor. Observation and supervised internship in production and performance in school and community settings.

4323. The Teaching of Theatre Arts in Grades K-12 (3)
P: Admission to upper division. May not count toward BA major or minor. Teaching methods and practice application of theory.

4324. Internship in Theater Education (10)
Full-time, semester-long internship. P: Admission to upper division; THEA 2123; C: THEA 4325. Observation and supervised teaching in assigned theatre arts public school classroom.

4325. Internship Seminar: Issues in Theater Education (1)
P: Admission to upper division; C: THEA 4324. Individualized study of problems or issues pertinent in theatre education.

4444. Master Level Production (4) (F,S,SS)
May be repeated up to three times. P: Consent of instructor. Advanced level practicum in various areas of theatre and dance production supervised by faculty.

5000. Dramatic Arts Workshop (3)
Presentation and evaluation of workshop projects in various aspects of theatre arts.
THEA Banked Courses
2005. Oral Communication (2)
2200. Creative Dance and Drama for the Elementary School (2)
3030. Acting I (3)
3040. Acting II (3)
4029. Advanced Oral Interpretation (2)
4032. Dialects for the Stage (2)

Agenda Item V

Honors College

http://www.ecu.edu/cs-acad/ugcat/coursesh.cfm#hnrs

HNRS: HONORS

2006. Interdisciplinary Honors Seminar (3) (WI)
Interdisciplinary investigation. Examples include “The Grotesque in Art and Literature,” “Poets and Painters,” “The Sixties: Be There Now,” and “The History and Philosophy of Technology.”

2011. Honors Seminar in the Humanities (3) (WI) (FC:HU)
May be repeated for maximum of 6 s.h. with change of topic. Topic varies by semester. Examples include “What it Means to be Human (according to Shakespeare),” “Current Attempts to Resolve Classical Philosophical Problems,” “Banning Books: Censorship in Modern America,” and “Gay Literature: From Marginal to Mainstream.”

2012. Honors Seminar in the Fine Arts (3) (WI) (FC:FA)
May be repeated for maximum of 6 s.h. with change of topic. Topic varies by semester. Examples include “The Arts in Society,” “An Introduction to the Fine Arts,” “Gothic Cathedrals: Their Meaning and Significance,” and “Listening to Music Intelligently.”

2013. Honors Seminar in the Social Sciences (3) (WI) (FC:SO)

2014. Honors Seminar in the Sciences (3) (WI) (FC:SC)
May be repeated for maximum of 6 s.h. with change of topic. Topic varies by semester. Examples include “Subjectivity in Science,” “Scientific Experimentation and Social Acceptance,” “Chemistry and the Environment,” and “The Geology of the National Parks.”

2015. Honors Science Laboratory (1) (WI) (FC:SC)
Accompanies HNRS 2014 when considered appropriate by science department offering the seminar.

2116. Interdisciplinary Honors Seminar (3) (WI) (FC:HU)
Interdisciplinary investigation. Examples include “The Grotesque in Art and Literature,” “Poets and Painters,” “The Sixties: Be There Now,” and “The History and Philosophy of Technology.”

2216. Interdisciplinary Honors Seminar (3) (WI) (FC:FA)
Interdisciplinary investigation. Examples include “The Grotesque in Art and Literature,” “Poets and Painters,” “The Sixties: Be There Now,” and “The History and Philosophy of Technology.”

2316. Interdisciplinary Honors Seminar (3) (WI) (FC:SO)
Interdisciplinary investigation. Examples include “The Grotesque in Art and Literature,” “Poets and Painters,” “The Sixties: Be There Now,” and “The History and Philosophy of Technology.”

2416. Interdisciplinary Honors Seminar (3) (WI) (FC:SC)
Interdisciplinary investigation. Examples include “The Grotesque in Art and Literature,” “Poets and Painters,” “The Sixties: Be There Now,” and “The History and Philosophy of Technology.”

3001, 3002, 3003. Honors Special Topics (1,2,3)
May be repeated for a maximum of 9 s.h. P: Consent of instructor. Selected topics.

3011. Honors Seminar in the Humanities (3) (WI) (FC:HU)
May be repeated for maximum of 6 s.h. with change of topic. Topic varies by semester. Examples include “The Literature of Fyodor Dostoevsky,” “Literature and Medicine,” “A Bi-Gender Reading of Jewish-American Literature,” and “The World as seen by Nobel Prize Winners in Literature.”

3012. Honors Seminar in the Fine Arts (3) (WI) (FC:FA)

3013. Honors Seminar in the Social Sciences (3) (WI) (FC:SO)
May be repeated for maximum of 6 s.h. with change of topic. Topic varies by semester. Examples include “Intimate Violence: Out of the Shadows,” “The Islamic World,” “South Africa: Transition from Apartheid to Democracy,” and “Terrorism and September 11.”

3014. Honors Seminar in the Sciences (3) (WI) (FC:SC)

3015. Honors Science Laboratory (1) (WI) (FC:SC)
Accompanies HNRS 3014 when considered appropriate by science department offering the seminar.

3101, 3102, 3103. Independent Study (1,2,3) (WI) (F,S,SS)
May be repeated in combination with other HNRS independent students courses for a maximum of 6 s.h. P: Consent of program director. Independent research/creative activity project supervised by faculty mentor.

4101, 4102, 4103. Independent Study (1,2,3) (WI) (F,S,SS)
May be repeated in combination with other HNRS independent students courses for a maximum of 6 s.h. P: Consent of program director. Independent research/creative activity project supervised by faculty mentor.

Agenda Item VI

Thomas Harriot College of Arts and Sciences

Department of Biology


BIOL: Biology

1030. Plants and Human Affairs (3) (F,S) (FC:SC)
May not count toward BIOL major or minor. BIOL 1051 may be taken as a lab complement. Biology of plants and their related organisms and importance throughout history.

1050. General Biology (3) (F,S,SS) (FC:SC)
May not count toward BIOL major or minor. Molecular basis of biology, bioenergetics, control systems, reproduction and development, genetics, diversity, evolution, communication, and behavior ecosystems.

1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
1 3-hour lab per week. May not count toward BIOL major or minor. C: BIOL 1030 or 1050. Practical applications of biological principles.

1060. Environmental Biology (4) (F,S,SS) (FC:SC)
May not count toward BIOL major or minor. Interrelationships of organisms with each other and with their environment and human factors. Basic ecological problems, principles, and solutions.

1061. Environmental Biology Laboratory (1) (F,S) (FC:SC)
1 3-hour lab or field excursion per week. May not count toward BIOL major or minor. Optional lab or field course offered to provide a more in-depth look at habitats.

1100, 1101. Principles of Biology and Laboratory I (3,1) (F,S,SS) (FC:SC)
3 lecture and 3 lab hours per week. P/C for 1101: BIOL 1100. Molecular biology, bioenergetics, cellular structure, and physiology. Molecular basis of inheritance and control of gene expression.

1200, 1201. Principles of Biology and Laboratory II (3,1) (F,S,SS) (FC:SC)
3 lecture and 3 lab hours per week. P/C for 1201: BIOL 1200. Five living kingdoms and diversity that prevails in natural systems. Principles of evolution, ecology, and behavior, particularly in context of diversity.

2015. Introduction to Biological Anthropology (3) (WI*) (F,S) (FC:SC) Same as ANTH 2015
May count toward foundations curriculum science requirement for all except ANTH majors. May not

**2016. Biological Anthropology Laboratory (1) (F,S) (FC:SC) Same as ANTH 2016**


**2100, 2101. Basic Laboratory Methods for Biotechnology (3,0) (F,SS) Formerly BIOL 3100, 3101**

1 lecture and 4 laboratory hours per week. P: BIOL 1100, 1101; MATH 1065, CHEM 1020, 1021 or 1120, 1121 or 1150, 1151. Practical basic training in laboratory techniques generally applicable to molecular and cell biology, genetics, biochemistry, microbiology and forensics.

**2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC)**

3 lectures and 2 2-hour labs per week. May not count toward BIOL major or minor. P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160, BIOL 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110: BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110. General study of microorganisms and their importance to humans. Emphasis on fundamental life processes, including a brief introduction to epidemiology and immunology.

**2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (FC:SC)**

A maximum of 4 s.h. of 2000-level human physiology and anatomy coursework may count toward the BIOL major or minor. P: BIOL 1050, 1051; or 1100, 1101. Functional anatomy and normal physiology of human organ systems.

**2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC)**

3 lab hours per week. May not count toward BIOL major or minor. P/C: BIOL 2130. Principles and review of anatomy of human organ systems.

**2140, 2150. Human Physiology and Anatomy (3,3)**

Two-semester integrated course. A maximum of 4 s.h. of 2000-level human physiology and anatomy coursework may count toward the BIOL major or minor. P: CHEM 1120 or 1150; 2.75 GPA or consent of instructor; P for 2150: BIOL 2140; 2.75 GPA or consent of instructor; C for 2140: BIOL 2141; C for 2150: BIOL 2151. Normal physiology and functional anatomy of human organ systems.

**2141, 2151. Human Physiology and Anatomy Laboratory (1,1)**

3 lab hours per week. Two-semester integrated labs. A maximum of 4 s.h. of 2000-level human physiology and anatomy coursework may count toward the BIOL major or minor. P for 2151: BIOL 2150; C for 2141: BIOL 2140; C for 2151: BIOL 2150. Application of anatomical and physiological concepts.

**2250. Ecology (3) (F,S,SS)**

P: BIOL 1100, 1101, 1200, 1201. Structure and function of ecosystems. Relationships of environmental factors operating in different habitats to floral and faunal composition of each community.

**2251. Ecology Laboratory (1) (F,S,SS)**

3 lab hours per week. P: BIOL 1100, 1101, 1200, 1201; C: BIOL 2250. Field experiences and lab methods used to determine structure and function of ecosystems.

**2300. Principles of Genetics (3) (F,S,SS)**

P: BIOL 1100, 1200. Emphasis on modern genetics and its application.

**2800. Biological Instruction (2) (F, S)**

1 lecture and 3 lab hours per week. Open to biology or biochemistry majors by invitation only. P: BIOL 1100, 1101, 1200, 1201; or consent of instructor. Instruction and supervised experience in methods and practice of teaching introductory biology.

**3070, 3071. Survey of Plants and Fungi (4,0)**

P: BIOL 1050, 1051 or 1060, 1061 or 12.00 1201. Plants and fungi with emphasis on evolutionary patterns in structure, reproduction, and ecological function.

**3150. Plant Biology (3) (S)**
P: BIOL 2250 or 2300 or consent of instructor. Plant structure, function and diversity, including physiology, metabolism, reproduction, genetics, evolution, ecology and human use.

**3220, 3221. Microbiology (4,0) (F)**
3 lectures and 2 2-hour labs per week. P: BIOL 1200, 1201; CHEM 2650 or 2750. Structure, physiology, disease, environmental relationships, and molecular biology of microbes.

**3230, 3231. Field Botany (4,0) (F,S,SS)**
P: BIOL 1050, 1051 or 1100, 1101; C for 3230: 3231; C for 3231: 3230. Plant identification and interactions of plants with their chemical, physical, and living environments. Emphasis on recognition of common vascular elements of local flora and major plant communities of coastal NC.

**3240, 3241. Field Zoology (4,0) (F)**
P: BIOL 1060 or 2250. Methods and principles in zoological field study. Focus on local NC vertebrate fauna.

**3260. Cell and Developmental Biology (3) Formerly BIOL 2260**
P: BIOL 2300. Cellular and developmental topics such as gene expression, cell signaling and invertebrate and vertebrate development.

**3310, 3311. Cellular Physiology (4,0) (F,S,SS)**
3 lectures and 1 3-hour lab per week. P: CHEM 1120 and 1130, or 2650 or 2750 or 2770. Structure and function of cells. Emphasis on physico-chemical aspects. Current status of major problems such as gene function, photosynthesis, contraction, active transport, and nerve cell function.

**3320. Principles of Animal Physiology (3) (F,S,SS)**
P: CHEM 2650 or 2750 or 2770. Introduces concepts of animal physiology.

**3321. Principles of Animal Physiology Laboratory (1) (F,S,SS)**
C: BIOL 3320. Lab to accompany BIOL 3320.

**3400, 3401. Biological Field Studies of the Coastal Plain (3,0)**
2 lecture and 3 lab hours per week. P: BIOL 1100, 1200 or 2 from GEOL 1500, 1550, 1600 and 1700. Current status and change initiated by nature and man. Field trips and field projects important.

**3504. Research in Biology (1) (WI) (F,S,SS)**
2 hours of research-related work per week. May be repeated for a maximum of 6 s.h. P: Consent of instructor. Independent research project in collaboration with a faculty mentor.

**3550. Biology Honors (1) (WI) (F,S,SS)**
Conferences with staff as needed. May be repeated once for a maximum of 2 s.h. Student taking this course will normally be expected to take BIOL 4550. P: Faculty invitation. Seminar and research.

**3620. Biological Evolution (3) (F)**
P: MATH 1065 or equivalent; BIOL 2300 or consent of instructor. Evolution from a biological standpoint. Relationships of evolutionary theory and reciprocal impact on ecology, genetics, diversity, and biogeography. Speciation, selection and populations.

**3621. Biological Evolution Laboratory (1) (F)**
C: BIOL 3620. 3 lab hours per week. Hands-on experience with computer-based molecular evolutionary analyses, student discussions and presentations of course material.

**3660. Introduction to Marine Biology (3) (F,S,SS)**
Coastal field trip, at student’s expense, required. P/C: BIOL 2250, 2251. Ocean habitats and marine plants and animals that comprise various marine ecosystems.

**3661. Introduction to Marine Biology Laboratory (1) (F,S)**
3 lab hours per week. C: BIOL 3660. Exercises examine physical and chemical properties of ocean waters and representative marine organisms.

**3740, 3741. Animal Behavior (4,0) (WI) (F)**
3 lecture and 2 discussion hours per week. P: BIOL 1100, 1200; RP: BIOL 2250. Introduction to animal behavior with emphasis on experimental approaches. Topics include evolution and development of behavior, neural mechanisms, instinct, communication, foraging and reproductive behavior, and sociobiology.

**3820. Plant Biotechnology (3)**
P: BIOL 2300 or consent of instructor. Methods and principles for creating transgenic plants and their applications in agriculture, pharmaceuticals and industry and their effects on the environment; benefits and risks of genetically modified organisms.

4040. Human Genetics (3)

4050, 4051. Comparative Anatomy (4,0) (F)
2 lectures and 2 3-hour labs per week. P: BIOL1100, 1200. Structure and relationship of vertebrate animals. Emphasis on phylogeny of organ systems.

4060, 4061. Embryology (4,0)
3 lectures and 1 3-hour lab per week. P: BIOL 2300. Early developmental processes of anatomical and physiological significance. Emphasis on developmental stages of frog, chick, and mammalian embryos.

4071. Human Gross Anatomy (4)
3 conference/demonstration and 3 lab hours per week. May not count toward foundations curriculum science requirement. P: BIOL 4050, 4051; or consent of instructor. Dissection-based regional study of human cadaver.

4150. Pestilence, Politics and Conquest (3) (S)
P: BIOL 1050 or 1100 or consent of instructor. Pathology of infectious diseases and the impact that they had, or may have, on world events, past, present and future.

4170. Immunology I (3) (F)
P: BIOL 2300, or consent of instructor. Structure, function, and genetic organization of body’s defense system. Interactions of immunocompetent cells and their role in infection, disease, and autoimmunity.

4130. Astrobiology (3) (WI) (F)

4200, 4201. Population and Community Ecology (4,0) (4200:WI) (S)
P: BIOL 2250, 2251, 2300; CHEM 1150, 1151; RP: CHEM 1160, 1161; MATH 2121 or statistics course. Organization of populations and communities. Emphasis on interactions among organisms and their environments and how these structure populations and communities.

4210. Phylogenetic Theory (3) (F)
P: BIOL 2250, 2251, 2300. Theory and practice of modern phylogenetic methods. Topics include basic evolutionary concepts, reconstructing evolutionary relationships using molecular and other data, and statistical methods for assessing reliability of phylogenetic analyses. Emphasis on hands-on experience with phylogenetic computer programs.

4220. Microbes and Immunity (3) (WI*) (S,SS)
P: BIOL 2110, 2111; or 3220, 3221. Interaction of pathogenic microbes such as bacteria, viruses, fungi, and parasites with human defense system.

4230. Concepts in Cell Biology (3) (S)
P: BIOL 3310. Basic concepts of cell biology, including control of gene expression, DNA repair, programmed cell death, cell communication.

4240. Genome Evolution (3) (S)
P: BIOL 2300 or consent of instructor. Recent advances in comparative genomics, focusing on the evolution of more complex eukaryotic genomes. Course includes lectures and seminar discussions of current research publications.

4300, 4301. Ecosystem Ecology (4,0) (WI) (F)
P: BIOL 2250, 2251. In-depth examination of ecosystem processes. Primary production, decomposition, and nutrient cycling as influenced by biotic and environmental controls in terrestrial, aquatic, and wetland ecosystems.

4320. Ecological Responses to Global Climate Change (3) (S)
P: BIOL 2250, 2251. Theory and practical examination of effects of climate change. Predicted and
present environmental influences on ecosystems, communities, populations and organisms.

4400. Terrestrial Field Ecology (4) (SS)
2 lecture and 6 lab or fieldwork hours per week. Field and lab work at an off-campus research site may involve additional costs. P: BIOL 2250, 2251; BIOS 1500 or MATH 2228 or 2283; consent of instructor (by application). Research skills and techniques used by ecologists in freshwater and terrestrial systems in preparation for ecological research at graduate level.

4500. Marine Field Ecology (4) (SS)
2 lecture and 6 lab and/or fieldwork hours per week at an off-campus research site or field station. May involve additional costs. P: BIOL 3660, 3661; P: BIOS 1500 or MATH 2228 or 2283; consent of instructor (by application). Research skills and techniques used by marine ecologists in preparation for marine and oceanographic research at graduate level.

4504, 4514. Research Problems in Biology (2,2) (WI, WI) (F,S,SS)

4800. Topics in Biology (3)
May be repeated once with a change of topic. P: BIOL 2300 or 2250 or consent of instructor. Special topics of contemporary interest.

4991, 4992, 4993. Internship (1,2,3) (F, S, SS)
May be repeated for a maximum of 6 s.h. Must earn a C or better to count toward BIOL electives. P: Consent of instructor. Lab or field experiences under the supervision of a member of the biology faculty in conjunction with a bioscience professional in a private sector, government or biomedical laboratory, field site, or workplace.

4995. Biology Honors Thesis (2) (WI)
P: Consent of the instructor; minimum GPA 3.0. Independent student research project with defended thesis product.

5070, 5071. Ornithology (4,0)
3 lecture hours and 1 3-hour lab per week. Field trips to observe native birds in natural surroundings required. P: 8 s.h. in BIOL. Survey of birds of the world. Emphasis on ecology, evolution, and behavior: adaptive radiation, migration, flight mechanics, morphology, taxonomy, bird song, reproduction, population biology, and conservation of birds.

5150, 5151. Herpetology (4,0)
3 lectures and 1 3-hour lab per week. P: 8 s.h. in BIOL. Taxonomy, anatomy, physiology, distribution, phylogeny, natural history, and ecology of reptiles and amphibians of the world. Emphasis on species of NC and Atlantic Coastal Plain.

5200, 5201. Invertebrate Zoology (4,0)
3 lectures and 1 3-hour lab per week. P: 6 s.h. in BIOL. General comparative anatomical and physiological aspects of invertebrate groups. Emphasis on similarities, differences, and evolution.

5220, 5221. Limnology (4,0)
3 lectures and 1 3-hour lab per week. P: BIOL 2250, 2251; or consent of instructor. Physical, chemical, and biological factors of inland waters and their influence on aquatic organisms.

5230, 5231. Phycolgy (4,0)
3 lectures and 1 3-hour lab per week. P: BIOL 1200, 1201. Systematic survey of algae. Emphasis on their
role in aquatic ecosystems. Lab employs techniques for studying algae and use of systematic keys.

**5260, 5261. Microbial Ecology (4,0)**

3 lectures and 2 2-hour labs per week. P: BIOL 2250, 2251, 3220, 3221; or consent of instructor.

Interactions between microorganisms and their physical, chemical, and biological environment. Microbial involvement in energy flow, nutrient cycling, and intra/inter-specific interactions. Introduces statistical analyses of biological and ecological data.

**5270. Marine Community Ecology (3)**

P: BIOL 2250, 2251; or consent of instructor. Advanced examination of ecology of marine and brackish water communities based on principles of population biology and community ecology. Emphasis on

http://www.ecu.edu/cs-acad/ugcat/coursesb.cfm#biol

### BIOL Banked Courses

1. **1070, 1071. General Botany (5,0)**
2. **1080, 1081. General Zoology (5,0)**
3. **2260. Cell and Developmental Biology (3)**
4. **2261. Cell and Developmental Biology Laboratory (1)**
5. **3301. Principles of Genetics Laboratory (1)**
6. **4480, 4481. Cytology (2,2)**
7. **4720. Principles of Biology II (2)**
8. **4999. Senior Topics (1)**
9. **5000, 5001. Radio Tracer Techniques in Biology (3,0)**
10. **5020, 5021. Animal Parasitology (4,0)**
11. **5040, 5041. Mycology (4,0)**
13. **5080, 5081. Plant Anatomy and Morphology (4,0)**
14. **5110, 5111. Plant Growth and Development (4,0)**
15. **5678. Biology of Aging (3)**
16. **5850, 5851. Biometry (3,0)**
17. **5860, 5861. Biological Applications of Digital Computers (3,0)**
18. **5880, 5881. Microbial Physiology (4,0)**
20. **5920, 5921. Vertebrate Systematics (4,0)**

### Agenda Item VII

**Thomas Harriot College of Arts and Sciences**

**Department of Geography**
Thomas Harriot College of Arts and Sciences

Department of Geography

Burrell Montz, Chairperson, A-227 Brewster Building

BA in Geography

Students must complete a minimum of 21 s.h. in geography above 2999. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum.*) - 42 s.h.
2. Foreign language through level 1004 - 12 s.h.
3. Common core - 13 s.h.

GEOG 2400. Spatial Data Analysis (3) (F, S)
GEOG 4999. Geography Professional Seminar (1) (P: Consent of instructor)
Choose 9 s.h. electives from:
GEOG 3410. Fundamentals of GIS (3) (F, S)
GEOG 3420. Remote Sensing of the Environment I (3) (F) (P: GEOG 3410 or equivalent)
GEOG 3430. Geographic Information Systems I (3) (F,S) (P: GEOG 3410 or equivalent)
GEOG 3450. Introduction to the Global Positioning System (3) (S) (P: GEOG 3410 or equivalent)
GEOG 3460. GIS Applications Programming (3) (F) (P: GEOG 3410; CSCI 1610 or MIS 2223 or BITE 2212 or consent of instructor)
GEOG 4150. Advanced Spatial Analysis (3) (F) (P: GEOG 2400, 2410; or consent of instructor)
GEOG 4410. Advanced Cartographic Design and Production (3) (F,S) (P: GEOG 3410 or equivalent experience)
GEOG 4420. Remote Sensing II (3) (P: GEOG 3420 or consent of instructor)
GEOG 4430. Geographic Information Systems II (3) (P: GEOG 3430 or consent of instructor)
GEOG 4440. Coastal Applications of GIS (3) (F,S) (P: GEOG 2250, GEOG 2410; or consent of instructor)
GEOG 4450. GISScience, Society, and Technology (3) (S) (P: GEOG 2410, 3420, 3430; or consent of instructor)
GEOG 4460. Digital Terrain Analysis (3) (F) (P: GEOG 2250, GEOG 2410; or consent of instructor)
GEOG 4491, 4492, 4493. Supervised Study in Geographic Techniques (1,2,3) (F,S,SS)
GEOG 4801, 4802, 4803. Geographic Internship (1,2,3) (F,S,SS) (P: Consent of GEOG internship director the semester prior to the internship.)
GEOG 4901. Senior Honors Thesis (3) (F,S) (P: GEOG 4900 with a grade of B or higher)
GEOG 5491, 5492, 5493. Seminar in Geographic Techniques (1,2,3) (P: Consent of instructor)
May choose any GEOG course listed below that is not being counted toward the degree.

4. Concentration area
(Choose 15 s.h. in one area, 6 s.h. in the other area.) - 21 s.h.

Human:
GEOG 2003. Geography of the Global Economy (3) (F,S) (FC:SO)
GEOG 2019. Geography of Recreation (3) (F) (FC:SO)
GEOG 2100. World Geography: Developed Regions (3) (F, S, SS) (FC:SO)
GEOG 2110. World Geography: Less Developed Regions (3) (F, S, SS) (FC:SO)
*GEOG 2300. Geography of Environmental Resources (3) (F)
GEOG 3001. Historical Geography of the United States (3)
GEOG 3003. Political Geography (3) (WI) (S) (FC:SO)
GEOG 3004. Urban Geography (3) (F)
GEOG 3049. Latin America (3) (WI) (FC:SO)
GEOG 3050. Africa (3) (WI) (S) (FC:SO)
GEOG 3051. Asia (3) (S) (FC:SO)
GEOG 3055. North Carolina (3) (F) (FC:SO)
GEOG 3056. Middle America (3) (FC:SO)
*GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 4140. Research Methods in Human Geography (3) (S)
*GEOG 4191, 4192, 4193. Supervised Study in Regional Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
*GEOG 4270. Water Resources Management and Planning (3) (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4310. Geography of Transportation and Trade (3) (S) (P: GEOG 2003)
GEOG 4315. Geographic Images (3) (F) (FC:SO)
GEOG 4320. Gender, Economy, and Development (3) (S)
GEOG 4325. Resources, Population, and Development (3) (WI) (FC:SO) (P: GEOG 2003 or consent of instructor)
GEOG 4330. Agricultural Geography (3) (F) (FC:SO)
GEOG 4335. Geography of Tourism (3) (S) (FC:SO)
GEOG 4340. Introduction to Medical Geography (3) (S) (P: GEOG 2410 or consent of Instructor)*
GEOG 4345. Human Migration and Global Restructuring (3) (F) (FC:SO)
GEOG 4391, 4392, 4393. Supervised Study in Human Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
GEOG 4900. Honors Research (3) (F,S) (P: Admission to GEOG honors program)
GEOG 5391, 5392, 5393. Seminar in Human Geography (1,2,3) (P: Consent of instructor)
*May only count in one area.

Environmental: (In concentration area, a minimum of 3 s.h. must be above 3999.)
GEOG 1300. Weather and Climate (4) (F,S,SS) (FC:SC)
GEOG 2250. Earth Surface Systems (3) (F)
*GEOG 2300. Geography of Environmental Resources (3) (F)
GEOG 3220. Soil Properties, Surveys, and Applications (3) (F) (P: GEOG 2250)
GEOG 3230. Global Climates (3) (S) (P: GEOG 1300; MATH 1065; or consent of instructor)
*GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 3510. Physical Meteorology (3) (F) (P: GEOG 1300; MATH 1065; or consent of instructor)
GEOG 3520. Dynamic Meteorology (3) (S) (P: GEOG 1300; MATH 2172, PHYS 2360; or consent of instructor)
GEOG 3550. Principles of Synoptic Meteorology (3) (F) (P: GEOG 1300 or consent of instructor)
GEOG 4210. Fluvial and Hydrological Processes (3) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4220. Coastal Geography (3) (WI) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4230. Earth Surface Processes (3) (WI) (F) (P: GEOG 1300, 2250; or consent of instructor)
*GEOG 4270. Water Resources Management and Planning (3) (Same as PLAN 4270) (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4291, 4292, 4293. Supervised Study in Physical Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
GEOG 4510. Meteorological Instruments and Observation (3) (F) (P: GEOG 1300; MATH 1065; or consent of instructor)
GEOG 4520. Boundary Layer Meteorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4525. Dynamic Meteorology II (3) (F) (P: GEOG 3520; MATH 4331; or consent of instructor)
GEOG 4530. Micrometeorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4540. Coastal Storms (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4550. Applied Synoptic Meteorology: Analyses and Forecasting (3) (S) (P: GEOG 3550; or consent of instructor)
GEOG 4560. Urban Climatology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4570. Hydrometeorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4580. Radar and Satellite Meteorology (3) (S) (P: GEOG 1300, 3420; or consent of instructor)
GEOG 4590. Tropical Meteorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4900. Honors Research (3) (F,S) (P: Admission to GEOG honors program)
GEOG 5220. Physical Geography Field Experience (3) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 5281, 5282, 5283. Selected Topic in Physical Geography (1,2,3) (P: Consent of instructor)
*May only count in one area.
5. Minor and general electives to complete requirements for graduation.

BS in Applied Geography

Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum.*) - 42 s.h.

   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)

2. Core (Choose a minimum of 27 s.h. in geography above 2999, including a maximum of 3 s.h. of supervised study in each of the categories below.) - 43 s.h.

   ENGL 3820. Scientific Writing (3) (WI) (F,S) (P: ENGL 1200) or ENGL 3860. Introduction to Nonfiction Writing (3) (F,S) (P: ENGL 1200) or ENGL 3880. Writing for Business and Industry (3) (WI) (F,S,SS) (P: ENGL 1200) or ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
   GEOG 2400. Spatial Data Analysis (3) (F,S)
   GEOG 2410. Fundamentals of GIS (3) (F,S)
   GEOG 4801, 4802, 4803. Geography Internship (1,2,3) (F,S,SS) (P: Consent of GEOG internship director semester prior to internship)
   GEOG 4999. Geography Professional Seminar (1) (P: Consent of instructor)
   Geographic Information Science (Choose 9 s.h. from the following.):
   GEOG 3420. Remote Sensing of the Environment I (3) (F) (P: GEOG 2410 or equivalent)
   GEOG 3430. Geographic Information Systems I (3) (F,S) (P: GEOG 2410 or equivalent)
   GEOG 3450. Introduction to the Global Positioning System (3) (S) (P: GEOG 2410 or equivalent)
   GEOG 3460. GIS Applications Programming (3) (F) (P: GEOG 2410; BITE 2212 or CSCI 1610 or MIS 2223 or consent of instructor)
   GEOG 4150. Advanced Spatial Analysis (3) (F) (P: GEOG 2400, 2410; or consent of instructor)
   GEOG 4410. Advanced Cartographic Design and Production (3) (F,S) (P: GEOG 2410 or equivalent experience)
   GEOG 4420. Remote Sensing II (3) (S) (P: GEOG 3420 or consent of instructor)
   GEOG 4430. Geographic Information Systems II (3) (P: GEOG 3430 or consent of instructor)
   GEOG 4440. Coastal Applications of GIS (3) (F,S) (P: GEOG 2250, 2410; or consent of instructor)
GEOG 4450. GIScience, Society, and Technology (3) (S) (P: GEOG 2410, 3420, 3430; or consent of instructor)
GEOG 4460. Digital Terrain Analysis (3) (F) (P: GEOG 2250, GEOG 2410; or consent of instructor)
GEOG 4491, 4492, 4493. Supervised Study in Geographic Techniques (1,2,3) (F,S,SS)
GEOG 4900. Honors Research (3) (F,S) (P: Admission to GEOG honors program)
Human (Choose 9 s.h. from the following.):
GEOG 2003. Geography of the Global Economy (3) (F,S) (FC:SO)
GEOG 2019. Geography of Recreation (3) (F) (FC:SO)
GEOG 2100. World Geography: Developed Regions (3) (F,S,SS) (FC:SO)
GEOG 2110. World Geography: Less Developed Regions (3) (F,S,SS) (FC:SO)
**GEOG 2300. Geography of Environmental Resources (3) (F)
GEOG 3001. Historical Geography of the United States (3) (F)
GEOG 3003. Political Geography (3) (WI) (S) (FC:SO)
GEOG 3004. Urban Geography (3) (S)
GEOG 3049. Latin America (3) (WI) (FC:SO)
GEOG 3050. Africa (3) (WI) (S) (FC:SO)
GEOG 3051. Asia (3) (S) (FC:SO)
GEOG 3055. North Carolina (3) (F) (FC:SO)
GEOG 3056. Middle America (3) (FC:SO)
**GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 4050. Human Migration and Global Restructuring (3) (F) (FC:SO)
GEOG 4140. Research Methods in Human Geography (3) (S)
GEOG 4191, 4192, 4193. Supervised Study in Regional Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
**GEOG 4270. Water Resources Management and Planning (3) (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4310. Geography of Transportation and Trade (3) (S) (P: GEOG 2003)
GEOG 4315. Geographic Images (3) (F) (FC:SO)
GEOG 4320. Gender, Economy, and Development (3) (S)
GEOG 4325. Resources, Population, and Development (3) (WI) (FC:SO) (P: GEOG 2003 or consent of instructor)
GEOG 4330. Agricultural Geography (3) (F) (FC:SO)
GEOG 4335. Geography of Tourism (3) (S) (FC:SO)
GEOG 4340. Introduction to Medical Geography (3) (S) (P: GEOG 2410 or Consent of Instructor)
GEOG 4391, 4392, 4393. Supervised Study in Human Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
GEOG 4900. Honors Research (3) (F,S) (P: Admission to GEOG honors program)
GEOG 5391, 5392, 5393. Seminar in Human Geography (1,2,3) (P: Consent of instructor)
**May not count as an environmental course.

Environmental (Choose 9 s.h. from the following.):
GEOG 1300. Weather and Climate (4) (F,S,SS) (FC:SC)
GEOG 2250. Earth Surface Systems (3) (F)
***GEOG 2300. Geography of Environmental Resources (3) (F)
GEOG 3220. Soil Properties, Surveys, and Applications (3) (F) (P: GEOG 2250)
GEOG 3230. Global Climates (3) (S) (P: GEOG 1300; MATH 1065; or consent of instructor)
***GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 3510. Physical Meteorology (3) (F) (P: GEOG 1300; MATH 1065; or consent of instructor)
GEOG 3520. Dynamic Meteorology (3) (S) (P: GEOG 1300; MATH 2172; PHYS 2360; or consent of instructor)
GEOG 3550. Principles of Synoptic Meteorology (3) (F) (P: GEOG 3520; or consent of instructor)
GEOG 4210. Fluvial and Hydrological Processes (3) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4220. Coastal Geography (3) (WI) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4230. Earth Surface Processes (3) (WI) (F) (P: GEOG 1300, 2250; or consent of instructor)
***GEOG 4270. Water Resources Management and Planning (3) (Same as PLAN 4270) (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4291, 4292, 4293. Supervised Study in Physical Geography (1,2,3) (F,S,SS) (P: Consent of instructor)
GEOG 4510. Meteorological Instruments and Observation (3) (F) (P: GEOG 1300; MATH 1065; or consent of instructor)
GEOG 4520. Boundary Layer Meteorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4525. Dynamic Meteorology II (3) (F) (P: GEOG 3520; MATH 4431; or consent of instructor)
GEOG 4530. Micrometeorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4540. Coastal Storms (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4550. Applied Synoptic Meteorology: Analyses and Forecasting (3) (S) (P: GEOG 3550; or consent of instructor)
GEOG 4560. Urban Climatology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4570. Hydrometeorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4580. Radar and Satellite Meteorology (3) (S) (P: GEOG 1300, 3420; or consent of instructor)
GEOG 4590. Tropical Meteorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4900. Honors Research (3) (F,S) (P: Admission to GEOG honors program)
GEOG 5220. Physical Geography Field Experience (3) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 5281, 5282, 5283. Selected Topic in Physical Geography (1,2,3) (P: Consent of instructor)
Electives (Choose 3 s.h. from the following.):
GEOG 1000. People, Places, and Environments (3) (F,S,SS) (FC:SO)
GEOG 1250. The Water Planet (3) (F,S) (FC:SO)
GEOG 4901. Senior Honors Thesis (3) (F,S) (P: GEOG 4900 with a grade of B or higher)
May choose any GEOG course listed that is not being counted toward the degree.
3. Concentration Area (Choose an additional 6 s.h. in either human or environmental geography, as listed above. If concentration area is environmental geography, a minimum of 3 s.h. must be above 3999) - 6 s.h.

4. Minor - 24 s.h.
   Selected from aerospace, biology, business administration, computer science, economics, geology, industrial technology, information processing, leisure systems studies, military science, planning, public administration, statistics, or any other appropriate minor with consent of the dept chair.

5. Electives to complete requirements for graduation.

BS in Applied Atmospheric Science

Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum.) - 42 s.h.
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   PHYS 1251, 1261. General Physics Laboratory (1,1) (F,S,SS) (FC:SC) (C for 1251: PHYS 1250 or 2350; C for 1261: 1260 or 2360)
   PHYS 2350, 2360. University Physics (4,4) (F,S,SS) (FC:SC) (P: MATH 2121 or 2171; P for PHYS 2360: PHYS 2350)

2. Core - 38 s.h.
   GEOG 1300. Weather and Climate (4) (F, S)
   GEOG 2250. Earth Surface Systems (3) (F)
   GEOG 2400. Spatial Data Analysis (3) (F,S)
   GEOG 2410. Fundamentals of GIS (3) (F,S) (Formerly GEOG 3410)
   GEOG 3230. Global Climates (3) (S) (P: GEOG 1300, MATH 1065; or consent of instructor)
   GEOG 3420. Remote Sensing of the Environment I (3) (F) (P: GEOG 2410)
   GEOG 3510. Physical Meteorology (3) (F) (P: GEOG 1300, MATH 1065; or consent of instructor)
   GEOG 3520. Dynamic Meteorology (3) (S) (P: GEOG 1300, MATH 2172; PHYS 2360; or consent of instructor)
   GEOG 3550. Principles of Synoptic Meteorology (3) (F) (P: GEOG 3520; or consent of instructor)
   GEOG 4510. Meteorological Instruments and Observations (3) (F) (P: GEOG 1300, MATH 1065; or consent of instructor)

***May not count as a human course.***
GEOG 4525. Dynamic Meteorology II (3) (F) (P: GEOG 3520, MATH 4331; or consent of instructor)
GEOG 4550. Applied Synoptic Meteorology: Analyses and Forecasting (3) (S) (P: GEOG 3550; or consent of instructor)
GEOG 4999. Geography Professional Seminar (1) (P: Consent of instructor)

3. Math Cognates - 18-20 s.h.

MATH 1083. Introduction to Functions (3, F,S,SS) (FC: MA) (May not be taken by students who have successfully completed MATH 1074 or MATH 1085) (P: MATH 1065 with a minimum grade of C) or MATH 1085. Pre-Calculus Mathematics (5) (F,S,SS) (FC: MA) (May not be taken by students who have successfully completed MATH 1074) (P: MATH 1065 with a minimum grade of C) 
MATH 2171. Calculus I (4, F,S,SS) (FC: MA) (P: Minimum grade of C in any of MATH 1083, 1085, or 2122)
MATH 2172. Calculus II (4, F,S,SS) (FC: MA) (P: MATH 2171)
MATH 2173. Calculus III (4, F,S,SS) (FC: MA) (P: MATH 2172)
MATH 4331. Introduction to Ordinary Differential Equations (3, F,S) (P: MATH 2173)

4. Geospatial Technologies Electives: (Choose from the following) - 6 s.h.

GEOG 3430. Geographic Information Systems I (3) (S) (P: GEOG 2410 or equivalent)
GEOG 3450. Introduction to the Global Positioning System (3, F,S) (P: GEOG 2410 or equivalent)
GEOG 3460. GIS Applications Programming (3, F) (P: GEOG 2410; ASIP 2212 or CSCI 1610 or MIS 2223 or consent of instructor)
GEOG 4150. Advanced Spatial Analysis (3, F) (Formerly GEOG 3400) (P: GEOG 2400, 2410; or consent of instructor)
GEOG 4410. Advanced Cartographic Design and Production (3, F,S) (P: GEOG 2410 or equivalent experience)
GEOG 4420. Remote Sensing II (3, S) (P: GEOG 3420 or consent of instructor)
GEOG 4430. Geographic Information Systems II (3, S) (P: GEOG 3430 or consent of instructor)
GEOG 4440. Coastal Applications of GIS (3, F,S) (P: GEOG 2250, 2410; or consent of instructor)
GEOG 4450. GIScience, Society, and Technology (3, S) (P: GEOG 2410, 3420, 3430; or consent of instructor)
GEOG 4460. Digital Terrain Analysis (3, F) (P: GEOG 2250, 2410; or consent of instructor)

5. Atmospheric Science Electives (Choose from the following) - 6 s.h.

CHEM 1150,1151. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC: SC) (P: Chemistry placement test or passing grade in CHEM 0150; P/C: MATH 1065; C for 1150: CHEM 1151; C for 1151: CHEM 1150)
GEOG 4520. Boundary Layer Meteorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4530. Micrometeorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4540. Coastal Storms (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4560. Urban Climatology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4570. Hydrometeorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4580. Radar and Satellite Meteorology (3) (S) (P: GEOG 1300, GEOG 3420; or consent of instructor)
GEOG 4590. Tropical Meteorology (3) (F) (P: GEOG 1300; or consent of instructor)

6. Geography Electives (Choose from the following) - 6 s.h.

GEOG 3220. Soil Properties, Surveys, and Applications (3) (F) (P: GEOG 2250)
GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 4210. Fluvial and Hydrological Processes (3) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4220. Coastal Geography (3) (WI) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4230. Earth Surface Processes (3) (WI) (F) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4270. Water Resources Management and Planning (3) (Same as PLAN 4270) (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4801, 4802, 4803. Geography Internship (1,2,3) (F,S,SS) (P: Consent of director of geography internships; consent should be obtained during the semester prior to internship)

7. General electives to complete requirements for graduation.

BS in Geographic Information Science and Technology

Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum (See Section 4, Foundations Curriculum Requirements for All Baccalaureate Degree Programs), including those listed below - 42 s.h.

   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)

2. Common Core - 31 s.h.

   GEOG 2400. Spatial Data Analysis (3) (F,S)
GEOG 2410. Fundamentals of GIS (3) (F,S) (Formerly GEOG 3410) or PLAN 3051.
Introduction to GIS in Planning (3) (F)
GEOG 3420. Remote Sensing of the Environment I (3) (F) (P: GEOG 2410 or equivalent)
GEOG 3430. Geographic Information Systems I (3) (F,S) (P: GEOG 2410)
GEOG 3450. Introduction to the Global Positioning System (3) (S) (P: GEOG 2410 or equivalent)
GEOG 3460. GIS Applications Programming (3) (F) (P: GEOG 2410; ASIP 2212 or
CSCI 1610 or ITEC 2000 or MIS 2223 or consent of instructor)
GEOG 4410. Advanced Cartographic Design and Production (3) (F,S) (P: GEOG 2410 or equivalent)
GEOG 4420. Remote Sensing II (3) (S) (P: GEOG 3420 or consent of instructor)
GEOG 4430. Geographic Information Systems II (3) (S) (P: GEOG 3430 or consent of instructor)
GEOG 4450. GIScience, Society, and Technology (3) (S) (P: GEOG 2410, 3420, 3430; or consent of instructor)
GEOG 4999. Geography Professional Seminar (1) (F, S) (P: Consent of instructor)

3. GIS electives (Choose from the following) - 6 s.h.
GEOG 4150. Advanced Spatial Analysis (3) (F) (Formerly GEOG 3400) (P: GEOG 2400, 2410; or consent of instructor)
GEOG 4440. Coastal Applications of GIS (3) (F,S) (P: GEOG 2250, 2410; or consent of instructor)
GEOG 4460. Digital Terrain Analysis (3) (F) (P: GEOG 2250, 2410; or consent of instructor)
GEOG 4540. Coastal Storms (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4580. Radar and Satellite Meteorology (3) (P: GEOG 1300, 3420; or consent of instructor)
GEOG 4491,4492,4493. Supervised Study in Geographic Techniques (1,2,3) (F,S,SS) (P: Consent of instructor)
GEOG 4801, 4802, 4803. Geography Internship (1,2,3) (F,S,SS) (P: Consent of director of geography internships; consent should be obtained during the semester prior to the internship) A maximum of 3 s.h. can be used to meet the degree requirement.
PLAN 4021. Advanced GIS Applications in Planning (3) (S) (P: PLAN 3051 or GEOG 2410 or consent of instructor)

4. Environmental and Human Geography (Choose from the following; a minimum of 3 s.h. must be above 2999) - 15 s.h.
GEOG 1300. Weather and Climate (4) (F,S,SS) (FC:SC)
GEOG 2003. Geography of the Global Economy (3) (F,S) (FC:SO)
GEOG 2019. Geography of Recreation (3) (F) (FC:SO)
GEOG 2250. Earth Surface Systems (3) (F)
GEOG 2300. Geography of Environmental Resources (3) (F)
GEOG 3001. Historical Geography of the United States (3)
GEOG 3003. Political Geography (3) (WI) (S) (FC:SO)
GEOG 3004. Urban Geography (3) (F)
GEOG 3049. Latin America (3) (WI*) (FC:SO)
GEOG 3050. Africa (3) (WI) (S) (FC:SO)
GEOG 3051. Asia (3) (S) (FC:SO)
GEOG 3220. Soil Properties, Surveys, and Applications (3) (F) (P: GEOG 2250)
GEOG 3230. Global Climates (3) (S) (P: GEOG 1300, MATH 1065; or consent of instructor)
GEOG 3250. Environmental Hazards (3) (F) (P: GEOG 1300 or 2250)
GEOG 3510. Physical Meteorology (3) (F) (P: GEOG 1300, MATH 1065; or consent of instructor)
GEOG 4210. Fluvial and Hydrological Processes (3) (S) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4220. Coastal Geography (3) (WI) (S) (Formerly GEOG 3002) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4230. Earth Surface Processes (3) (WI) (F) (P: GEOG 1300, 2250; or consent of instructor)
GEOG 4270. Water Resources Management and Planning (3) Same as PLAN 4270 (P: GEOG 1000 or 1250; or PLAN 1900)
GEOG 4310. Geography of Transportation and Trade (3) (S) (P: GEOG 2003)
GEOG 4315. Geographic Images (3) (F) (FC:SO) (Formerly GEOG 3300)
GEOG 4320. Gender, Economy, and Development (3) (S) (P: Consent of instructor)
GEOG 4325. Resources, Population, and Development (3) (WI) (FC:SO) (Formerly GEOG 3000) (P: GEOG 2003 or consent of instructor)
GEOG 4330. Agricultural Geography (3) (WI*) (F) (FC:SO)
GEOG 4335. Geography of Tourism (3) (FC:SO)
GEOG 4345. Human Migration and Global Restructuring (3) (F)
GEOG 4510. Meteorological Instruments and Observation (3) (F) (P: GEOG 1300, MATH 1065; or consent of instructor)
GEOG 4530. Micrometeorology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4560. Urban Climatology (3) (F) (P: GEOG 1300; or consent of instructor)
GEOG 4570. Hydrometeorology (3) (S) (P: GEOG 1300; or consent of instructor)
GEOG 4590. Tropical Meteorology (3) (F) (P: GEOG 1300; or consent of instructor)

5. Cognates (Choose from the following) - 21 s.h.

CSCI 1001. Introduction to Computer Science (3) (F,S)
CSCI 2310, 2311. Algorithmic Problem Solving and Programming Laboratory (4,0) (F,S) (P: MATH 1065; C for 2310: CSCI 2311; C for 2311: CSCI 2310) CSCI/MATH 2427.
Discrete Mathematical Structures (3) (F,S) (P: MATH 1065 or 1066)
CSCI 2600. Introduction to Digital Computation (3) (S) (P: MATH 1065 or 1066)
CSCI 3200. Data Structures and Their Applications (4) (F) (P: CSCI 2310, 2311)
CSCI 3700. Database Management Systems (3) (F,S) (P: CSCI 3200 or 3310)
ICTN 1500, 1501. PC Hardware (3,0) (F,S) (P: MATH 1065 or higher)
ICTN 2000. Introduction to Telecommunications (3) (F)
ICTN 2154, 2155. Digital Communication Systems (3,0) (F,S) (P: ICTN 1500)
ICTN 2158, 2159. Computer Networking Technology (3,0) (F,S) (P: ICTN 2154)
ICTN 2510, 2511. Network Environment I (3,0) (F) (P: ICTN 1500)
ICTN 2530, 2531 Network Environment II (3,0) (F,S) (Formerly ICTN 3530, 3531) (P: ICTN 1500)
ICTN 2900, 2901. Introduction to Network Security (3,0) (F) (P: ICTN 2154)
ICTN 3540, 3541. Network Environment III (3,0) (F) (P: ICTN 2510, 3530)
MATH 1066. Applied Mathematics for Decision Making (3) (F,S,SS) (FC:MA) (P: Appropriate score on math placement test or approval of the dept chair)
MATH 1083. Introduction to Functions (3) (F,S,SS) (FC:MA) (P: MATH 1065 with a minimum grade of C)
MATH 2119. Elements of Calculus (3) (F,S,SS) (FC:MA) (P: MATH 1065 with a minimum grade of C)
MATH 2127. Basic Concepts of Mathematics (3) (F,S,SS) (FC:MA) (P: Appropriate score on math placement test)

6. Electives to complete requirements for graduation - 11 s.h.

http://www.ecu.edu/cs-acad/ugcat/geography.cfm

BS in Urban and Regional Planning

Jerry Weitz, Program Director, A-215 Brewster Building

Students entering the Planning Program are encouraged to declare their major as soon as possible in accordance with university requirements. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum.) - 42 s.h.

   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)

2. Core - 33 s.h.

   PLAN 3020. Environmental Planning (3) (F)
   PLAN 3021. Introduction to Planning Techniques (3) (F)
   PLAN 3022. History and Theory of Planning (3) (WI) (F)
PLAN 3030. Urban and Regional Planning (3)
PLAN 3031. Quantitative Analysis in Planning (3) (S) (P: PLAN 3021 or consent of instructor)
PLAN 3032. Planning Legislation and Administration (3) (WI) (S)
PLAN 3051. Introduction to GIS in Planning (3) (F)
PLAN 4003. Urban Form and Design (3) (F)
PLAN 4096. Planning Studio (3) (F,S) (P: PLAN 3022; PLAN 3051; or consent of instructor)
PLAN 4099. Practicum in Planning (3) (F,S) (WI)
GEOG 2400. Spatial Data Analysis (3) (F,S); or MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) (P: MATH 1065 or equivalent); or MATH 2283. Statistics for Business (3) (F,S,SS) (P: MATH 1065 or MATH 1066 or equivalent)

3. Area of emphasis (In consultation with the planning advisor, choose one area from the following.) - 9 s.h.

Coastal Planning and Development
PLAN 4015. Emergency Management Planning (3) (F,SS)
PLAN 5025. Coastal Area Planning and Management (3) (P: Consent of instructor)
PLAN 5045. Environmental Resources Planning and Management (3) or PLAN 5065. Land Use Planning (3) (F)

Community Planning and Development:
PLAN 3015. Planning for Circulation (3) (S) or PLAN 5985. Historic Preservation Planning (3)
PLAN 4025. Housing and Neighborhood Planning (3) (F)
PLAN 5065. Land Use Planning (3) (F).

4. Electives – (Choose any additional 6 s.h. from the following)

PLAN 1900. Planning for the Human Environment (3) (F, S, SS)
PLAN 3015. Planning for Circulation (3) (S)
*PLAN 3018, 3028, 3038. Planning Internship (1,2,3) (F,S,SS) (P: Completion of a minimum of 9 s.h. of planning courses and consent of internship coordinator.
PLAN 3041. Computer Applications in Planning (3) (F)
PLAN 4015. Emergency Management Planning (3) (F,SS)
PLAN 4021. Advanced GIS Applications in Planning (3) (S) (P: PLAN 3051 or GEOG 2410 or consent of instructor)
PLAN 4041. GPS Applications in Planning (3) (S,SS) (P: PLAN 3051 or consent of instructor)
PLAN 4046. Planning and Design Studio (3) (F,S)
PLAN 4050. World Architecture and Urbanism (3) (S)
PLAN 4270. Water Resources Management and Planning (3) (P: PLAN 1900; or GEOG 1000 or 1250)
PLAN 4305. Ecological Landscape Planning (3) (P: GEOG 2410 or PLAN 3051 or consent of instructor)
PLAN 5025. Coastal Area Planning and Management (3) (P: Consent of instructor)
PLAN 5045. Environmental Resources Planning and Management (3)
PLAN 5065. Land Use Planning (3) (F)
*PLAN 5121. Problems in Planning (2,3) (P: Consent of instructor)
*PLAN 5131. Problems in Planning (2,3) (WI) (P: Consent of instructor)
PLAN 5985. Historic Preservation Planning (3)
*May count a maximum of 3 s.h. from PLAN 3018, 3028, 3038, and a maximum of 3 s.h. from 5121, 5131 toward the degree.

5. Minor or concentration area (In consultation with the planning advisor, choose a minor from another discipline or two concentration areas from below, with a minimum of 9 s.h. chosen from each of the two areas.). 24 s.h.

Accounting and Public Finance:
ACCT 2101. Survey of Financial and Managerial Accounting (3) (F,S) (P: MATH 1065 or 1066)
ECON 4214. Public Finance (3) (FC:SO) (P: ECON 2133, 3144)
FINA 3004. Survey of Financial Management (3) (F,S) (P: ACCT 2101 or 2401; ECON 2113; MATH 2283)
POLS 3242. Municipal Policy and Administration (3)
POLS 3253. Government Fiscal Administration (3) (S) (RP: POLS 1010)

Coastal Resources:
BIOL 3660. Introduction to Marine Biology (3) (F,S,SS) (P/C: BIOL 2250, 2251)
BIOL 3661. Introduction to Marine Biology Laboratory (1) (F,S) (C: BIOL 3660)
GEOG 3002. Coastal Geography (3) (WI) (S) (P: GEOG 1200 or 3200 or consent of instructor)
GEOL 1550. Oceanography (4) (S) (FC:SC)
HIST 5520. Maritime History of the Western World Since 1815 (3)
SOCI 3410. Introduction to Maritime Sociology (3) (FC:SO) (P: ANTH 1000 or SOCI 2110)

Community Health:
EHST 2110. Introduction to Environmental Health Science (3) (F,S)
EHST 3600. Air Pollution (3) (F) (P: EHST 2110 or consent of instructor)
EHST 5800. Solid and Hazardous Waste Management (3) (P: CHEM 1160, 1161)
HLTH 3001. Principles of Community Health Education (2) (S)
HLTH 3030. Health Behavior (3) (WI) (S) (P: PSYC 1000)
HPRO 4300. Survey of the Allied Health Professions (2)

Decision Science:
MIS 2223. Introduction to Computers (3) (F,S,SS)
MIS 3063. Introduction to Management Information Systems (3) (F,S,SS) (P: MIS 2223)
MIS 4103. Decision Support Systems (3) (F,S) (P: MIS 3063)
OMGT 3123. Operations and Supply Chain Management (3) (F,S,SS) (P: MATH 2228 or 2283; MIS 2223.
OMGT 3223. Business Decision Modeling (3) (F,S,SS) (P: Minimum grade of C in MIS 2223, MATH 1066 2119 or 2121 or 2171, 2283)

Economic Development:
ECON 3144. Intermediate Microeconomics (3) (F,S) (FC:SO) (P: ECON 2113)
ECON 3244. Intermediate Macroeconomics (3) (F,S) (FC:SO) (P: ECON 2133)
ECON 3353. Economics of Underdeveloped Countries (3) (FC:SO) (P: ECON 2133)
ECON 4020. Industrial Organization (3) (WI) (S) (FC:SO) (P: ECON 3144)
ECON 4850. Resource Economics (3) (FC:SO) (P: ECON 2133, 3144)

Environmental Resources:
BIOL 1060. Environmental Biology (4) (F,S,SS) (FC:SC)
ECON 4850. Resource Economics (3) (FC:SO) (P: ECON 2133, 3144)
GEOG 2300. Geography of Environmental Resources (3) (F)
GEOL 1700. Environmental Geology (4) (F,S) (FC:SC)
PHYS 1050. Physics and the Environment (4) (F,S,SS) (FC:SC)
POLS 3256. Environmental Politics (3) (F)

Historic Preservation and Design:
CMGT 2210, 2211. Construction and Civil Materials (3,0) (F,S) (P: Minimum overall GPA of 2.0; majors and minors only; P/C: MATH 1065 or 1066)
HIST 3205. History of American Urban Life (3)
HIST 5920. Techniques of Museum and Historic Site Development (3)
HIST 5985. Historic Preservation Planning (3)
IDSN 2700. Historic Interiors I: 3000 BC Through Mid-Nineteenth Century (3) (WI) (S)
IDSN 2750. Historic Interiors II: Late Nineteenth and Twentieth Centuries (3) (WI) (F)
IDSN 4750. Interior Design for Adaptive Reuse (3) (WI) (S) (P: IDSN 3600, 3700)

International Development:
ECON 3353. Economics of Underdeveloped Countries (3) (FC:SO) (P: ECON 2133)
ECON 4373. International Trade (3) (S) (FC:SO) (P: ECON 2133, 3144)
GEOG 2003. Geography of the Global Economy (3) (F,S) (FC:SO)
POLS 4360. Politics of Developing Areas (3) (FC:SO)

Land Use and Real Estate:
ANTH 4260. Cultural Ecology (3) (FC:SO) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
FINA 3554. Principles of Real Estate (3) (F,S) (P: ACCT 2401; ECON 2133)
FINA 4564. Real Estate Appraisal (3) (F) (P: FINA 3554)
POLS 3241. Urban Political Systems (2) (S)
SOCI 3225. Urban Sociology (3) (FC:SO) (P: SOCI 2110)

Personnel Management and Administration:
MGMT 3202. Fundamentals of Management (3) (F,S,SS) (P: ECON 2113)
MGMT 4342. Organizational Change and Development (3) (F) (P: MGMT 3202 or 3302)
MGMT 4402. Human Resource Management (3) (F,S) (P: MGMT 3202 or 3302)
POLS 3242. Municipal Policy and Administration (3) (RP: POLS 3241)
POLS 3252. Public Administration (3) (F) (FC:SO)

Recreation:
GEOG 2019. Geography of Recreation (3) (F) (FC:SO)
RCLS 2000. Introduction to Leisure Services (3) (F,S)
RCLS 2601. Leisure in Society (3) (FC:SO)
RCLS 3300. Outdoor Programming (3) (S) (P: Declared RCLS major or minor; RCLS 2000)

Societal Issues and Policies:

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ANTH 2005. Environmental Anthropology (3) (S) (FC:SO)
SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)
SOCI 2111. Modern Social Problems (3) (F,S,SS) (FC:SO) (P: SOCI 2110)
SOCI 3225. Urban Sociology (3) (FC:SO) (P: SOCI 2110)
SOCI 3289. Community Organization (3) (S) (FC:SO) (P: SOCI 2110)
SOCI 4345. Racial and Cultural Minorities (3) (F) (FC:SO) (P: ANTH 1000 or SOCI 2110)
SOCI 4347. Social Inequality (3) (S) (FC:SO) (P: SOCI 2110)

6. Electives to complete degree requirements for graduation.

NOTE: Excluding foundations curriculum requirements, no one course may be used to fulfill two or more degree requirements.

Planning Minor

The planning minor 24 s.h. of credit as follows:

1. Core - 15 s.h.

   PLAN 1900. Planning for the Human Environment (3) (F, S, SS)
   PLAN 3020. Environmental Planning (3) (F)
   PLAN 3021. Introduction to Planning Techniques (3) (F)
   PLAN 3030 Urban and Regional Planning (3) (F)
   PLAN 3032. Planning Legislation and Administration (3) (WI) (S)

2. PLAN Electives - 9 s.h.

Bachelor’s and Accelerated MBA Program

Planning majors who are interested in careers in private or public sector management, may complete the BS in urban and regional planning, and if qualified, may complete the master of business administration in one additional year. (See the Bachelor’s and Accelerated MBA Program section under the College of Business in the undergraduate catalog for further details)

Certificate in Urban Design

This certificate provides students with specialized competencies in urban design and prepares them to engage effectively in professional practice in the public and the private sectors. The certificate is open to students pursuing an undergraduate degree at ECU. Students gain interdisciplinary knowledge regarding physical, environmental, and social planning issues that confront contemporary cities. The course of study for the certificate enhances the creative, visualization, and graphic abilities required for the design and planning professions. Students engage in real-world design projects that deal with adaptive reuse, streetscapes, urban regeneration, downtown revitalization, historic preservation, public squares, and smart

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community planning, qualify for the award, students must maintain a minimum of 3.0 GPA in the certificate courses. The certificate requires a minimum of 15 s.h. of credit as follows:

1. Core Courses:

   PLAN 4003. Urban Form and Design (3) (S)
   PLAN 4046. Planning and Design Studio (3) (F,S)
   PLAN 4050. World Architecture and Urbanism (3) or PLAN 5985. Historic Preservation Planning (3)

2. Elective Courses (two courses from the following):

   ART 4950. Twentieth Century Architecture (3) (P: ART 1906, 1907)
   DESN 3030, 3031. Architectural Drafting (3,0) (F,S) (P: DESN 2036 or IDSN 2281; ITEC 2080; or program coordinator approval)
   DESN 3038, 3039. Sustainable Design (3,0) (S) (P: BIOL 1060, 1061; DESN 3030; GEOL 1700; ITEC 2090, 3300; PSYC 3241; or program coordinator approval)
   GEOG 3004. Urban Geography (3) (F)
   IDSN 4750. Interior Design for Adaptive Reuse (3) (WI) (S) (P: IDSN 3600, 3700) (Formerly IDMR 4750).
   PLAN 3020. Environmental Planning (3) (F) (for non Planning majors and minors)
   PLAN 3051. Introduction to GIS in Planning (3) (F,S) (for non-Planning majors and minors)
   PLAN 4021. Advanced GIS Applications in Planning (3)
   PLAN 4050. World Architecture and Urbanism (3)
   PLAN 5985. Historic Preservation Planning (3)

http://www.ecu.edu/cs-acad/ugcat/coursesP.cfm#plan

**PLAN: Planning**

1900. Planning for the Human Environment (3) (F,S,SS)
   Theories, concepts, and methodologies used to plan for man and environment. Planning process examined in context of urban, regional, environmental, site, and institutional scenarios.

3015. Planning for Circulation (3) (S)
   Theories and principles involved in planning for circulatory systems in urban and regional settings. Historical aspects of circulation, overview of planning concerns, and discussion of practice of planning as related to transportation.

3018, 3028, 3038. Planning Internship (1,2,3) (F,S,SS)
Minimum of 50 hours of professional work responsibility per semester hour of credit. P: Completion of a minimum of 9 s.h. of planning courses and consent of internship coordinator based upon student’s submitting written proposal indicating applicability of planning internship to his or her educational and professional objectives. Supervised experience with professional planning personnel in approved agency or organization.

3020. Environmental Planning (3) (F)
Concepts and issues of environment in relation to planning and management principles and practices.

3021. Introduction to Planning Techniques (3) (F)
2 lecture and 2 lab hours per week. Communication, computation, data analysis, and other analytical techniques for effective urban and regional planning.

3022. History and Theory of Planning (3) (WI) (F)
Past and present planning concepts, methods, and theories. In-depth examination of evolution of cities and history of planning in US.

3030. Urban and Regional Planning (3)
Philosophy, theories and principles involved in urban and regional planning, including an analysis of problems confronting urban areas, and the development of regions and their resources.

3031. Quantitative Analysis in Planning (3) (S)
P: PLAN 3021 or consent of the instructor. Basic application in demographic, economic, land use, and transportation methods in policy context to develop effective community planning.

3032. Planning Legislation and Administration (3) (WI) (S)
State enabling acts, zoning ordinances, subdivision regulations, and other legislative bases essential to effective planning. Administrative methods and theory presented in context of planning practice.

3041. Computer Applications in Planning (3) (F)
2 lecture and 2 lab hours per week. Various computer hardware, software, and operating systems for effective planning and design at urban and regional scales.

3051. Introduction to GIS in Planning (3) (F)
2 hours lecture and 2 hours lab per week. Overview of principles and applications of GIS in planning. Focuses on use of GIS to facilitate decision making in planning process.

4003. Urban Form and Design (3) (S)
General types, scales, features, and determinants of urban form. Design concepts, problems, and potentials associated with urban development projects of varying scales.

4015. Emergency Management Planning (3) (F,SS)
Case studies examine emergency management planning and techniques. Emphasis on mitigation of, preparation for, response to, and recovery from natural and technological disasters.

4021. Advanced GIS Applications in Planning (3) (S)
2 lecture and 2 lab hours per week. P: PLAN 3051 or GEOG 2410 or consent of instructor. Overview of advanced principles and applications of GIS in planning using vector, raster, and TIN data models. Focuses on use of GIS to facilitate and support decision-making in planning process.

4025. Housing and Neighborhood Planning (3) (F)
Substantive and methodological issues related to housing and neighborhood planning. Current local, state, and federal statutory planning requirements in housing and community development examined in relationship to planning process.

4041. GPS Applications in Planning (3) (S,SS)
2 lecture and 1 lab hours per week. P: PLAN 3051 or consent of instructor. Provides an in-depth survey of Global Positioning Systems (GPS) technology developments, applications, concepts, and operation. Emphasis is on field data collection, processing, and integration with GIS to provide accurate mapping for many essential decision-making and planning applications.

4046. Planning and Design Studio (3) (F,S)
2 lecture and 2 lab hours per week. Analytical and practical skills involved in real world planning, development, and management.

4050. World Architecture and Urbanism (3) (S)
Survey of world architectural styles and urban patterns from antiquity to present time.

4096. Planning Studio (3) (F,S)
4 studio hours per week. P: PLAN 3022; PLAN 3051; or consent of instructor. Collaborative studio investigating an advanced issue in planning. Work is conducted in teams, often for a community client.

4099. Practicum in Planning (3) (WI) (F,S)
1 lecture and 2 lab hours per week. Culmination of undergraduate preparation for professional practice. Planning process used to prepare high-quality planning document.

4270. Water Resources Management and Planning (3) Same as GEOG 4270
P: PLAN 1900; or GEOG 1000 or 1250. Spatial and temporal characteristics of water. Consideration of hydrologic, engineering, economic, and institutional aspects of water management.

4305. Ecological Landscape Planning (3)
P: GEOG 2410 or PLAN 3051 or consent of instructor. Theory and methods of landscape planning with a focus on creating sustainable, holistic landscapes.

5025. Coastal Area Planning and Management (3) (S)
2 classroom and 3 studio hours per week. P: Consent of instructor. Conceptual approach to planning and management problems, policies, and practices in coastal area.

5045. Environmental Resources Planning and Management (3)
Frame of reference for studying natural resources for purpose of development.

5065. Land Use Planning (3) (S)
2 lecture and 2 lab hours per week. Social, economic, physical, and environmental aspects of urban land use and planning. Other tools for effective planning.

5121, 5131. Problems in Planning (2,3) (5131:WI)
3 hours per week per credit hour. P: Consent of instructor. Analysis of specific problem in planning to be approved prior to registration.

5985. Historic Preservation Planning (3) Same as HIST 5985
Historic preservation planning. Examines theoretical, legal, historical, and design bases of preservation planning.

PLAN Banked Courses
3000. Urban Planning (3)
3010. Regional Planning (3)
4001. Field Methods in Planning (3)
Agenda Item VIII

College of Health and Human Performance

Department of Recreation and Leisure Studies

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BS in Athletic Training

The athletic training degree program is a Commission on Accreditation of Athletic Training Education (CAATE) accredited undergraduate program based on a minimum of 126 s.h.: 42 s.h. of foundations curriculum courses, 70 s.h. in the major area, and elective hours which can result in an approved minor or prepare one for further graduate study in an allied health profession such as physical therapy or a physician assistant program. Upon successful completion of this degree, the student will be eligible to sit for the Board of Certification exam. There is a strong clinical aspect of the program involving a minimum of 800 supervised hours under a certified athletic trainer. Admission to the university does not guarantee admission to the athletic training degree, as it is restricted by an imposed student-to-clinical instructor ratio. Candidates are required to submit a separate application process, and it is due August 15 prior to the fall semester you wish to begin your degree. See program web site for details. Competitive admission is based upon assessments of the applicant’s academic abilities, knowledge, dedication to the profession, and commitment to the health care of others. Eligible applicants must have a minimum cumulative and semester 2.0 GPA, completed ATEP 1800, 2810, 2811 with a minimum grade of C, current cardiopulmonary resuscitation (CPR) and first aid certification from an approved provider, successfully completed a two-semester (fall and spring, consecutively) candidacy period, passed a health screening/physical examination, a letter of formal application on file, and an interview with the athletic training faculty and staff. There are written technical standards for admission that can be found in the Athletic Training Student Handbook and the program’s web site. Athletic training students are required to earn a minimum course grade of C in all athletic training courses. A minimum semester and cumulative GPA of 2.0 must be sustained throughout the program. All students in the degree are required to maintain current CPR certification, Hepatitis B immunization (or waiver), and liability insurance for the duration of their involvement in the curriculum. Verification of CPR certification and liability insurance are required each academic year. Specific requirements are stated in the Athletic Training Student Handbook. The athletic training degree requires a minimum of 800 practical, supervised clinical hours under the direction of a certified athletic trainer. The candidacy period does not count toward the total hours required. Transfer students must meet
the above criteria. No transfer athletic training classes will be accepted, but other course work may be allowed on an individual basis. Minimum degree requirement is **126 s.h.** of credit as follows:

1. **Foundations curriculum requirements** (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) including those listed below - 42 s.h.

   - **BIOL 1050. General Biology (3)** (F,S,SS) (FC:SC)
   - **BIOL 1051. General Biology Laboratory (1)** (F,S,SS) (FC:SC)
   - **HLTH 1000. Health in Modern Society (2)** (F,S,SS) (FC:HL)
   - **MATH 1065. College Algebra (3)** (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   - **PHYS 1250. General Physics (3)** (F,S,SS) (FC:SC) (P: MATH 1065)
   - **PHYS 1251. General Physics Laboratory (1)** (F,S,SS) (FC:SC) (C: PHYS 1250 or 2350)
   - **PSYC 1000. Introductory Psychology (3)** (F,S,SS) (FC:SO)

2. **Core - 70 s.h.**

   - **ATEP 1800. Orientation to Athletic Training (1)** (F) (P: Admission to candidacy period of athletic training curriculum)
   - **ATEP 2800. Medical Nomenclature for Human Performance (2)** (F, S, SS)
   - **ATEP 2810. Principles of Athletic Training (3)** (S) (C: Current participation in candidacy aspect of the athletic training program; first aid and CPR certification; C: ATEP 2811; RC: BIOL 2130; EXSS 2850)
   - **ATEP 2811. Principles of Athletic Training (0)** (S) (P: Current participation in candidacy period of athletic training program or consent of instructor; first aid and CPR certification; C: ATEP 2810; RC: BIOL 2130; EXSS 2850)
   - **ATEP 3200. Field Experience in Athletic Training I (1)** (F) (C: Current participation in the athletic training curriculum; ATEP 3810)
   - **ATEP 3201. Basic Rehabilitation Techniques in Athletic Training (2)** (S) (P: Athletic Training major; C: ATEP 3820)
   - **ATEP 3250, 3251. Sports Medicine Treatment Modalities (3,0)** (F) (P: ATEP 3810 or consent of instructor)
   - **ATEP 3270. Pathology and General Medicine in Sport (3)** (S) (P: BIOL 2130 or 2140 or 2150)
   - **ATEP 3271. Clinical Experience in Medicine (1)** (F,S,SS) (P: ATEP 3200, 3270)
   - **ATEP 3280, 3281. Therapeutic Rehabilitation in Sports Medicine (3,0)** (S) (P: ATEP 3250, 3251; or consent of instructor)
   - **ATEP 3350. Concepts in Pharmacology (3)** (F)
   - **ATEP 3400. Clinical Experience in an Equipment Intensive Sport (2)** (F,S) (C: ATEP 3810; BIOL 2130; EXSS 2805; current participation in the athletic training curriculum)
   - **ATEP 3810. Etiology and Evaluation of the Trunk and Upper Extremity (3)** (F) (P: ATEP 2810; P/C: BIOL 2130; EXSS 2850)
   - **ATEP 3820. Etiology and Evaluation of Lower Extremity (3)** (S) (P: ATEP 2810; P/C: BIOL 2130; EXSS 2850)
   - **ATEP 3860. Sports Medicine Practicum I (3)** (F) (P: Admission to the athletic training program; ATEP 3810)
   - **ATEP 4300. Field Experience in Athletic Training II (1)** (F,S,SS) (P: ATEP 3250, 3251, 3810, 3820; C: Current participation in the athletic training curriculum)
   - **ATEP 4320. Organization and Administration of Sports Medicine (3)** (WI) (P: ATEP 3810, 3820)
   - **ATEP 4860. Sports Medicine Practicum II (3)** (S) (P: ATEP 3820)
   - **BIOL 2130. Survey of Human Physiology and Anatomy (4)** (F,S,SS) (P: BIOL 1050, 1051; or 1100, 1101)
   - **EXSS 1101. Physical Conditioning (1)** (F,S,SS) (P: EXSS 1000 or 1001)
   - **EXSS 2850. Structural Kinesiology (1)** (F,S)
   - **EXSS 3805. Physiology of Exercise (3)** (F,S,SS) (P: BIOL 2130 or BIOL 2140, 2150; EXSS 2850)
   - **EXSS 3850. Introduction to Biomechanics (3)** (F,S,SS) (P: BIOL 2130 or BIOL 2140; EXSS 2850; PHYS 1250, 1251; or consent of instructor)
   - **HLTH 2000. Introduction to Health Education Principles of Public Health (3)** (F,S,SS) (P: HLTH 1000 or 4050)
HLTH 2125, 2126. Safety Education and First Aid (3,0) (P: HLTH 1000 or 1050; C for 2125: HLTH 2126; C for 2126: HLTH 2125)
HLTH 3020. Health Disparities (3) (F,S,SS) (P: HLTH 1000 or 1050; 3010 or consent of instructor)
MIS 2223. Introduction to Computers (3) (F, S, SS)
NUTR 2105. Nutrition (3)
A course in research methodology/statistical design (3)

3. Minor or approved electives to complete requirements for graduation.

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BS in Health Education and Promotion

Students entering the health education and promotion degree program choose one of three concentrations: community health, prehealth professions, or worksite health promotion. The community health concentration requires a minimum cumulative GPA of 2.5 for entry and thereafter the student must maintain a minimum 2.0 GPA in the required cognates and pass all health education core courses with a minimum grade of C. A student earning a D in any of these courses must petition the Department of Health Education and Promotion for probationary continuation. No student on probation may enroll for HLTH 4991, Health Education and Promotion Internship. Students entering the worksite health promotion concentration must have a minimum cumulative 2.0 GPA and a minimum 2.5 GPA calculated on three courses: ECON 2113; HLTH 2000; PSYC 3241. Students entering the prehealth professions concentration must have a minimum cumulative 2.0 GPA and a minimum 2.75 GPA calculated on the following courses: BIOL 1100, 1101, 1200, 1201; CHEM 1150, 1151, 1160, 1161. Prehealth professions students must complete an interview with health education faculty. Minimum degree requirement is 126 s.h. as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below for all options as well as additional foundations curriculum requirements for each option - 42 s.h.

   All concentrations:
   HLTH 1000. Health in Modern Society (2) (F,S,SS) (FC:HL)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)

   Community Health:
   BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
   BIOL 1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
   BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (FC:SC) (P: BIOL 1050, 1051; or 1100, 1101)
   COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)

   Prehealth Professions:
   BIOL 1100, 1101. Principles of Biology and Laboratory 1 (3,1) (F,S,SS) (FC:SC) (P/C for 1101: BIOL 1100)
BIOL 1200, 1201. Principles of Biology and Laboratory II (3,1) (F,S,SS) (FC:SC) (P/C for 1201: BIOL 1200)
Worksite Health Promotion:
BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
BIOL 1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (P: BIOL 1050, 1051; or 1100, 1101)
PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO)

2. Common core - 24 s.h.

BIOS 1500. Introduction to Biostatistics (3) (F,S) (P: MATH 1065 with a grade of C or better or equivalent or consent of instructor) or MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) (FC:MA) (P: MATH 1065 or equivalent)
EHST 2110, 2111. Introduction to Environmental Health Sciences and Laboratory (3,0) (F,S)
HLTH 2000. Introduction to Health Education Principles of Public Health (3) (F,S,SS) (P: HLTH 1000 or 1050)
HLTH 2125, 2126. Safety Education and First Aid (3,0) (F,S,SS) (P: HLTH 1000 or 1050; C for 2125: HLTH 2126; C for 2126: HLTH 2125)
HLTH 3010. Health Problems I (3) (F,S,SS) (P: BIOL 2130 or 2140; HLTH 1000 or 1050; or consent of instructor)
HLTH 3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)
HLTH 3020. Health Disparities (3) (F,S,SS) (P: HLTH 1000 or 1050; 3010 or consent of instructor)
HLTH 3030. Health Behavior (3) (WI) (F,S,SS) (P: HLTH 1000 or 1050; PSYC 1000)
HLTH 3050. Public Health Systems and Policy (3) (P: HLTH 1000 or 1050)
HLTH 4604. Applied Principles of Health Promotion (3) (SL*) (F,S) (P: BIOL 2130 or 2140; NUTR 1000 or 2105; PSYC 1000; or consent of instructor)
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)

3. Concentration (Choose one option.) 37-49 s.h.

Community Health (37-49 s.h.):
BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC) (P:C: BIOL 2130)
EHST 2110, 2111. Introduction to Environmental Health Sciences and Laboratory (3,0) (F,S)
HLTH 2500. Peer Health I: Training (3) (F,S) (P: HLTH 1000 or HLTH 1050 or consent of instructor)
HLTH 3000. Theory and Practice in Community Health Education (3) (S)
HLTH 3002. Women’s Health Across the Lifespan (3) (P: HLTH 3010)
HLTH 3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)
HLTH 3520. Introduction to Global Health (3) (S) (P: HLTH 1000 or 1050; or consent of instructor)
HLTH 4605. Community Strategies for Health Education (3) (F,S,SS) (WI*) (P: HLTH 3000 or consent of instructor)
HLTH 4609. Needs Assessment and Program Planning (3) (P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050; or consent of instructor)
HLTH 4611. Planning and Evaluation of Community Health Education Programs (3) (F,S) (P: HLTH 3000-HLTH 4609)
HLTH 4880. Capstone: Applied Principles of Health Education and Promotion (3) (P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050, 4609, 4611; or consent of instructor)
HLTH 4991. Health Education and Promotion Internship (12) (F,S,SS) (P: Completion of all other major requirements)
HLTH 5002. Maternal and Child Health Education (3) (P: HLTH 3010 or consent of instructor)
MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) (P: MATH 1065 or equivalent or approved basic statistics course
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)
PSYC 3221. Social Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)
Prehealth Professions (47-55 s.h.):

Basic Science Requirements:

**BIOS 1500. Introduction to Biostatistics (3) (F,S) (P: MATH 1065 or equivalent)**

**BIOL 2140, 2141. Human Physiology and Anatomy (3,1) (P: CHEM 1120 or 1150; C for 2140: BIOL 2141; C for 2141: BIOL 2140)**

**BIOL 2150, 2151. Human Physiology and Anatomy (3,1) (P: BIOL 2140; C for 2150: BIOL 2151; P for 2151: BIOL 2141; C for 2151: BIOL 2150)**

**CHEM 1150, 1151. General Chemistry and Laboratory (3,1) (FC:SC)**

**CHEM 1160, 1161. General Chemistry and Laboratory II (3,1) (FC:SC)**

**HIMA 3000. Medical Terminology for Health Professionals (3) (F,S,SS) or ATEP 2800. Medical Nomenclature for Human Performance (2) (F,S,SS) (P: HLTH 1000)**

Choose either:

**CHEM 2750, 2753. Organic Chemistry I and Laboratory (3,1) (F,S,SS) (P: CHEM 1160, 1161) and CHEM 2760, 2763. Organic Chemistry II and Laboratory (3,1) (F,S,SS) (P: CHEM 2750) and/or PHYS 1250, 1251.**

**General Physics and Laboratory (3,1) (F,S,SS) (FC:SC) (P: MATH 1065) and PHYS 1260, 1261. General Physics II and Laboratory (3,1) (F,S,SS) (FC:SC)**

Health Education Requirements:

**HLTH 3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)**

**HLTH 3300. Introduction to Patient Education (3) (P: HLTH 3010 or consent of instructor)**

Choose 12 s.h. from the following:

**ANTH 3252. Medical Anthropology (3) (P: ANTH 1000 or 2010 or 2200)**

**BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160; RP for 2110; BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110)**

**BIOL 2300. Genetics (3) (P: BIOL 1100, 1200)**

**BIOS 5010. Epidemiology for Health Professionals (3) (P: BIOS 1500 or consent of instructor)**

**BIOL 5800, 5821. Principles of Biochemistry and Laboratory (3,1) P for 5800: BIOL 3310, 3311; or consent of instructor; CHEM 2760, 2763; P/C for 5821 for undergraduate students: BIOL 5800 or 5810)**

**HLTH 3515. AIDS HIV Disease in Modern Society (3) (P: HLTH 1000 or 1050 or consent of instructor)**

**HLTH 4001. Stress Management: Principles and Practices (3) (S)**

**HLTH 4901, 4902. Prehealth Professions Clinical Field Experience (3,3) (F,S,SS) (P: HLTH 3010, 3020 and consent of instructor)**

**HLTH 4910. Prehealth Professions Internship (6) (F,S,SS) (P: Completion of all major requirements and consent of program director)**

**HLTH 5310. Education for Human Sexuality (3) (P: Health education major or consent of instructor)**

**HPRO 2100. Perspectives in Health Care (2)**

**HPRO 5000. Seminar in Human Sexual Dysfunctions (3)**

**PHIL 3281. Introduction to Philosophical Ethics in the Health Care Profession (3) (WI*) (FC:HU)**

**SOCI 3327. Introductory Medical Sociology (3) (FC:SO) (P: SOCI 2110 or consent of instructor)**

**SOCI 5200. Seminar in Sociology of Health (3) (P: SOCI 2110 or consent of instructor)**

Worksite Health Promotion (39-48 s.h.):

**BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC) (P/C: BIOL 2130)**

**EHST 3900. Introduction to Occupational Health (3) (F) (P: 6 s.h. in BIOL, including BIOL 2130; 8 s.h. of general CHEM; or consent of instructor) or ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing); completion of 12 s.h. of industrial technology courses.**

**EXSS 2850. Structural Kinesiology (1) (F,S,SS)**
EXSS 3805. Physiology of Exercise (3) (F,S,SS) (P: BIOL 2130 or BIOL 2140, 2150; EXSS 2805)
EXSS 4805. Exercise Evaluation and Prescription Laboratory (1) (F,S,SS) (C: EXSS 4806)
EXSS 4806. Exercise Evaluation and Prescription (3) (WI) (F,S,SS) (P: Health and human performance major or minor; EXSS 3805; or consent of instructor; C: EXSS 4805)
FINA 2244. Legal Environment of Business (3) (F,S,SS)

HLTH 4006. Health Promotion in the Workplace (3) (F)
HLTH 4200. Planning and Evaluation in Worksite Health Promotion (3) (F,S,SS) (P: Completion of core courses)
HLTH 4600. Data Analysis for Health Promotion Programming (2) (S) (C: HLTH 4200)
HLTH 4609. Needs Assessment and Program Planning (3) (P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050; or consent of instructor)
HLTH 4611. Program Evaluation (3) (P: HLTH 4609)
HLTH 4700. Practicum Seminar in Worksite Health Education (3) (S) (P: HLTH 4200)
HLTH 4880. Capstone: Applied Principles of Health Education and Promotion (3) (P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050, 4609, 4611; or consent of instructor)
HLTH 4991. Health Education and Promotion Internship (12) (F,S,SS) (P: Completion of all other major requirements)
MGMT 3202. Fundamentals of Management (3) (F,S,SS) (P: ECON 2113)
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)
Choose 6 s.h. from:
BITE 2112. Introduction to Information Processing Technology (3) (F,S,SS) or MIS 2223. Introduction to Computers (3) (F,S,SS)

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Worksite Health Promotion Minor

Minimum requirement for worksite health promotion minor is 24 s.h. to be selected from:

1. Core - 21 s.h.

EHST 3900. Introduction to Occupational Health (3) (F) (P: 6 s.h. in BIOL, including BIOL 2130; 8 s.h. of general CHEM; or consent of instructor)
HLTH 2000. Introduction to Health Education Principles of Public Health (3) (F,S,SS) (P: HLTH 1000 or 1050)
HLTH 3030. Health Behavior (3) (WI) (F,S, SS) (P: HLTH 1000 or 1050; PSYC 1000)
HLTH 4006. Health Promotion in the Workplace (3) (F)
HLTH 4200. Planning and Evaluation in Worksite Health Promotion (3) (F,S, SS) (P: Completion of core courses)
HLTH 4604. Applied Principles of Health Promotion (3) (F,S) (P: BIOL 2130 or 2140; NUTR 1000 or 2105; or consent of instructor)
HLTH 4609. Needs Assessment and Program Planning (3) (P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050; or consent of instructor)
HLTH 4611. Program Evaluation (3) (P: HLTH 4609)
NUTR 2105. Nutrition Science (3)

2. Elective options (3 hrs. required) - 3 s.h.
HLTH 3010. Health Problems I (3) (F,S,SS) (P: BIOL 2130 or 2140; HLTH 1000 or 1050; or consent of instructor)
HLTH 3020. Health Disparities (3) (F,S,SS) (P: HLTH 1000 or 1050; 3010 or consent of instructor)
HLTH 4001. Stress Management: Principles and Practices (3) (S)

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HLTH: Health

1000. Health in Modern Society (2) (F,S,SS) (FC:HL)
   May receive credit for only one: HLTH 1000, 1050. Mental, social, and physical health problems related to man’s internal and external environments in technological and leisure-oriented societies.

1050. Health and Service in Modern Society (3) (SL) (F,S) (FC:HL)
   May receive credit for only one: HLTH 1000, 1050. Mental, social, and physical health issues related to our society. Integrates service learning to enhance academic achievement, build citizenship skills and civic engagement related to health issues in our society.

1100. Personal Safety Issues (1) (F,S,SS)
   Overview of legal protection, obligation, and consequences related to personal safety.

1101. Threat Assessment and Conflict Resolution (1) (F,S,SS)
   Survey of effective threat assessment, management, and conflict prevention strategies.

1102. Peer Mediation (1) (F,S)
   Techniques and skills to serve as a mediator and organize a peer mediation program. Practical skills to de-escalate conflict at school, at work and in life.

1900. Introduction to Health Professions (3) (F,S)
   3 lecture hours per week. Does not meet foundations curriculum requirements for health. Survey of health professions including, process for successful entrance into health professional schools or graduate programs.

2000. Introduction to Health Education Principles of Public Health (3) (F,S,SS)
   P: HLTH 1000 or 1050. Health education theory and practice. Emphasis on educational change process; settings, skills, and outcomes of health and education practice; and evolving roles of health educators.

2050, 2051. Sexual Health (3,0) (F,S)
   2 lecture and 1 seminar hour per week. P: HLTH 1000 or 1050; C for 2050: HLTH 2051; C for 2051: HLTH 2050. Introduces human sexuality from personal health perspective. Topics include reproductive anatomy, sexually transmitted diseases, contraception, sexual response, sexual behavior, and sexual health problems.

2123. Early Experiences for the Prospective Teacher (1) (F)
   For prospective teachers. Minimum of 16 hours of directed observations and planned participation in appropriate school environments and 8 clock hours of seminar class instruction in the teaching area. May not count toward a BA major or minor. P: HLTH 1000 or 1050. Introduction to teaching of health.

2125, 2126. Safety Education and First Aid (3,0) (F,S,SS)
   2 classroom and 2 lab hours per week. P: HLTH 1000 or 1050; C for 2125: HLTH 2126; C for 2126: HLTH 2125. Accident prevention and skills for emergency first aid care. Skills necessary for cardiopulmonary resuscitation. Successful completion leads to Red Cross certification in standard first aid and personal safety and cardiopulmonary resuscitation.

2220, 2221. Basic Athletic Training (3,0) (F,S,SS)
   2 lecture and 2 lab hours per week. Does not meet requirements for National Athletic Trainers’ Association Certification. P: HLTH 1000 or 1050; C for 2220: HLTH 2221; C for 2221: HLTH 2220.

2290, 2291, 2292. Field Experience in Community Health Education (1,2,3)
50 hours of work experience required for each s.h. credit. P: Sophomore standing; HLTH 1000 or 1050. Early, supervised work experience. Planning, implementing, and evaluating health education programs. Variety of health agencies.

2500. Peer Health I: Training (3) (F,S)
P: HLTH 1000 or 1050 or consent of instructor. Training experience in planning, implementation, evaluation of health education activities for ECU community.

3000. Theory and Practice in Community Health Education (3)
May receive credit for only one of HLTH 3000, 3001. Basic behavioral, community organization, educational, and administrative concepts and methodologies of professional practice in community health education.

3001. Principles of Community Health Education (2) (S)
May receive credit for one of HLTH 3000, 3001. P: HLTH 1000 or 1050. Theory and practice. Introduction to field.

3002. Women’s Health Across the Lifespan (3)
P: HLTH 3010. Examination of various aspects of women’s health within the context of social, political, and economic environments in public health.

3010. Health Problems I (3) (F,S,SS)
P: BIOL 2130 or 2140; HLTH 1000 or 1050; or consent of instructor. Current health problems. Focus on relationship between patterns of individual behavior and pathophysiology of specific disease states. Emphasis on universal chronic disease states. Rationale for development of primary and secondary intervention strategies.

3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)
Principles of epidemiology in health education and promotion settings.

3020. Health Disparities. (3) (F,S,SS)
P: HLTH 1000 or 1050; 3010; or consent of instructor. Current health issues of priority populations. Health education strategies that seek to eliminate racial and ethnic health disparities.

3030. Health Behavior (3) (WD) (F,S,SS)
P: HLTH 1000 or 1050; PSYC 1000. Theories and models used to explain health behaviors.

3050. Public Health Systems and Policy (3)
P: HLTH 1000 or 1050. Local, state, and national public health policy and politics. Review and analysis of public and private health systems.

3225. Standard First Aid and Personal Safety Instructor (2) (S)
1 lecture and 4 lab hours per week. P: HLTH 2125, 2126; or certification as having completed the American Red Cross advanced first aid course within the past 3 years. Satisfactory completion results in certification as instructor in standard first aid and personal safety, first aid multimedia systems, and basic first aid.

3244. Practices and Procedures in Health for Elementary School (2) (F,S,SS)
P: HLTH 1000 or 1050 and any 2123 course, or consent of the instructor. Required of all elementary education majors. Class organization, principles, and practices associated with health education at elementary level.

3300. Introduction to Patient Education (3) (F)
P: HLTH 3010 or consent of instructor. Theories that apply to the practice of patient education in a variety of health care settings.

3355. Alcohol, Tobacco, and Other Drugs Education and Prevention (3) (F)
ATOD abuse education and prevention theory for use with children and adolescents.

3500. Planning, Implementation and Evaluation in College Health Promotion: Nutrition (3) (F,S)
P: HLTH 1000 or 1050; HLTH 2500 or NUTR 2105. Theory and application of content and methodologies to be utilized in college health promotion programs with an emphasis on nutrition education.

3501. Planning, Implementation and Evaluation in College Health Promotion: Sexuality (3) (F,S)
P: HLTH 1000 or 1050; HLTH 2500 or HLTH 2050. Application of methods in college-based sexual health programs.

3502. Planning, Implementation and Evaluation in College Health Promotion: Alcohol, Tobacco and Other Drugs (3) (F,S) P: HLTH 1000 or 1050; HLTH 2500 or REHB 2003. Application of methods in college-based ATOD prevention education programs.

3515. AIDS HIV Disease in Modern Society (3) (S)
P: HLTH 1000 or 1050 or consent of instructor. Key issues surrounding AIDS epidemic. Focus on social,
psychological, political, economic, legal, ethical, and health aspects.

3520. Introduction to Global Health (3) (S) P: HLTH 1000 or 1050; or consent
of instructor. An overview of how
health problems and issues in other parts of the world compare and contrast with those in the U.S.

4001. Stress Management: Principles and Practices (3) (S)
Same as RCTX 4001 Concepts and theories of stress management in human health.

4006. Health Promotion in the Workplace (3) (F)
Needs and corporate operations assessment, design, implementation, and evaluation of health-related
programs in worksite settings.

4010. Senior Seminar: Tutorial in Health Issues Research (3) (F,S)
2 1-hour lectures and 2 2-hour labs per week. P: Senior standing or school and community health majors;
completion of all core courses; or consent of instructor. Guidance in development of investigative study
appropriate to student’s needs and interests.

4100. Community Health Profile (3)
P: Consent of instructor. Basic concepts and tools for identifying community health education needs.
Develop community health profile for county of internship (HLTH 4990).

4200. Planning and Evaluation in Worksite Health Promotion (3) (F,S,SS)
P: Completion of core courses. Role of evaluation. Emphasis on measuring instrument design, evaluation,
planning, and interpretation of evaluation results.

4305. Class Management in Health Occupations (3) (F)
Strategies for managing behaviors in the health education classroom and related clinical settings.

4323. Methods of Teaching Health Education (3) (F,S)
P: Admission to upper division. Theory and application of content and methodologies to be utilized in
secondary school health program.

4324. Internship in Health Education (10) (F,S)
Full-time, semester-long internship.
P: Admission to upper division; EDUC 3200; HLTH 2123; completion of HLTH 4323 with a minimum
grade of C; PSYC 1000; C: HLTH 4326. Observation and supervised teaching in an assigned health
education public school classroom.

4326. Internship Seminar: Issues in Health Education (1) (F,S)
P: Admission to upper division; C: HLTH 4324. Individualized study of problems or issues pertinent in
school health education.

4500, 4501, 4502. Independent Study (1,2,3) (WI*) (F,S,SS)
P: Consent of instructor. Individualized program developed through student initiative in consultation with
designated instructor as extension of formal course offerings.

4600. Data Analysis for Health Promotion Programming (3) (S)
C: HLTH 4700. Understanding of and skills in utilizing health-related data for planning worksite health
promotion and cost-control programs.

4604. Applied Principles of Health Promotion (3) (SL*) (F,S)
P: BIOL 2130 or 2140; NUTR 1000 or 2105; PSYC 1000; or consent of instructor. In-depth study of the
health content areas most commonly addressed in health promotion programs. Emphasis on integration of
current knowledge in context of contemporary educational strategies.

4605. Community Strategies for Health Education (3) (WI) (F,S,SS)
P: HLTH 3000 or consent of instructor. Skills in community interventions for health educators based on
principles of community organization. Both classroom instruction and field exposure will be utilized.
Additionally, case studies and real life experiences used to greatest extent possible.

4609. Needs Assessment and Program Planning (3)
P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050; or consent
of instructor. Needs assessment, design, planning, and implementation of public health education and
promotion programs.

4611. Planning and Program Evaluation of Community Health Education Programs (3) (F,S)
P: HLTH 3000, HLTH 4609. Planning theory and application for health education programs, including
evaluation methodology. Applications for epidemiological and sociological diagnoses in program
development. Theory, design, and techniques to evaluate public health practice.

4700. Practicum Seminar in Worksite Health Education (3) (S)
HLTH 4200. Private sector health promotion programs. Based on needs and operations of local sites, student will be assigned individual projects.

4800. Field Study in International Health (6) (SS)
P: Consent of instructor. Study of public health and health care delivery systems in international host countries.

4880. Capstone: Applied Principles of Health Education and Promotion (3)
P: BIOS 1500 or MATH 2228; EHST 2110, 2111; HLTH 2000, 3010, 3011, 3020, 3030, 3050, 4609, 4611; or consent of instructor.

4901, 4902. Prehealth Professions Field Experience (3,3) (F,S,SS)
P: HLTH 3010, 3020 and consent of instructor. 75 hours of documented clinically-related field experience.

4910. Prehealth Professions Internship (6) (F,S,SS)
P: Completion of all major requirements and consent of program director. Supervised learning experience in an approved clinical setting.

4991. Health Education and Promotion Internship (12) (F,S,SS)
P: Completion of all other major requirements. Professionally-supervised learning experience.

Agenda Item IX

College of Technology and Computer Science

Department of Technology Systems

Catalog Markup for the BS in Information and Computer Technology Curriculum Changes
From http://www.ecu.edu/cs-acad/ugcat/TechSystems.cfm under Concentrations for the BS in Industrial Technology

Information and Computer Technology
Choose nine courses from below (27 s.h.):
- ICTN 2530, 2531 Network Environment II (3,0) (F,S) (P: ICTN 1500)
- ICTN 2900, 2901. Fundamental Network Security (3,0) (F) (P: ICTN 2150)
- ICTN 3250, 3251. Internetwork Routing Technology (3,0) (F) (P: Current CCNA certification)
- ICTN 3540, 3541. Network Environment III (3,0) (F) (P: ICTN 2510, 2530)
- ICTN 3900, 3901. Web Services Management (3,0) (F) (P: ICTN 2510, 2530)
- ICTN 4010, 4011. User Application Management and Emerging Technologies (3,0) (F) (P: ICTN 2510, 2530)
- ICTN 4040. Enterprise Information Security (3) (S) (P: ICTN 2530, 2900)
- ICTN 4064. Regulations and Policies (3) (S) (P: ICTN 2150; P/C: FINA 2244)
- ICTN 4150, 4151. Switching Network Technology (3,0) (F) (P: Current CCNA certification)
- ICTN 4200, 4201. Intrusion Detection Technologies (3,0) (F) (P: ICTN 2530, 2900)
- ICTN 4250, 4251. Enterprise Network Security Technology (3,0) (S) (P: Current CCNA certification)
ICTN 4402, 4404, 4406, 4408. Special Topics (1,2,3,4) (P: Consent of instructor)
ICTN 4310. Digital Forensics (3) (P: ICTN 2530, 2900)
ICTN 4590, 4591. Network Maintenance and Troubleshooting (3,0) (S) (P: Current CCNA certification; ICTN 3250, 4150)
ICTN 4600, 4601. Enterprise Information Technology Management (3,0) (S) (P: ICTN 2154, 2530)
ICTN 4700, 4701. Virtualization Technologies (3,0) (P: ICTN 2530)
ICTN 4750. Enterprise Data Storage Technologies (3) (P: ICTN 2530)
ICTN 4800, 4801. Information Assurance Technologies (3,0) (F) (P: ICTN 2530, 2900)
ITEC 3000. Internet Tools Technology (3) (F,S) (P: MIS 2223 or ITEC 2000; distance education (online) student)

From [http://www.ecu.edu/cs-acad/ugcat/CoursesI.cfm](http://www.ecu.edu/cs-acad/ugcat/CoursesI.cfm)

**ICTN: Information and Computer Technology**

1500, 1501. PC Hardware (3,0) (F,S) Must be taken concurrently. 2 lecture and 2 lab hours per week. Hardware components of PCs and BIOS and operating system options needed to support those components. Topics include interface standards, component configuration, and troubleshooting.

2150, 2151. Network Fundamentals (3,0) (F,S) Must be taken concurrently. 2 lecture and 2 lab hours per week. Introduction to the architecture, structure, functions, components, and models of the Internet and other data networks.

2154, 2155. Digital Communication Systems (3,0) (F,S) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 2150. Introduces local-area and wide-area networks. Provides basic understanding of network concepts and router programming.

2158, 2159. Computer Networking Technology (3,0) (F,S) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 2154. Advanced study of local-area and wide-area networks. Develops competence in designing and implementing enterprise-wide campus network using routers and switches.

2510, 2511. Network Environment I (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 1500. Network management using various NOS products. Topics include NOS setup, network resource management, user and group management, and security model.

2530, 2531. Network Environment II (3,0) (F,S) Formerly ICTN 3530, 3501 Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 1500. Network management using various products such as Linux and Solaris, including NOS setup, network resource management, user and group management, and security model.

2732. Scripting for Information Technology (3) (S) P: ITEC 2000; P/C: ICTN 2530. Introduction of scripting for information technology applications.

2900,2901. Fundamental Network Security (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 2150. Computer network and information security principles, devices, and applications.
3250, 3251. Internetwork Routing Technology (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: Current CCNA certification. Advanced network routing technology in industry. Topics include routing protocols and technology, network performance consideration, and traffic control over LAN and WAN.

3540, 3541. Network Environment III (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: 2530. Enterprise system administration using mixed vendor network operating systems, such as Linux and Microsoft. Topics include integrating networking services such as network file systems, enterprise printing administration, remote administration, and host and network security issues.

3900, 3901. Web Services Management (3,0) (F) 2 lecture and 2 lab hours per week. P: 2530. Current technologies that provide web services and management for organizations. Topics include web content development, web server installation and configuration, database integration, and security issues.

4000. Network Internship (3) (F,S,SS) Minimum of 120 contact hours at internship site. P: Junior standing; ICTN major. Educational collaboration between business and industry and ECU, linking theoretical and lab practice with real-world applications. Proposal, fully describing planned activities, developed around student’s educational goals and objectives.

4010, 4011. User Application Management and Emerging Technologies (3,0) (F) 2 lecture and 2 lab hours per week. P: 2530. Emerging technologies that provide flexible and secure access to enterprise information resources. Topics include wireless and WLAN technology, broadband Internet connection, storage area networks, data warehousing/mining, application support for enterprise network.

4020. Senior Information and Computer Technology Capstone Design Project I (1) (WI) (F) 1 lecture hour per week. P: Senior standing, IDIS 3790, ITEC 3290, 3300; ICTN major. Open-ended design project, exposing students to practice of information and computer technology. Development of proposal for ICTN 4022 project.

4022. Senior Information and Computer Technology Capstone Design Project II (2) (WI) (S) 2 lecture hours per week. P: ICTN 4020. Open-ended design project, exposing students to practice of information and computer technology. Completion of project proposed in ICTN 4020.


4064. Regulations and Policies (3) (S) P: ICTN 2150, 2530; P/C: FINA 2244. Government and industry regulations and policies applied to information technology industry. Broad view of impact and effectiveness of regulations and policies.

4150, 4151. Switching Network Technology (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: Current CCNA certification. Concepts and technology used to interconnect multiple LANs. Covers advanced switching technology and applications.

4200, 4201. Intrusion Detection Technologies (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 2530, 2900. Computer network intrusion detection principles, devices, and applications.

4250, 4251. Enterprise Network Security Technology (3,0) (S) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: Current CCNA certification. Enterprise network security threats, vulnerabilities, and mitigation techniques. The installation,
troubleshooting, and monitoring of network devices to maintain integrity, confidentiality, and availability of data and devices.


4402, 4404, 4406, 4408. Special Topics (1,2,3,4) May be repeated with consent of chair. P: Consent of instructor. Emphasis on an emerging technology or development in the field.

4501, 4503, 4505. Laboratory Problems (1,2,3) 2 lab hours per week for 4501; 4 lab hours per week for 4503, 6 lab hours per week for 4505. May be repeated for credit with consent of dept chair. P: Consent of instructor. Independent study of concepts, processes, tools, and/or materials in the field of Information and Computer Technology.

4590, 4591. Network Maintenance and Troubleshooting (3,0) (S) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: Current CCNA certification; ICTN 3250, 4150. Large enterprise computer network system maintenance, support, troubleshooting, and improvement.

4600, 4601. Enterprise Information Technology Management (3,0) (S) P: ICTN 2154, 2530. Case studies on various issues about enterprise IT management.

4700, 4701. Virtualization Technologies (3,0) 2 lecture and 2 lab hours per week. P: ICTN 2530. Examination of current virtualization technologies and infrastructure management techniques.

4750 Enterprise Data Storage Technologies (3) P: ICTN 2530. Examination of current intelligent storage technologies and data management, and business continuity and disaster recovery techniques.

4800, 4801. Information Assurance Technologies (3,0) (F) Must be taken concurrently. 2 lecture and 2 lab hours per week. P: ICTN 2530, 2900. Information assurance principles, devices, and applications. Emphasis on problems relating to systems of varied operations system technologies and computer networking technologies.

ICTN Banked Courses
3520. Wireless Communications (4)
4592, 4593. Optimizing Converged Networks (3,0)
Curriculum

The baccalaureate program in nursing educates students for professional nursing practice and is characterized by a combination of foundations curriculum and nursing courses. The focus of the nursing courses is on nursing theory and scientific principles applied to the care of healthy persons as well as to acute and chronic health problems of individuals, families, and groups. Clinical experiences are provided in a variety of health care settings, such as hospitals, health departments, nursing homes, mental health centers, and other health-related community agencies. Graduates are prepared for beginning positions in nursing with the potential for positions of leadership and graduate study.

All students – high school graduates, transfer students, diploma or associate-degree graduates in nursing – earn the bachelor of science in nursing degree (BSN). The awarding of the BSN does not license one as a registered nurse. A separate examination (NCLEX-RN) is administered by the board of nursing in the state in which the applicant wishes to be registered. The College of Nursing will certify completion of degree requirements, but meeting other requirements for licensure is the responsibility of each candidate.

Registered nurses seeking to obtain a BSN are offered opportunities for educational accessibility, flexibility, and mobility. The curriculum track is 100 percent online. Service learning projects in student’s area of interest are completed in their local region. The curriculum track is designed to build on students’ past education and experience and expose registered nurses to innovative instructional methods for meeting course objectives. Registered nurse students meet course requirements by transfer, advanced placement, credit by exam, CLEP, and completion of courses by enrollment. Required sciences, foundations curriculum, and cognate courses must be completed prior to entry into the curriculum track. Students must hold a current unrestricted license as a registered nurse in North Carolina.

There is an RN to MSN track available for registered nurses who do not have a baccalaureate degree in nursing. See the graduate catalog for admission requirements.

All students are required to demonstrate computer competency, which can be met by placement or enrollment in BITE 2000.

The program is accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, NY 10006; 212-363-5555) and approved by the North Carolina Board of Nursing. The program is also accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW Suite 530, Washington, DC 20036; telephone 202-887-6791.

Admission

Freshmen may declare an intent to enroll in nursing but are assigned to General College until officially admitted to the College of Nursing after filing an application for admission to the major and meeting eligibility requirements prior to enrollment in the first nursing courses. Eligibility is based upon a minimum cumulative 2.5 GPA and completion of foundations curriculum requirements. A minimum grade of C is required in biology, chemistry, and college
algebra or equivalent. Admission to nursing courses is competitive and limited due to space availability and accrediting requirements. A national standardized preadmission test will be used as a basis for admission decisions beginning in the fall 2010. Students desiring readmission after an absence of one or more semesters must secure approval from the university admissions office and the College of Nursing Student Affairs Committee. Financial aid is available through scholarships and loans from government and private sources, work-study, and self-help programs. Information is available from the university director of financial aid or the College of Nursing director of student services.

Requirements

The College of Nursing considers a grade of C as the minimum passing grade for required nursing courses. Nursing students are required to earn a minimum course grade of C in all nursing courses. Opportunity to repeat a nursing course is limited by the College of Nursing Progression Policies as printed in the current student handbook.

All students are required to have CPR certification, a TB skin test, immunizations including Hepatitis B, and to purchase health and liability insurance prior to enrollment in clinical nursing courses. Verification of TB skin test, CPR update, and payment of health and liability insurance is required each year. Proof of current health insurance must be provided by the student. If applicable, waivers must be signed for immunizations and health insurance. Criminal background checks and drug testing are also required prior to enrolling in nursing courses.

Specific health requirements and performance standards are stated in the College of Nursing Student Handbook and can be found at http://www.nursing.ecu.edu/download/UG_Handbook.pdf.

The College of Nursing utilizes diagnostic tests for each of the 4 semesters a student is enrolled in the CON undergraduate curriculum. Tests may also be required prior to admission, during the semester, or near the completion of the semester. Results are used to assist students from entrance to graduation in determining nursing content that has been mastered. Various enhancement materials are used to assist with identified weaknesses.

Credit for courses in the College of Nursing is determined by the following formula: one classroom/lecture hour per week equals 1 s.h. credit; two lab hours per week equals 1 s.h. credit; and three practicum hours per week equals 1 s.h. credit.

http://www.ecu.edu/cs-acad/ugcat/coursesn.cfm#nurs

NURS: Nursing

3005. Academic Development for Nursing Education (2)
    P: Declared nursing majors. Assessment of academic strengths and weaknesses and development of academic skills essential to success in nursing education.
3010. Foundations in Nursing Informatics (3) (F,S)
P: Hold a current unrestricted license as a registered nurse in NC; completion of required sciences, foundations curriculum, and cognate courses. Application of information technology and literacy related to nursing education and practice.

3020, 3021. Health Assessment (3,0) (F,S)
2 lecture and 2 lab hours per week. P: Admission to NURS major. Theoretical foundations and lab experiences necessary for performing holistic health assessment.

3025. Health Assessment and Diagnostic Reasoning (3) (F,S)
P/C: NURS 3010. Theoretical foundations and skills for performing a holistic plan of care for individuals across the lifespan.

3030. Management of Diabetes Mellitus Across the Life Span (2)
P: Students in the health sciences division or consent of instructor. Management of individuals with diabetes mellitus using a multidisciplinary approach.

3040. Pharmacotherapeutics (3) (F,S)
P: Admission to NURS major. Relationship of drugs and their physiological effects. Nursing role in pharmacotherapeutics with consideration to legal, ethical, economic, and technological factors.

3081, 3082, 3083. Topics in Nursing (1,2,3)
1 classroom hour for 1 s.h.; 2 lab hours for 1 s.h.; 3 clinical hours for 1 s.h. May be repeated for credit at discretion of instructor. Selected contemporary topics. Individualized or small group learning experiences provide in-depth content in a nursing area.

3200. Introduction to Professional Nursing (2) (F,S)
P: Admission to NURS major. Conceptual and philosophical foundations of professional nursing.

3210, 3211. Nurse as Care Provider (6) (F,S)

3260. Legal Aspects of Health Care (2) (F)
P: Nursing major or consent of instructor. Legal system as related to practice of health care professionals, especially professional nurses.

3270, 3271. Clinical Nursing Foundations I (2,0) (F,S)
1 lecture and 2 lab hours per week. P: Admission to NURS major. Basic skills required for professional nursing practice.

3330, 3331. Nursing Care of Families During the Childbearing Phase (5) (F,S)
3 lecture and 6 practicum hours per week. P: All required NURS courses below 3300; P/C: NURS 3040, 3370, 3371, 3410. Theoretical foundations and clinical experiences in nursing care of families during childbearing phase.

3340, 3341. Nursing Care of Children (5) (F,S)
3 lecture and 6 practicum hours per week. P: All required NURS courses below 3300; P/C: NURS 3040, 3370, 3371, 3410. Theoretical foundations and clinical experiences in nursing care of children and their families.

3370, 3371. Clinical Nursing Foundations II (2,0) (F,S)
1 lecture and 2 lab hours per week. P: NURS 3270, 3271. Intermediate and advanced skills required for professional nursing practice.

3410. Concepts of Pathophysiology for Nursing (3) (F,S)
P: Admission to NURS major; RN students: P/C: NURS 3010. Etiology, mechanism, and clinical presentation of alterations in physiology.

3510. Nursing Research (3) (F,S,SS)
P: All required NURS courses below 3330; approved statistics course; RN students: P/C: NURS 3010. Introduction to research process and its impact on nursing practice, education, and public policy.

3520. Trends and Issues in Professional Nursing (3) (WI) (F,S,SS)
P: All required NURS courses below 3330. Topics in global health care environment.

3851. Nurse Extern I (2-3)
P: All required nursing courses below 3400, consent of extern course coordinator, nursing assistant I or II certification (as agency requires). Opportunities to perform as a contributing staff member of the patient care team while developing and enhancing critical thinking and clinical skills.

3852. Nurse Extern II (2-3)
P: All required nursing courses below 3400, consent of extern course coordinator, NURS 3851, nursing assistant I or II certification (as agency requires). Continues to provide opportunities to perform as a contributing staff member of the patient care team while developing and enhancing critical thinking and clinical skills.

4010, 4011. Nursing Care of Clients with Alterations in Mental Health (5) (F,S)
3 lecture and 6 practicum hours per week. P: All required NURS courses below 4000. Theoretical foundations and clinical experiences specific to promotion of mental health. Maintenance of optional functioning and maximization of quality of life for clients with alterations in mental health.

4020, 4021. Nursing Care of Adults (6) (F,S)
3 lecture and 9 practicum hours per week. P: All required NURS courses below 4000. Theoretical foundations and clinical experiences specific to nursing care of adults within a family experiencing complex alterations in health.

4100. Health of the Older Adult (2) (F,S)
P: All required NURS courses below 4000. Conceptual and philosophical approaches to aging along wellness-illness continuum.

4150. Nursing Leadership (3) (WI*) (F,S)
P: All required NURS courses below 4000. Theoretical and organizational frameworks for understanding essential elements of nursing leadership.

4210, 4211. Nursing Care of Populations and Communities (6) (F,S)
3 lecture and 9 practicum hours per week. P: All required NURS courses below 4200. Theoretical foundations and clinical experiences specific to nursing care of populations and communities.

4220. Perspectives in International Community Health Nursing (3)
P: All required nursing courses below 4210. Introduction to global health issues of select international communities and/or nations.

4410. Nursing Management of Complex Health Issues: Individuals and Families (3) (F,S)
P: All required NURS 3000 level courses. Principles and practices of nursing promoting holistic care of individuals and families across the lifespan.

4420. Nursing Management of Complex Health Issues: Populations and Systems (3) (WI) (F,S)
P: All required NURS 3000 level courses; P/C: NURS 4410. Principles and practices of nursing promoting holistic care of population health across the lifespan.
4430. Systems, Complex Health Issues and Nursing (3) (F,S)
P: All required NURS 3000 level courses; P/C: NURS 4420. Principles and practices of nursing focusing on systems impacting current and emerging complex health issues.

4440. Nursing Leadership and Service Learning I (3) WI (F,S)
2 lab and 6 practicum hours per week. P: All required NURS 3000 level courses. Assessing and planning service-learning project relevant to health concerns of aggregates or populations.

4450. Nursing Leadership and Service Learning II (4) (F,S)
2 lab and 9 practicum hours per week. P: NURS 4440. Implementing and evaluating service-learning project relevant to health concerns of aggregates or populations.

4460. Nursing Leadership and Service Learning III (3) (F,S)
2 lab and 6 practicum hours per week. P: NURS 4440; P/C: NURS 4450. Disseminating service-learning project relevant to health concerns of aggregates or populations.

4500. Theory Capstone (5) (F,S)
P: All required NURS courses below 4200; C: NURS 4210, 4211. Synthesis of previous learning for transition into professional nursing practice.

4511. Clinical Capstone (3)
2 seminar and 12 practicum hours per week. P: All required NURS courses below 4200; C: NURS 4210, 4211. Manages, coordinates, and delivers nursing care in selected settings based on application of previous learning.

5000. Nursing Care for Families: A Systems Perspective (3)
P: Graduate standing, or consent of instructor. Interpretation of family responses useful in formulating nursing assessments and diagnoses and for defining basic nursing therapeutic interventions for families in variety of health care settings. Nursing process used to explore state of the art concept of family nursing science. Current and predicted changes in health care delivery and their affect on family.

5025. Computer Applications in Nursing (2)
P: Graduate student standing; undergraduate seniors by consent of instructor. Computer applications in nursing service, education, research, and clinical practice.

5327. Women's Health (3)
Health care issues and changes affecting delivery of care.

5620. International Health Care (3)
P: Graduate standing, or senior by consent of instructor. Issues, philosophy, and cultural differences in health care from international perspective. Compares US health care to that in other nations.

5900. School Nursing Practice (3)
Complexity of school nurse role in coordinated school health programs. Emphasis on case management and interdisciplinary practice in school setting.

NURS Banked Courses
3050. Nursing Core I (2)
3205. Health in the Older Adult (3)
3250, 3251. Geriatric Nursing (3,0)
3900. Concepts in Professional Nursing (3)
3901. Practicum in Concepts in Professional Nursing (2)
4050. Nursing Core II (3)
5460, 5461. Patient Education for Interdisciplinary Health Care Providers (3,0)
BS in Clinical Laboratory Science

A minimum cumulative 2.0 GPA in biology and chemistry courses is required for admission into the professional phase of the curriculum. Majors must maintain a minimum cumulative 2.0 GPA in all clinical laboratory science (CLSC) courses during the professional phase of the curriculum. A student earning a D in any of the CLSC courses must petition the Department of Clinical Laboratory Science for probationary continuation. Minimum degree requirement is 131 s.h. of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below. - 42 s.h.

   CHEM 1150, 1151. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C: MATH 1065; C for 1150: CHEM 1151; C for 1151: CHEM 1150)
   CHEM 1160, 1161. General Chemistry and Laboratory II (3,1) (F,S,SS) (FC:SC) (P: CHEM 1150, 1151; C for 1160: CHEM 1161; C for 1161: CHEM 1160; RC: MATH 1083 or 1085)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   Recommended:
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   PSYC 2101. Psychological Statistics (4) (F,S,SS) (FC:SO) (P: MATH 1065 or MATH 1066)

2. Core - 67 s.h.

   CLSC 3410. Hematology I (3) (F) (P: CLSC major)
   CLSC 3411. Hematology I Laboratory (1) (F) (P: CLSC major; C: CLSC 3410)
   CLSC 3420. Hematology II (3) (S) (P: CLSC major; CLSC 3410, 3411; or consent of instructor)
   CLSC 3421. Hematology II Laboratory (1) (S) (P: CLSC major; CLSC 3410, 3411; or consent of instructor)
   CLSC 3430. Clinical Immunology (2) (F) (P: Consent of instructor)
   CLSC 3440, 3441. Clinical Microscopy and Serology Lecture and Laboratory (2,1) (SS) (P: CLSC 3430)
   CLSC 4210, 4211. Immunohematology Lecture and Laboratory (3,1) (SS) (P: CLSC 3430; consent of instructor)
CLSC 4430, 4431. Clinical Chemistry I (2,1) (F) (P: 4 courses in CHEM; PSYC 2101 or other statistics course; P for nonmajor: consent of instructor)
CLSC 4440, 4441 Clinical Chemistry II (4,2) (S) (P: CLSC 4430, 4431; P for nonmajor: consent of instructor)
CLSC 4460, 4461. Clinical Microbiology I (4,2) (F) (P: BIOL 2110, 2111; or 3220, 3221; or consent of instructor)
CLSC 4470, 4471. Clinical Microbiology II (3,2) (S) (P: CLSC 4460, 4461; or consent of instructor)
CLSC 4480, 4481. Clinical Microbiology III (2,1) (SS) (P: Consent of instructor)
CLSC 4491. Molecular Diagnostics in Clinical Laboratory Science I (1) (F) (P: Consent of instructor)
CLSC 4492. Molecular Diagnostics in Clinical Laboratory Science II (1) (S) (P: CLSC 4491; consent of instructor)
CLSC 4801. Professional Practice Issues I (3) (WI) 3 lecture hours per week. P: CLSC major.
CLSC 4802. Professional Practice Issues II (4) (S) 4 lecture hours per week. P: CLSC major.
CLSC 4803. Introduction to Clinical Laboratory Information Systems (2) (S) (P: CLSC major or consent of instructor)
** CLSC 4992. Clinical Education–Hematology, Coagulation, Urinalysis (4) (F,S) (P: CLSC 3420, 3421)
** CLSC 4993. Clinical Education–Chemistry (4) (F,S) (P: CLSC 4440, 4441)
** CLSC 4994. Clinical Education–Blood Bank and Serology (4) (F,S) (P: CLSC 4210, 4211)
** CLSC 4997. Clinical Education–Microbiology (4) (F,S) (P: CLSC 4470, 4471)

3. Cognates - 22 s.h.

BIOL 1100, 1101. Principles of Biology and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C for 1101: BIOL 1100)
BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) (P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160, BIOL 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110; BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110)
BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (FC:SC) (P: BIOL 1050, 1051; or 1100, 1101)
CHEM 2250, 2251. Quantitative and Instrumental Analysis (3,2) (WI) (F,S) (P: CHEM 1160, 1161; CHEM 2650 or 2750)
CHEM 2650. Organic Chemistry for the Life Sciences (4) (F) (P: CHEM 1160, 1161)
CHEM 2651. Organic Chemistry Lab for the Life Sciences (1) (F) (C: CHEM 2650)

*Students must complete CLSC 4801, 4802 to satisfy the 3 s.h. requirement of writing intensive courses in the major.

**Affiliated hospitals for CLSC 4992, 4993, 4994, 4997 include Cape Fear Valley Medical Center, Fayetteville; CarolinaEast Medical Center, New Bern; Lenoir Memorial Hospital, Kinston; Nash Health Care System, Rocky Mount; Pitt County Memorial Hospital, Greenville;
BS in Environmental Health

A minimum GPA of 2.0 in all 1000 level basic science and math courses, a minimum cumulative GPA of 2.0 on at least 30 s.h., and completion of EHST 2110 are required for admission to the professional phase of the environmental health sciences curriculum. Environmental health majors must pass all environmental health courses with a minimum grade of C. A student earning a D in any of these courses must petition the environmental health sciences faculty for probationary continuation. Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations Curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below - 42 s.h.

   Required:
   BIOL 1050, 1051. General Biology and Laboratory (3,1) (F,S,SS) (FC:SC)
   BIOL 2130. Survey of Human Anatomy (4) (F,S,SS) (P: BIOL 1050, 1051; or 1100, 1101)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)

   Recommended
   COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   HIST 1051. American History Since 1877 (WI*) (3) (F,S,SS) (FC:SO)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   RCLS 2601. Leisure in Society (3) (F,S,SS) (FC:SO)
   SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)

2. Common Core - 42 s.h.

   Select from the following with advisor approval:
   EHST 2110, 2111. Introduction to Environmental Health Sciences and Laboratory (3, 0) (F,S)
   EHST 3003. Environmental Epidemiology (3) (F)
   EHST 3200. Food Sanitation Principles (3) (S) (P: Consent of Instructor, C: EHST 3201)
   EHST 3201. Food Sanitation Principles Laboratory (1) (S) (P: Consent of Instructor, C: EHST 3200)
   EHST 3350. Safe Water (4) (F) (P: BIOL 2110, 2111; CHEM 1160, 1161, C: EHST 3351)
   EHST 3351. Safe Water Laboratory (1) (F) (P: BIOL 2110, 2111; CHEM 1160, 1161, C: EHST 3350)
   EHST 3370. Waste Water Management (3) (S) (P: EHST 3350, 3351, C: EHST 3371)
EHST 3371. Waste Water Management Laboratory (1) (S) (P: EHST 3350, 3351, C: EHST 3370)
EHST 3600. Air Pollution (3) (F) (P: EHST 2110 or consent of instructor)
EHST 3700. Industrial Hygiene (3) (S) (P: 8 s.h. of general science lab courses or consent of program directors; C: EHST 3701)
EHST 3701. Industrial Hygiene Laboratory (1) (S) (P: Consent of instructor; C: EHST 3700)
EHST 4010. Toxicological Foundations of Risk Assessment (3) (S) (P: BIOL 2130; CHEM 2650, 2651)
EHST 4200. Environmental Health Management and Law (3) (WI) (F) (P: EHST major or minor)
EHST 4300, 4301. Institutional and Recreational Sanitation and Laboratory (3,0) (F) (P: EHST 2110, 3003, 3200, 3201, 3350, 3351, 3370, 3371; or consent of instructor)
EHST 4350, 4351. Vector Borne Disease Ecology and Laboratory (3,0) (F) (P: EHST 2110, 3003, 3350, 3351, 3370, 3371; or consent of instructor)
EHST 4990. Environmental Health Internship (3) (P: EHST major; 13 s.h. in EHST or consent of program dir.)
EHST 5001. Environmental Health Seminar (1) (May be taken more than once)
EHST 5800, 5801. Solid and Hazardous Waste Management and Laboratory (3,0) (P: CHEM 1160, 1161 or consent of instructor)

3. Cognates - 30 s.h.

Required Cognates (24 s.h.):
BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) (P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160 BIOL 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110; BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110)
CHEM 1150, 1151. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C: MATH 1065; C for 1150: CHEM 1151; C for 1151: CHEM 1150)
CHEM 1160, 1161. General Chemistry and Laboratory II (3,1) (F,S,SS) (FC:SC) (P: CHEM 1150, 1151; C for 1160: CHEM 1161; C for 1161: CHEM 1160; RC: MATH 1083 or 1085)
CHEM 2650, 2651. Organic Chemistry for the Life Sciences (4,1) (F,S) (P: CHEM 1160, 1161)
PHYS 1250, 1251. General Physics and Laboratory (3,1) (F,S,SS) (FC:SC) (P: MATH 1065)
MATH 2228. Elementary Statistical Analysis (3) (F,S,SS) (P: MATH 1065 or equivalent) or BIOS 1500. Introduction to Biostatistics (3) (P: MATH 1065 or equivalent or consent of instructor)
Recommended Cognates (select at least 6 s.h.)
MIS 2223. Introduction to Computers (3) (F,S,SS)
PHYS 1260, 1261. General Physics and Laboratory (3,1) (P: PHYS 1250)
GEOG 3220. Soil Properties, Surveys, and Applications (3) (F) (P: GEOG 2250) or
GEOL 5710, 5711. Ground Water Hydrology (3,0) (P: GEOL 1500, 1501 or consent of instructor)
MATH 2119. Elements of Calculus (3) (F,S,SS) (FC:MA) (P: MATH 1065 with a minimum grade of C) or
MATH 2121. Calculus for the Life Sciences (3) (F,S,SS) (FC:MA) (P: MATH 1065 with a minimum grade of C)

4. Electives to complete requirements for graduation

Choose at least 6 s.h. of EHST electives from the 3000 level and above.

BS in Health Education and Promotion

Students entering the health education and promotion degree program choose one of three concentrations: community health, prehealth professions, or worksite health promotion. The community health concentration requires a minimum cumulative GPA of 2.5 for entry and thereafter the student must maintain a minimum 2.0 GPA in the required cognates and pass all health education core courses with a minimum grade of C. A student earning a D in any of these courses must petition the Department of Health Education and Promotion for probationary continuation. No student on probation may enroll for HLTH 4991, Health Education and Promotion Internship. Students entering the worksite health promotion concentration must have a minimum cumulative 2.0 GPA and a minimum 2.5 GPA calculated on three courses: ECON 2113; HLTH 2000; PSYC 3241. Students entering the prehealth professions concentration must have a minimum cumulative 2.0 GPA and a minimum 2.75 GPA calculated on the following courses: BIOL 1100, 1101, 1200, 1201; CHEM 1150, 1151, 1160, 1161. Prehealth professions students must complete an interview with health education faculty. Minimum degree requirement is 126 s.h. as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see **Liberal Arts Foundations Curriculum**) including those listed below for all options as well as additional foundations curriculum requirements for each option - 42 s.h.

    All concentrations:
    HLTH 1000. Health in Modern Society (2) (F,S,SS) (FC:HL)
    MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
    PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)

    Community Health:
    BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
    BIOL 1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
    BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (FC:SC) (P: BIOL 1050, 1051; or 1100, 1101)
    COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)

    Prehealth Professions:
2. Common core - 21 s.h.

HLTH 2000. Introduction to Health Education (3) (F,S,SS)
HLTH 2125, 2126. Safety Education and First Aid (3,0) (F,S,SS) (P: HLTH 1000 or 1050; C for 2125: HLTH 2126; C for 2126: HLTH 2125)
HLTH 3010. Health Problems I (3) (F,S,SS) (P: BIOL 2130 or 2140; HLTH 1000 or 1050; or consent of instructor)
HLTH 3020. Health Disparities (3) (F,S,SS) (P: HLTH 1000 or 1050; 3010 or consent of instructor)
HLTH 3030. Health Behavior (3) (WI) (F,S,SS) (P: HLTH 1000 or 1050; PSYC 1000)
HLTH 4604. Applied Principles of Health Promotion (3) (SL*) (F,S) (P: BIOL 2130 or 2140; NUTR 1000 or 2105; PSYC 1000; or consent of instructor)
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)

3. Concentration (Choose one option.) - 39 s.h.

Community Health (40 s.h.):
BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC) (P/C: BIOL 2130)
EHST 2110, 2111. Introduction to Environmental Health Sciences and Laboratory (3,0) (F,S)
HLTH 2500. Peer Health I: Training (3) (F,S) (P: HLTH 1000 or HLTH 1050 or consent of instructor)
HLTH 3000. Theory and Practice in Community Health Education (3) (S)
HLTH 3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)
HLTH 4605. Community Strategies for Health Education (3) (F,S,SS) (WI*) (P: HLTH 3000 or consent of instructor)
HLTH 4611. Planning and Evaluation of Community Health Education Programs (3) (F,S) (P: HLTH 3000)
HLTH 4991. Health Education and Promotion Internship (12) (F,S,SS) (P: Completion of all other major requirements)
HLTH 5002. Maternal and Child Health Education (3) (P: HLTH 3010 or consent of instructor)
MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) (P: MATH 1065 or equivalent or approved basic statistics course)
PSYC 3221. Social Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

Prehealth Professions (47-55 s.h.)

Basic Science Requirements:
BIOS 1500. Introduction to Biostatistics (3) (F,S) (P: MATH 1065 or equivalent)
BIOL 2140, 2141. Human Physiology and Anatomy (3,1) (P: CHEM 1120 or 1150; 2.75 GPA or consent of instructor; C for 2140: BIOL 2141; C for 2141: BIOL 2140)
BIOL 2150, 2151. Human Physiology and Anatomy (3,1) (P: BIOL 2140; 2.75 GPA or consent of instructor; C for 2150: BIOL 2151; P for 2151: BIOL 2141; C for 2151: BIOL 2150)
CHEM 1150, 1151. General Chemistry and Laboratory (3,1) (F,S,SS) (FC:SC)
CHEM 1160, 1161. General Chemistry and Laboratory II (3,1) (F,S,SS) (FC:SC)
HIMA 3000. Medical Terminology for Health Professionals (3) (F,S,SS) or ATEP 2800. Medical Nomenclature for Human Performance (2) (F,S,SS) (P: HLTH 1000)
Choose either:
CHEM 2750, 2753. Organic Chemistry I and Laboratory (3,1) (F,S,SS) (P: CHEM 1160, 1161) and CHEM 2760, 2763. Organic Chemistry II and Laboratory (3,1) (F,S,SS) (P: CHEM 2750) and/or PHYS 1250, 1251.
General Physics and Laboratory (3,1) (F,S,SS) (FC:SC) (P: MATH 1065) and PHYS 1260, 1261. General Physics II and Laboratory (3,1) (F,S,SS) (FC:SC)

Health Education Requirements:
HLTH 3011. Introduction to Epidemiology in Health Education and Promotion (3) (F,S,SS)
HLTH 3300. Introduction to Patient Education (3) (P: HLTH 3010 or consent of instructor)
Choose 12 s.h. from the following:
ANTH 3252. Medical Anthropology (3) (P: ANTH 1000 or 2010 or 2200)
BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) (P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160 BIOL 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110; BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110)
BIOL 2300. Genetics (3) (P: BIOL 1100, 1200)
BIOS 5010. Epidemiology for Health Professionals (3) (P: BIOS 1500 or consent of instructor)
BIOL 5800, 5821. Principles of Biochemistry and Laboratory (3,1) (P: for 5800: BIOL 3310, 3311; or consent of instructor; CHEM 2760, 2763; P/C for 5821 for undergraduate students: BIOL 5800 or 5810)
BIOL 5810. Principles of Biochemistry II (3) (P: BIOL 3310, 3311; or consent of instructor; CHEM 2760, 2763)
CHEM 2770, 2771. Biological Chemistry and Lab (3,1) (S) (P: CHEM 2650 or 2760)
EXSS 3805. Physiology of Exercise (3) (P: BIOL 2130 or 2140, 2150; EXSS 2850)
HLTH 3515. AIDS HIV Disease in Modern Society (3) (P: HLTH 1000 or 1050 or consent of instructor)
HLTH 4001. Stress Management: Principles and Practices (3) (S)
HLTH 4901, 4902. Prehealth Professions Clinical Field Experience (3,3) (F,S,SS) (P: HLTH 3010, 3020 and consent of instructor)
HLTH 4910. Prehealth Professions Internship (6) (F,S,SS) (P: Completion of all major requirements and consent of program director)
HLTH 5310. Education for Human Sexuality (3) (P: Health education major or consent of instructor)
HPRO 2100. Perspectives in Health Care (2)
HPRO 5000. Seminar in Human Sexual Dysfunctions (3)
PHIL 3281. Introduction to Philosophical Ethics in the Health Care Profession (3) (WI*) (FC:HU)
SOCI 3327. Introductory Medical Sociology (3) (FC:SO) (P: SOCI 2110 or consent of instructor)
SOCI 5200. Seminar in Sociology of Health (3) (P: SOCI 2110 or consent of instructor)
Worksite Health Promotion (39 s.h.):
BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC) (P/C: BIOL 2130)
EXSS 2850. Structural Kinesiology (1) (F,S,SS)
EXSS 3805. Physiology of Exercise (3) (F,S,SS) (P: BIOL 2130 or BIOL 2140, 2150; EXSS 2805)
EXSS 4805. Exercise Evaluation and Prescription Laboratory (1) (F,S,SS) (C: EXSS 4806)
EXSS 4806. Exercise Evaluation and Prescription (3) (WI) (F,S,SS) (P: Health and human performance major or minor; EXSS 3805; or consent of instructor; C: EXSS 4805)
HLTH 4006. Health Promotion in the Workplace (3) (F)
HLTH 4200. Planning and Evaluation in Worksite Health Promotion (3) (F,S,SS) (P: Completion of core courses)
HLTH 4600. Data Analysis for Health Promotion Programming (3) (S) (C: HLTH 4700)
HLTH 4700. Practicum Seminar in Worksite Health Education (3) (S) (P: HLTH 4200)
HLTH 4991. Health Education and Promotion Internship (12) (F,S,SS) (P: Completion of all other major requirements)
Choose 6 s.h. from:
BITE 2112. Introduction to Information Processing Technology (3) (F,S,SS) or MIS 2223. Introduction to Computers (3) (F,S,SS)
EHST 3900. Introduction to Occupational Health (3) (F) (P: 6 s.h. in BIOL, including BIOL 2130; 8 s.h. of general CHEM; or consent of instructor) or ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing); completion of 12 s.h. of industrial technology courses.)
FINA 2244. Legal Environment of Business (3) (F,S,SS)
MGMT 3202. Fundamentals of Management (3) (F,S,SS) (P: ECON 2113)

4. Electives: It is recommended that courses be taken which reinforce content in the physical, social, and behavioral sciences, or provide the student with a community health specialty area such as gerontology, environmental health, or health promotion. Number of elective hours varies by concentration.
http://www.ecu.edu/cs-acad/ugcat/NutrDiet.cfm

**College of Human Ecology**

**Department of Nutrition Science**

*William Forsythe, Chairperson, 148 Rivers Building*

The bachelors of science in nutrition science is a Didactic Program in Dietetics (DPD) approved by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association. CADE is a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the United States Department of Education. All core classes, cognate classes, and foundations curriculum classes listed below must be completed with a C or higher. To declare a major in nutrition science, students must complete all cognate classes with a C or higher and have at least a 2.75 GPA. To continue in the program and to graduate, students must maintain a 2.75 GPA. Students who fall below the minimum GPA will have one semester to raise their GPA. Failure to do so will result in removal from the major.

The Department of Nutrition Science also offers a dietetic internship that is accredited by CADE. (See graduate catalog for details.) Completion of an approved DPD and an accredited dietetic internship or other accredited/approved supervised experience program are required to become a registered dietitian (RD). Completion of the BS degree in Nutrition Science does not guarantee entrance into an internship. Entrance into our internship is competitive and requires admittance into the graduate school, a 3.0 GPA, and 850 GRE score.

**BS in Nutrition Science**

Each NUTR course must be completed with a minimum grade of C. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) including those listed below - 42 s.h.

   CHEM 1150, 1151. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C: MATH 1065; C for 1150: CHEM 1151; C for 1151: CHEM 1150)  
   CHEM 1160, 1161. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P: CHEM 1150, 1151; C for 1160: CHEM 1161; C for 1161: CHEM 1160; RC: MATH 1083 or 1085)  
   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)  
   ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)  
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)

2. Core - 60 s.h.

NUTR 1010. Cultural Foods (3)
NUTR 1300. Introduction to Dietetics Profession (3)
NUTR 1330. Food Safety and Sanitation (1)
NUTR 2105. Nutrition Science (3)
NUTR 2330. Food Science (3) (P: NUTR 1330; C: NUTR 2331)
NUTR 2331. Food Science Laboratory (1) (P: NUTR 1330; C: NUTR 2330)
NUTR 2400. Nutrition Assessment (3) (P: NUTR 2105)
NUTR 3104. Advanced Vitamins and Minerals (3) (P: BIOL 2130, 2131; NUTR 2105)
NUTR 3105. Nutritional Biochemistry and Metabolism (3) (WI) (P: NUTR 2105; P or C: CHEM 2650, 2651; or equivalent)
NUTR 3311. Life Cycle Nutrition (4) (P: NUTR 2105, 2400 or permission of instructor)
NUTR 3330. Financial Management in Dietetics (4) (P: NUTR 2330; nutrition major)
NUTR 3500. Nutrition Research Methodology (3) (WI) (P: NUTR 2105, 3105; C: NUTR 3501; nutrition major)
NUTR 3501. Nutrition Research Methodology Laboratory (1) (P: NUTR 2105, 3105; C: NUTR 3500: nutrition major)
NUTR 3535. Nutrition Education and Counseling (3) (P: NUTR 2400)
NUTR 4300. Professional Preparation in Dietetics (1) (P: Senior standing; nutrition major
NUTR 4312. Medical Nutrition Therapy I (4) (P: NUTR 3105; nutrition major)
NUTR 4313. Medical Nutrition Therapy II (4) (P: NUTR 4312; nutrition major)
NUTR 4330. Food Production Principles of Dietetics (4) (P: NUTR 3330; nutrition major)
NUTR 4331. Food Production in Dietetics Lab (3) (P: NUTR 4330: nutrition major)
NUTR 4500. Community Nutrition (3) (P: Nutrition major)
NUTR 4600. Senior Seminar (3) (P: Senior standing)

3. Cognates - 20 s.h.

BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) (P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160 BIO 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110: CHEM 1100, 1101, or 1100, 1101; P/C for 2111: BIOL 2110)
BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (FC:SC) (P: BIOL 1050, 1051, or 1100, 1101)
BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (FC:SC) (P/C: BIOL 2130)
CHEM 2650. Organic Chemistry for the Life Sciences (4) (F,S) (P: CHEM 1160, 1161)
CHEM 2651. Organic Chemistry Lab for the Life Sciences (1) (F,S) (C: CHEM 2650)
Choose a 3 s.h. statistics course
4. Electives to complete requirements for graduation.

http://www.ecu.edu/cs-acad/ugcat/nursing.cfm

BS in Nursing (BSN)

Minimum degree requirement is 128 s.h. of credit as follows:

1. Foundations curriculum requirements (See Section 4, Foundations Curriculum Requirements for all Baccalaureate Degree Programs), including those listed below. 42 s.h.

   BIOL 2140, 2150. Human Physiology and Anatomy (3,3) (P: 1 CHEM course CHEM 1120 or 1150; 2.75 GPA or consent of instructor; P for 2150: BIOL 2140; C for 2140: BIOL 2141; C for 2150: BIOL 2151)
   BIOL 2141, 2151. Human Physiology and Anatomy Laboratory (1,1) (P for 2151: BIOL 2141; C for 2141: BIOL 2140; C for 2151: BIOL 2150)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   PSYC 3206. Developmental Psychology (3) (WI*) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)
   SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)

   Choose an approved 3 s.h. ethics course

2. Professional nursing core ................................................................. 40 s.h.

   NURS 3040. Pharmacotherapeutics (3) (F,S) (P: Admission to NURS major)
   NURS 3410. Concepts of Pathophysiology for Nursing (3) (F,S) (P: Admission to NURS major; RN students; P/C: NURS 3010)
   NURS 3210, 3211. Nurse As Care Provider (6) (F,S) (P/C: NURS 3020, 3021, 3200, 3270, 3271, 3410)
   NURS 3270, 3271. Clinical Nursing Foundations I (2,0) (F,S) (P: Admission to NURS major)
   NURS 3330, 3331. Nursing Care of Families During the Childbearing Phase (5) (F,S) (P: All required NURS courses below 3330; P/C: NURS 3040, 3370, 3371, 3410)
   NURS 3340, 3341. Nursing Care of Children (5) (F,S) (P: All required NURS courses below 3300; P/C: NURS 3040, 3370, 3371, 3410)
   NURS 3370, 3371. Clinical Nursing Foundations II (2,0) (F,S) (P: NURS 3270, 3271)
   NURS 3510. Nursing Research (3) (F,S,SS) (P: All required NURS courses below 3330; approved statistics course; RN students; P/C: NURS 3010)
   NURS 4010, 4011. Nursing Care of Clients with Alterations in Mental Health (5) (F,S) (P: All required NURS courses below 4000)
   NURS 4020, 4021. Nursing Care of Adults (6) (F,S) (P: All required NURS courses below 4000)

   Upon completion of NURS 3410 and 3510, registered nurses receive placement credit for the remaining core nursing courses.

3. Specialization area (Choose one.)

Professional Nursing (Pre-licensure students) ........................................... 27 s.h.

   NURS 3020, 3021. Health Assessment (3,0) (F,S) (P: Admission to the NURS major)
   NURS 3200. Introduction to Professional Nursing (2) (F,S) (P: Admission to the NURS major)
   NURS 3520. Trends and Issues in Professional Nursing (3) (WI) (F,S,SS) (P: All required NURS courses below 3330)
NURS 4100. Health of the Older Adult (2) (F,S) (P: All required NURS courses below 4000)
NURS 4150. Nursing Leadership (3) (F,S) (P: All required NURS courses below 4000)
NURS 4210, 4211. Nursing Care of Populations and Communities (6) (F,S) (P: All required NURS courses below 4200)
NURS 4500. Theory Capstone (5) (F,S) (P: All required NURS courses below 4200; C: NURS 4210, 4211)
NURS 4511. Clinical Capstone (3) (P: All required NURS courses below 4200; C: NURS 4210, 4211)

Registered Nurse Students

NURS 3010. Foundations in Nursing Informatics (3) (F,S) (P: Hold a current unrestricted license as a registered nurse in NC; completion of required sciences, foundations curriculum and cognate courses)
NURS 3025. Health Assessment and Diagnostic Reasoning (3) (F,S) (P/C: NURS 3010, 3410 or permission of faculty)
NURS 4410. Nursing Management of Complex Health Issues: Individuals and Families (3) (F,S) (P: All required NURS 3000-level courses)
NURS 4420. Nursing Management of Complex Health Issues: Populations and Systems (3)(WI) (F,S) (P: All required NURS 3000-level courses; P/C: NURS 4410)
NURS 4430. Systems, Complex Health Issues, and Nursing (3)(F,S) (P: All required NURS 3000-level courses; P/C: NURS 4420)
NURS 4440. Nursing Leadership and Service Learning I (3) (WI) (F,S) (P: All required NURS 3000-level courses)
NURS 4450. Nursing Leadership and Service Learning II (4) (F,S) (P: All required NURS 3000-level courses)
NURS 4460. Nursing Leadership and Service Learning III (3) (F,S) (P: NURS 4440; P/C: NURS 4450)

4. Cognates

BIOL 2110, 2111. Fundamentals of Microbiology and Laboratory (3,1) (F,S) (FC:SC) (P for 2110: CHEM 1120, 1130 or CHEM 1150, 1160; CHEM 1100 and CHEM 1150; 2.75 GPA or consent of instructor; RP for 2110: BIOL 1050, 1051 or 1100, 1101; P/C for 2111: BIOL 2110)
NUTR 2105. Nutrition Science (3)
An approved 3 s.h. statistics course

5. Electives to complete requirements for graduation.

http://www.ecu.edu/cs-acad/ugcat/ExerSport.cfm

BS in Exercise Physiology

The program provides competencies and knowledge in the field of exercise physiology. Graduates of the program are prepared to pursue further academic training in exercise physiology, physical therapy, medicine, and other allied health careers. A minimum cumulative 2.0 GPA, 32 s.h. foundations curriculum, and successful completion of the health-related physical fitness requirement are required for admission. A minimum grade of C is required in
BIOL 1100, 1101; CHEM 1150, 1151; ENGL 1100, 1200; MATH 1065. Majors must maintain a minimum cumulative GPA of 2.0 and a minimum grade of C is required in BIOL 2140, 2141, 2150, 2151; CHEM 1160, 1161; and all required EXSS courses. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) including those listed below - 42 s.h.
   
   **BIOL 1100, 1101. Principles of Biology and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C for 1101: BIOL 1100)**
   **CHEM 1150, 1151. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P/C: MATH 1065; C for 1150: CHEM 1151; C for 1151: CHEM 1150)**
   **MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)**
   **PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)**

2. Core - 42 s.h.
   
   **EXSS 2000. Introductory Exercise and Sport Science (3) (F,S,SS)**
   **EXSS 2850. Structural Kinesiology (1) (F,S,SS)**
   **EXSS 3805. Physiology of Exercise (3) (F,S,SS) (P: BIOL 2130 or BIOL 2140, 2150; EXSS 2850)**
   **EXSS 3806. Physiology of Exercise Laboratory (1) (F,S) (P: EXSS 3805)**
   **EXSS 3850. Introduction to Biomechanics (3) (F,S,SS) (P: BIOL 2140; EXSS 2850; PHYS 1250, 1251; or consent of instructor)**
   **EXSS 4805. Exercise Evaluation and Prescription Laboratory (1) (F,S,SS) (C: EXSS 4806)**
   **EXSS 4806. Exercise Evaluation and Prescription (3) (WI) (F,S,SS) (P: EXSS 3805; health and human performance major or minor; or consent of instructor; C: EXSS 4805)**
   **EXSS 4809. Exercise Prescription for Clinical Populations (3) (F,S,SS) (P: EXSS 4806)**
   **EXSS 4991. Independent Research in Exercise Physiology (3) (WI*) (F,S) (P: EXSS 4806; or consent of exercise physiology degree director)**
   **EXSS 4992. Research Internship in Exercise Physiology (12) (F,S) (P: Completion of all other requirements for the exercise physiology degree or consent of internship coordinator)**
   **EXSS 5020. Exercise Adherence (3) (P: PSYC 1000; P/C: EXSS 4806; health and human performance major or minor; or consent of dept chair)**
   Choose 6 s.h. approved electives

3. Cognates - 38 s.h.
   
   **BIOL 2140, 2141, 2150. Human Physiology and Anatomy (3,13) (P: CHEM 1120 or 1150; 2.75 GPA or consent of instructor; P for 2150: BIOL 2140; 2.75 GPA or consent of instructor; C for 2140: BIOL 2141; C for 2141: BIOL 2140, 2151)**
BIOL 2141, 2151. Human Physiology and Anatomy Laboratory (1,1) (P for 2151: BIOL 2141; C for 2141: BIOL 2140; C for 2151: BIOL 2150)
BIOL 5800. Principles of Biochemistry I (3) (P: BIOL 3310, 3311; or consent of instructor; CHEM 2760, 2763) or BIOL 3310, 3311. Cellular Physiology (4,0) (F,S,SS) (P: CHEM 2650 or 2750 or 2770)
BIOS 1500. Introduction to Biostatistics (3) (F,S) (P: MATH 1065 or equivalent or consent of instructor)
CHEM 1160, 1161. General Chemistry and Laboratory I (3,1) (F,S,SS) (FC:SC) (P: CHEM 1150, 1151; C for 1160: CHEM 1161; C for 1161: CHEM 1160; RC: MATH 1083 or 1085)
CHEM 2750. Organic Chemistry I (3) (F,S,SS) (P: CHEM 1160, 1161; C: CHEM 2753)
CHEM 2753. Organic Chemistry Laboratory I (1) (F,S,SS) (C: CHEM 2750)
CHEM 2760. Organic Chemistry II (3) (F,S,SS) (P: CHEM 2750; C: CHEM 2763)
CHEM 2763. Organic Chemistry Laboratory II (1) (F,S,SS) (P: CHEM 2750, 2753; C: CHEM 2760)
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)
PHYS 1250, 1260. General Physics (3,3) (F,S,SS) (FC:SC) (P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250)
PHYS 1251, 1261. General Physics Laboratory (1,1) (F,S,SS) (FC:SC) (C for 1251: PHYS 1250 or 2350; C for 1261: PHYS 1260 or 2260)

4. Electives to complete requirements for graduation - 5 s.h.

VIII. College of Health and Human Performance, Department of Recreation and Leisure Studies, Affected Units

http://www.ecu.edu/cs-acad/ugcat/HealthEd.cfm

BS in School Health Education

Students entering the school health degree program must have a minimum cumulative 2.5 GPA. See Section 4, Academic Advisement, Progression and Support, Special Requirements for the BS Degree for Students Preparing to Teach. See Section 8, Academic Programs, College of Education, Licensure, for NC teacher licensure requirements. Minimum degree requirement is **126 s.h.** of credit as follows: Note: These degree requirements are subject to change beginning Fall 2010 pending NC State Board of Education approval of revised licensure program requirements. Students should consult their departmental advisor for specific program information.

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see [Liberal Arts Foundations Curriculum](#)) including those listed below - 42 s.h.
BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
BIOL 1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
BIOL 2130. Survey of Human Physiology and Anatomy (4) (F,S,SS) (P: BIOL 1050, 1051; or 1100, 1101)
HLTH 1000. Health in Modern Society (2) (F,S,SS) (FC:HL)
MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
PSYC 3206. Developmental Psychology (3) (WI*) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)
SOCI 1025. Courtship and Marriage (3) (F,S,SS) (FC:SO)
Choose a history course (FC:SO)
Choose a literature course (FC:HU)

2. Core - 54 s.h.

BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F,S,SS) (P/C: BIOL 2130)
EDTC 4001. Technology in Education (2) (F,S) (P: Admission to upper division)
EDUC 3200. Foundations of American Education (3) (WI*) (F,S,SS) (P: Early experience course or consent of instructor)
EDUC 4400. Foundations of School Learning, Motivation, and Assessment (3) (F,S) (P: Admission to upper division; C: Senior I semester) or PSYC 4305. Educational Psychology (3) (F,S,SS) (P: PSYC 2201 or 2240 or 3206 or 3240 or equivalent)
HLTH 2000. Introduction to Health Education Principles of Public Health Education (3) (F,S,SS) (P: HLTH 1000)
HLTH 2123. Early Experiences for the Prospective Teacher (1) (F) (P: HLTH 1000 or 1050)
HLTH 2125, 2126. Safety Education and First Aid (3,0) (F,S,SS) (P: HLTH 1000 or 1050; C for 2125: HLTH 2126; C for 2126: HLTH 2125)
HLTH 3010. Health Problems I (3) (F,S,SS) (P: BIOL 2130 or 2140; HLTH 1000 or 1050; or consent of instructor)
HLTH 3020. Health Disparities (3) (F,S,SS) (P: HLTH 1000 or 1050; 3010; or consent of instructor)
HLTH 3030. Health Behavior (3) (WI) (F,S,SS) (P: HLTH 1000 or 1050; PSYC 1000)
HLTH 3244. Practices and Procedures in Health for Elementary School (2) (F,S,SS) (P: HLTH 1000 or 1050 and any 2123 course, or consent of the instructor)
HLTH 3355. Alcohol, Tobacco, and Other Drugs Education and Prevention (3) (F)
HLTH 4323. Methods of Teaching Health Education (3) (F,S) (P: Admission to upper division)
HLTH 4324. Internship in Health Education (10) (F,S) (P: Admission to upper division; EDUC 3200; HLTH 2123; completion of HLTH 4323 with a minimum grade of C; PSYC 1000; C: HLTH 4326)
HLTH 4326. Internship Seminar: Issues in Health Education (1) (F,S) (P: Admission to upper division; C: HLTH 4324)
HLTH 5310. Education for Human Sexuality (3) (P: Health education major or consent of instructor)
NUTR 1000. Contemporary Nutrition (3) or NUTR 2105. Nutrition Science (3)
READ 3990. Teaching Reading in the Content Areas in the Secondary School (2) (F,S,SS)
SPED 4010. Effective Instruction in Inclusive Classrooms (2) (F,S) (RP: SPED 2000)

3. Approved academic concentration (A maximum of 6 s.h. may count toward foundations curriculum requirements.) - 18-24 s.h.
4. Electives to complete requirements for graduation.