

DEGREE REQUIREMENTS

COLLEGE OF ARTS AND SCIENCES

(<http://www.uncw.edu/cas/>)

David P. Cordle, *dean*

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The College of Arts and Sciences offers a variety of programs in the liberal arts leading to the Bachelor of Arts, Bachelor of Fine Arts in creative writing, Bachelor of Music, Bachelor of Science, Bachelor of Social Work, Master of Arts, Master of Fine Arts in creative writing, Master of Science and Doctor of Philosophy in marine science degrees. To implement these programs, the college provides instruction, research, and creative opportunities in the fine arts and humanities as well as in the natural, physical, and social sciences. The 23 academic departments in the college provide courses of study in each of these areas, in addition to interdepartmental programs in Africana studies; American studies; Asian studies; classical studies; European studies; forensic science; gerontology; information technology; journalism; Latin American studies; Middle East and Islamic studies; Native American studies; postcolonial studies; science, the humanities and society; and women's studies. Pre-professional programs in allied health, health-related careers, dentistry, law, medicine, optometry, pharmacy, physical therapy, podiatry and veterinary medicine, a 2+2 and 3+2 program in engineering, and a 3+2 program in electrical engineering are also offered in the college. Additionally, the College of Arts and Sciences offers a certificate in geographic information science, a certificate for professional writing, and a certificate in publishing.

The College of Arts and Sciences strives in all of its degree programs to nurture creative thinking, intellectual curiosity, and academic integrity in our students while providing them with a solid foundation of knowledge in their chosen field. Upon completion of their degree program, students will have the necessary preparation for their chosen career or advanced studies.

Applied learning is a hallmark of the student experience in the College of Arts and Sciences. Each of the college's twenty-three departments requires an applied learning experience as a part of the curriculum for its undergraduate majors. Examples include faculty-directed research, internships, service learning, and capstone courses and projects, all of which challenge students to integrate various strands of knowledge and to apply that knowledge to broader, real-world or real disciplinary situations. Through applied learning, students in the college gain direct hands-on experience with the skills of their major fields as an essential part of their preparation for life and career.

Degree requirements for all undergraduate majors and minors available in the College of Arts and Sciences are listed below. Requirements for the graduate degrees are listed in the Graduate School catalogue, while those for professional, pre-professional, and special programs are listed in those sections of this catalogue. See the index below for the beginning page number of the specific degree requirements and course descriptions. Please note that all internship courses (498 designation) offered by departments within the college have a prerequisite of a minimum overall grade point average of 2.00; specific departments may require a higher overall average, as noted in their internship course descriptions.

COLLEGE OF ARTS AND SCIENCES

Africana Studies.....	116, 187	International Affairs	152
American Studies.....	116, 187	Italian	133, 262
American Sign Language	133, 194	Japanese	133, 262
Anthropology	117, 187	Jazz Studies.....	148
Art.....	118, 191	Journalism.....	141
Art History.....	118, 190	Latin	133, 262
Asian Studies.....	119	Latin American Studies	142
Athletic Training.....	136, 195	Marine Biology	120
Biology.....	119, 196	Mathematics.....	143, 263
Biology and Marine Biology	119	Mathematics and Statistics	142
Chemistry	121, 202	Middle East and Islamic Studies	145
Chemistry and Biochemistry	121	Music.....	146, 271
Chinese	133, 204	Music Education.....	147
Choral Music.....	148	Music Performance	147
Classical Studies	122, 204	Native American Studies.....	148
Communication Studies.....	122, 206	Oceanography.....	134
Community Health Education	138	Parks and Recreation Management.....	139, 300
Computer Engineering.....	124	Philosophy	149, 281

Computer Science	123, 214	Philosophy and Religion.....	149
Creative Writing	125, 212	Physical Education.....	138, 286
Criminal Justice	154, 210	Physics.....	149, 290
Criminology.....	154, 210	Physics and Electrical Engineering	150
Digital Arts	124	Physics and Physical Oceanography	149
Electrical Engineering.....	150, 182	Political Science	152, 292
Engineering	124, 129, 150, 182, 228	Portuguese.....	135, 296
English.....	126, 228	Postcolonial Studies.....	151
Environmental Engineering.....	129, 182	Pre-Engineering	182, 228
Environmental Sciences	128, 234	Pre-Professional Programs	182
Environmental Studies.....	127, 234	Professional Writing	126, 127
European Studies	129	Psychology.....	151, 297
Film Studies	130, 240	Public Administration.....	153
Fine Arts	131, 238	Public and International Affairs.....	152
Foreign Languages and Literatures	131, 237	Publishing	126
Forensic Science	133	Recreation Management.....	139, 300
French	131, 238	Recreation Therapy.....	139, 302
Geographic Information Science.....	134	Religion	149, 283
Geography.....	134, 245	Russian	133, 303
Geography and Geology.....	134	Science, the Humanities and Society.....	153, 307
Geology	134, 248	Social Work.....	153, 314
German.....	132, 244	Sociology	155, 307
German Studies Consortium	104	Sociology and Criminology.....	154
Gerontology	135, 251	Spanish	132, 310
Health	138, 252	Statistics.....	145, 312
Health and Applied Human Sciences	136	Studio Art	118
History	140, 253	Theatre.....	156, 316
Information Technology	141	Women's Studies	157, 319

DEPARTMENTAL REQUIREMENTS

AFRICANA STUDIES (INTERDEPARTMENTAL)

Dr. A. McDaniel, Dr. S. Murrell, *coordinators*.

The College of Arts and Sciences offers an interdisciplinary minor in Africana studies which provides students with an understanding of the many facets of the African-American experience. The minor encompasses courses in history, English, political science, sociology, criminal justice, criminology, communication studies and philosophy and religion. Students should contact the coordinators in the Department of Communication Studies or the Department of Philosophy and Religion for additional information.

Requirements for a Minor in Africana Studies: To earn a minor in Africana studies requires 21 hours, including twelve hours in core courses. The remaining hours may be taken from the electives below, including at least 3 hours at the 300 level or higher.

Core Courses: AFN 130, ENG 232, HST 261, and PLS 340.

Electives: COM 390, 391; CRM 370; ENG 355; HST 371, 372, 373, 374; MUS 116, 119; PLS 330; PAR 377; SOC 325.

Students must earn at least a "C" (2.00) average in courses counted for a minor in Africana studies.

Courses taken to fulfill major requirements cannot be used to fulfill requirements for the Africana studies minor.

AMERICAN STUDIES (Interdepartmental)

Dr. L. Rohler, Jr., *coordinator*.

The College of Arts and Sciences offers an interdisciplinary minor in American studies. The minor provides students with the opportunity to develop an understanding of the nexus of ideas and events that shape the American experience and the symbolic

representation of these ideas and events in American literature and art. Students should contact the coordinator in the Department of Communication Studies for additional information.

Requirements for a Minor in American Studies: To earn a minor in American studies requires completion of 21 hours, including 9 hours of core courses and 12 hours of electives. At least 3 hours must be at the 300 level or above. No more than 9 hours may be taken from any one department.

Core Courses: ENG 223 or 224; HST 201 or 202; PAR 205 or 242.

Electives: any courses above not selected as core courses; AMS 200; ARH 309, 310; COM 290, 450; ENG 232, 350, 351, 352, 353, 355, 384; HST 330, 331, 333, 339, 346, 347, 348, 352, 353, 354, 355, 356, 357, 358; MUS 116; PAR 351, 352; PLS 208, 272, 300, 301, 307, 309, 340, 405, 407, 415; SOC 200, 304.

Students must earn at least a "C" (2.00) average in courses counted for a minor in American studies.

Courses taken to fulfill major requirements or requirements for another minor may not be used to fulfill requirements for this minor.

ANTHROPOLOGY

<http://www.uncw.edu/ant>

Dr. P. Lerch, *chair*. Dr. Albert, Dr. Alexander, Dr. McCall, Dr. Reber, Dr. S. Simmons.

The Department of Anthropology offers a major in anthropology within the context of the liberal arts environment. Specific goals include: (1) preparation in all facets of anthropology; (2) awareness of human biological and cultural diversity; and (3) promotion of critical thinking and effective communication skills. Graduates will be ready for immediate employment or advanced studies in anthropology or allied fields. Small classes, seminars, field studies, and internships enhance the learning environment in anthropology.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in anthropology a student must successfully complete ANT 210 or 326.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in anthropology a student must successfully complete ANT 440, 450 or COM 110.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. degree in anthropology a student must successfully complete ANTL 207.

Requirements for a Major in Anthropology for the B.A. Degree: 37 hours. To be distributed as follows:

Core: 13 hours. ANT 206, 207, ANTL 207, ANT 210, 450.

Subfields: 18 hours from the three subfields (300-400 level) with a minimum of 6 hours from each subfield:

Archaeology: ANT 307, 308, 310, 311, 312, 315, 411, 412, 435, 440, 455.

Biological/Physical: ANT 320, 322, 324, 326, 426, 430.

Cultural: ANT 301, 303, 304, 305, 309, 317, 387, 445.

Electives: 6 hours distributed as follows:

Any 200-, 300-, or 400- level anthropology course: 3-6 hours.

Linguistics: 0-3 hours. ANT 208; ENG 320, 322.

Students contemplating a professional career in anthropology are urged to study a foreign language and acquire basic skills in computer science and statistics. Anthropology advisors may recommend additional courses in the sciences, humanities, or mathematics commensurate with individual career plans.

A "C" (2.00) grade point average or better is required among all courses used to satisfy the anthropology major and a "C" grade or better is required in each required anthropology course counted toward the major.

Requirements for Teacher Licensure in Social Studies: In addition to completing requirements for the major, anthropology majors seeking licensure in social studies must complete the Teacher Education Program requirements and a minimum of 21 collateral hours including HST 101, 102, 104, 201, 202 and PLS 101, and at least one course in each of the following areas: economics and geography.

For information on the Teacher Education Program admissions criteria and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

Requirements for a Minor in Anthropology: 21 hours. ANT 206, 207, 210, and 12 additional hours at least 6 of which are at the 300-400 level. ANTL 207 may be taken as an elective but is not required. In selecting the courses to fulfill the minor requirements, students are strongly encouraged to consult with the anthropology faculty.

A "C" (2.00) grade point average is required among anthropology courses used to satisfy the above requirements.

ART AND ART HISTORY

<http://www.uncw.edu/art>

~~Ms. A. Conner, Mr. D. Furst~~, *chair*. ~~Mr. Furst, Ms. Conner~~, Dr. Hudson, Mr. Irvine, Dr. Kirschke, Dr. Moore, Dr. Olson, Ms. Steele, Ms. Toll, Mr. Wilcox, Mr. Wilkinson.

The Department of Art and Art History offers majors in studio art and art history that prepare students for advanced study in their chosen field or for artistic and related careers that require the baccalaureate degree.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in art a student must successfully complete ART 260, 265, 339, 360 or CSC 105 for studio art or ARH 476 for art history.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in art a student must successfully complete an oral defense of their senior exhibit for studio art or ARH 476 or 495 for art history or any other approved oral intensive course (see list on page 102).

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. degree in art a student must successfully complete ART 476 for studio art or ARH 476 for art history.

Requirements for a Major in Art History for the B.A. Degree: 43-45 hours. ARH 201, 202, 308 and 476; 6 hours of studio art to be chosen from ART 101, 102, 111, 112; 3 hours of history at the 300-400 level; 24 hours in art history at the 300-400 level. No more than 3 hours of ARH 491 or 3 hours of ARH 498 may be counted toward the major.

A grade of "C" (2.00) overall average is required for all courses counted toward the major, and no more than one "C-" grade may count.

To complete a double major in art history and studio art, a student must complete ART 101, 102, 111 or 112, 211, and 27 hours chosen from at least three different studio areas.

Requirements for a Minor in Art History: 24 hours. ARH 201, 202, 308; 15 hours of 300-400 level art history. No more than 3 hours of ARH 491 or 3 hours of ARH 498 may be counted towards the minor. Courses counted towards a major in studio art (i.e. ARH 201, 202, 308) cannot be counted toward completion of minor requirements. Nine additional hours of art history courses may be chosen to fulfill minor requirements for studio art majors. A grade of "C" (2.00) or better is required for each course counted toward the minor.

Requirements for a Major in Studio Art for the B.A. Degree: 55 hours. ART 101 and 102; ART 111 or 112; ART 211, 476; ARH 201, 202, 308 and 6 additional credits in art history; and 27 hours chosen from at least three different studio areas.

A grade of "C" (2.00) overall average is required for all courses counted toward the major, and no more than one "C-" grade may count.

To complete a double major in studio art and art history, the student must complete ARH 476 and 27 additional hours in art history at the 300-400 level.

Requirements for a Minor in Studio Art: 21 hours. ART 101, 102; 15 hours of 200-400 level studio art courses chosen from at least two different areas. At least 6 hours must be 300-400 level. No more than 3 hours of ART 491 or 3 hours of ART 498 may be counted towards the minor. Courses counted toward a major in art history (i.e. ART 101, 102) cannot be counted toward

completion of minor requirements. Six additional hours of studio art courses may be chosen to fulfill minor requirements for art history majors. A grade of "C" (2.00) or better is required for each course counted toward the minor.

Courses taken toward a major cannot be counted toward a minor and vice versa.

ASIAN STUDIES (Interdepartmental)

Ms. Y. Kano, *coordinator*.

The College of Arts and Sciences offers an interdisciplinary minor in Asian studies. The minor provides students with a multifaceted understanding of Asian societies, histories, languages, political systems, and geographies. For additional information, students should contact the coordinator in the Department of Foreign Languages and Literatures.

Requirements for a Minor in Asian Studies: 21 hours. A minor in Asian studies requires a total of 21 credit hours, distributed as 12 hours of core courses and 9 hours of designated electives. The core consists of the following courses: HST 103 or 104, PAR 232, PLS 317 or 339, and 3 hours of a foreign language (either JPN 101 or transfer credit of study of another Asian language). The remaining 9 hours may be chosen from GGY 181, 388; HST 103 or 104, 360, 361, 363, 365, 366, 497; JPN 101, 102, 201, 202, 211; PAR 370, 371, 372, 375 and PLS 317, 339. At least six credits of the total 21 must be taken at the 300-level or above.

Substitutions may be approved for topic courses, seminars, directed individual study, field work, and/or study abroad that focus primarily on Asia. Students must have a grade of "C-" or better for each course counted towards the minor and an overall "C" (2.00) average or better for all courses counted for the minor.

BIOLOGY AND MARINE BIOLOGY

<http://www.uncw.edu/bio>

Dr. M. Posey, chair. Dr. Arbogast, Dr. Baden, Dr. Bailey, Dr. Ballard, Dr. Borrett, Dr. Cahoon, Dr. Chandler, Dr. Chapman, Dr. Clavijo, Dr. Dillaman, Dr. Dodd, Dr. Durako, Dr. Emslie, Dr. Finelli, Dr. Frampton, Dr. Hagley, Dr. Hosier, Dr. Kinsey, Dr. Koopman, Dr. Lankford, Dr. Lema, Dr. McCartney, Dr. Melroy, Ms. Moore, Dr. Pabst, Dr. Pawlik, Dr. Potts, Dr. Roer, Dr. Rommel, Dr. Satterlie, Dr. Scharf, Dr. Shafer, Dr. Sizemore, Dr. Song, Dr. Southwood, Dr. Stapleton, Dr. Szmant, Dr. A. Taylor, Dr. Tomas, Dr. van Tuinen, Dr. Webster, Dr. Wilbur.

A student may declare a major in biology or marine biology after completing BIO 201 and 202, or equivalent courses, with a grade of "C" (2.00) or better in both courses, and the completion of a minimum of 24 semester hours of credit.

Transfer students wishing to declare a major in biology or marine biology must meet admission requirements, which are:

- a. completion of 30 semester credit hours from an accredited four-year college or university and a 2.50 grade point average in two biology courses with labs, preferably BIO 201 and 202, or equivalents; or,
- b. completion of an associate degree from an accredited two-year college and a 2.50 grade point average in two biology courses with labs.

Students who apply to the Department of Biology and Marine Biology and do not meet the admission requirements will be considered pre-majors. All students who desire a degree in biology or marine biology must meet the admissions requirements and declare a major to be eligible to graduate.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. or B.S. degree in biology or the B.S. degree in marine biology a student must successfully complete two of the following: BIO 335, 345, 366, 488, and 495 or BIOL 495.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. or B.S. degree in biology or the B.S. degree in marine biology a student must successfully complete either BIO 495 or BIOL 495.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. or B.S. degree in biology or the B.S. degree in marine biology a student must successfully complete one of the following: honors in any science department (BIO 499, CHM 499, EVS 499, GLY 499, MAT 499, PSY 499, PHY 499); directed individual study involving hands-on experience in any science department (BIO 491, CHM 491, EVS 491, GLY 491, MAT 491, PSY 491, PHY 491); BIO 498, 493; formal student teaching experience taken for UNCW credit (e.g. EDNL 406, EDN 409, 411); BIO 480 or BIOL 495.

Requirements for a Major in Biology for the B.A. Degree: 51 hours. BIO 201 and 202, which must be taken early in the program of study, BIO 495 or BIOL 495, completion of a minimum of 34 hours chosen from biology courses numbered above 299, and CHM 101-102. A "C" (2.00) or better average is required on all BIO courses above 200.

This is a flexible program that can be designed by a student and an advisor to meet personal educational goals and interests that may or may not include graduate study. The program may be used to meet a set of specific requirements; for example, certification for teaching at the secondary school level. Students in this major are qualified for a wide array of positions working in the biological sciences.

Requirements for a Major in Biology for the B.S. Degree: 70 hours. BIO 201 and 202 which must be taken early in the program of study, BIO 335 and BIOL 335, BIO 325 and BIOL 325 or BIO 340 or BIO 345 and BIOL 345 or BIO 240 and 241, BIO 366 and BIOL 366, and BIO 495 or BIOL 495. A minimum of 19 hours chosen from BIO courses numbered above 299. No more than 4 hours from BIO 491 can be counted towards the 19 elective hours. CHM 101-102, CHM 211 and CHML 211, CHM 212 and CHML 212 or BIO 465 and BIOL 465; PHY 101-102; MAT 151 or 161 and STT 215. A "C" (2.00) or better average is required for BIO courses above 299.

This program is designed to meet the needs of biology majors who may wish to pursue further education in graduate school in biology or professional schools in the health sciences. The sequence of courses conforms to entrance requirements prescribed in publications of the Association of American Medical Colleges, the American Association of Dental Schools, and the Council on Optometric Education of the American Optometric Association. Working closely with an advisor, students may select elective courses tailored to individual needs, as follows:

Pre-health Professional: BIO 315, 316, 320, 325, 371, 415, 425, 459, 465

Conservation Biology: BIO 311, 313, 314, 318, 356, 357, 358, 368, 430, 452, 456, 466, 475, 482

Students planning to attend graduate school are also encouraged to take CHM 235; MAT 152 or MAT 162; CSC 112, 121. Students interested in health professional schools should visit <http://people.uncw.edu/ballardt> and review the advising manual posted there.

Requirements for a Major in Marine Biology for the B.S. Degree: 75 hours. BIO 201 and 202, which must be taken early in the program of study; BIO 335 and BIOL 335, BIO 325 and BIOL 325 or BIO 340 or BIO 345 and BIOL 345, BIO 362, BIO 366 and BIOL 366, and BIO 495 or BIOL 495. A minimum of 8 hours chosen from BIO 312 or 313, BIO 318, and BIO 357 and BIOL 357. A minimum of 13 hours chosen from BIO courses numbered above 299. No more than 4 hours from BIO 491 can be counted towards the 13 elective hours. CHM 101-102, CHM 211 and CHML 211; GLY 150; PHY 101-102; MAT 151 or MAT 161, and STT 215. A "C" (2.00) or better average is required for BIO courses above 299.

The UNCW marine biology curriculum is a unique baccalaureate program in the university system. It includes a strong foundation of biology with an emphasis in marine biology at the junior and senior levels. Full use is made of the natural laboratory provided by the adjacent Atlantic Ocean through extensive field work in many marine biology and biology courses. The curriculum is flexible enough to meet the individual needs of the student enabling preparation for graduate studies or for teaching and research careers available to one with the baccalaureate degree.

Requirements for a Minor in Biology: 21 hours. BIO 201 and 202; 2 courses (with or without laboratory) selected from BIO 335 or 366, or one from 325 or 340 or 345; and 7 additional hours in biology at the 300-400 level, one of which must be a laboratory course.

A "C" (2.00) or better average is required on courses counted towards the minor in biology.

Requirements for Teacher Licensure in Biology: In addition to completing the requirements for a degree in biology or marine biology and the other requirements of the Teacher Education Program, the following courses are required for licensure: BIO 160 or BIO 335 and BIOL 335, BIO 190 or 425, BIO 315, BIO 325 and BIOL 325 or BIO 340 or BIO 345 and BIOL 345, BIO 366 and BIOL 366; GLY 101 or 150, and PHY 101 or 105. Additionally, to earn Secondary Science Licensure students must select at least 21 hours from three physical science areas. A minimum of two courses from each discipline, including PHY 260, is required.

For information on the Teacher Education Program admissions criteria and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

CHEMISTRY AND BIOCHEMISTRY<http://www.uncw.edu/chem>

Dr. J. Reeves, *chair*. Dr. A. Almeida, Dr. P. Almeida, Dr. Avery, Dr. Baden, Dr. Halkides, Dr. Hancock, Dr. S.B. Jones, Ms. C. Kieber, Dr. R. Kieber, Mr. Lancaster, Dr. H. Lee, Dr. Martin, Ms. McCreery, Dr. Mead, Dr. Messina, Dr. Morgan, Dr. Seaton, Dr. Skrabal, Dr. Varadarajan, Dr. C. Ward, Dr. Willey, Dr. Wright.

The Department of Chemistry and Biochemistry offers two programs leading to undergraduate degrees. The Bachelor of Science degree, certified by the American Chemical Society, prepares students intending to pursue a graduate degree or a career in chemistry. The Bachelor of Arts degree provides a broad chemistry-based background in preparation for a chemistry-related career or for those planning to teach chemistry. The minor in chemistry is designed for students who are majoring in other disciplines but would like additional coursework in chemistry.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. or B.S. degree in chemistry a student must successfully complete CHM 101 and 102.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.S. or B.A. degree in chemistry a student must successfully complete CHM 495.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. and B.S. degree in chemistry a student must successfully complete CHM 495.

Requirements for a Major in Chemistry for the B.A. Degree: 57 hours. BIO 201; CHM 101-102, CHM 211-212, CHML 211-212, CHM 235, CHML 235, CHM 312, 321, CHM 445, 495; MAT 161-162; PHY 101-102 or PHY 201-202; and at least seven semester hours including one laboratory course from CHML 312, 321, 420, 445; CHM 365, 377, 380, 415, 417, 420, 425, 435, 466, 467, 475, 478, 485, 486, 490, 491*, 498* and 499*. (*If 491, 498 or 499 is used, the student must take a total of 3 credit hours in 498, from 1 to 4 hours in 491 or student may count 4 of the 6 credit hours taken as 499 for credit toward the major.)

An overall grade point average of "C" (2.00) is required in all chemistry courses counted toward the major.

The following courses are recommended electives for some particular areas of interest:

Environmental Chemistry: BIO 202; CHM 377, CHML 377; EVS 195, 495; GLY 120, and STT 215.

Marine Chemistry: BIO 202, 362; CHM 475; and GLY 150.

Industrial Chemistry: CHM 365, 435, CHML 445, CHM 485; ACG 201 and either QMM 280 or STT 215.

Premedical Science: BIO 202; CHM 365, 417, 466, 467

Requirements for a Major in Chemistry for the B.S. Degree: BIO 201; CHM 101-102, 211-212, CHML 211-212, CHM 235, CHML 235, CHM 250, 312, CHML 312, CHM 321, CHML 321, CHM 365, 420, CHML 420, CHM 435, 445, CHML 445, CHM 495; MAT 161-162, 261, and 335 or 361; PHY 101-102 and 201 or PHY 201-202; and one of the following options:

Option 1. General. 76 hours. Three hours from the following: CHM 415, 417, 425, 466, 467, 485, 486, 491**, and 499**

Option 2. Biochemistry. 81 hours. CHM 466, 467, and 3 hours from the following: BIO 325, 425; CHM 491**, or 499**. For either CHM 491 or 499 the subject matter must be biochemical in focus.

An overall grade point average of "C" (2.00) is required in all chemistry courses counted toward the major.

Students working for the B.S. degree should arrange their work so as to take CHM 321 and 420 in the junior year.

(**If 491 or 499 is used, the student must take a total of 3 credit hours in 491 and may count only 3 of the 6 credit hours taken as 499 for credit toward the major. A comprehensive written report and an oral presentation are required.)

Requirements for a Minor in Chemistry: 22 hours. CHM 101-102, CHM and CHML 211-212, or CHM and CHML 211 and 235; and 6 additional hours in chemistry at the 300-400 level.

A "C" or better on each chemistry course, and an overall average of "C" (2.00) in all chemistry courses.

Requirements for Teacher Licensure in Chemistry: In addition to completing the requirements for a major in chemistry, students must satisfy the professional education requirements. For Secondary Teacher Licensure in general science as well as chemistry an additional BIO course, PHY 260, and two courses from GLY 101, 120, and 150 are required.

For information on the Teacher Education Program admissions criteria and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the

Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

COMBINED B.S. (CERTIFIED)/M.S. DEGREE

The Department of Chemistry and Biochemistry offers an accelerated masters degree option for our best prepared and most successful undergraduate students. Students who have completed 50 hours of chemistry and collateral courses required for the B.S. in chemistry degree with a GPA of 3.50 or higher by the middle of the junior year may earn both an ACS certified Bachelor of Science and a Master of Science degree in chemistry in as little as five years. The option permits 6 hours of coursework (CHM 445/545 and CHM 491/591 or CHM 499/591) to be counted for both the undergraduate and graduate degree. Acceptance into this program requires a faculty research advisor within the department and acceptance into the master's degree program. Students will:

- fulfill the ACS Bachelor of Science requirement in inorganic chemistry by taking CHM 545 (Inorganic Chemistry, 3 credit hours) preferably in the second semester of their third year. Both undergraduate and graduate credit will be awarded for this course.
- fulfill part of the ACS laboratory requirements by counting a total of 3 hours (145 lab hours) of research preferably performed during the summer session between the 3rd and 4th year toward the B.S. degree (3 credit hours of CHM 491 or 499), and an additional 3 credit hours (145 lab hours) of research (CHM 491/591 or 499/591) preferably performed during the fall semester of the fourth year toward both the B.S. and M.S. degrees.
- count 4 graduate courses (12 semester hours) as undergraduate electives.
- complete the basic studies requirements.
- complete the M.S. degree requirements by taking 16 credit hours of graduate course work, preferably in the fall and spring semesters of the 4th year, 3 credit hours of DIS (CHM 591), preferably in the summer between the 4th and 5th year, and 8 credit hours of graduate courses (thesis research and seminar), preferably in the 5th year. Up to one additional credit hour of graduate thesis work could be taken during the summer session immediately following the 5th year.

CLASSICAL STUDIES (Interdepartmental)

Dr. A. Deagon, *coordinator*.

The College of Arts and Sciences offers an interdisciplinary minor in Classical Studies. The minor provides students with a multifaceted understanding of the civilizations of ancient Greece and Rome, as well as of the Western foundations of modern intellectual traditions. Students complement core requirements with studies in the fine arts, literature, political science, history and civilization, philosophy and religion, and ancient languages. Students should contact the coordinator in the Department of Foreign Languages and Literatures for additional information.

Requirements for a Minor in Classical Studies: 18 hours. Core (6 hours): ARH 201; CLA 210 (ENG 210); PAR 201. Electives (12 hours): LAT 102, 201, 202, 491; CLA 209 (ENG 209), 330, 345, 491; ARH 301; HST 306; PAR 141, 231, 302, 303.

A "C" (2.00) or better average is required on courses counted toward the minor in Classical Studies.

COMMUNICATION STUDIES

<http://www.uncw.edu/com>

Dr. R. Olsen, *chair*. Dr. Bolduc, Mr. Bollinger, Dr. Brubaker, Dr. Brunson, Ms. Bulger, Ms. Chin, Dr. Comeaux, Dr. Fellows, Dr. A. McDaniel, Dr. McKinney, Dr. Noor Al-Deen, Dr. Olsen, Ms. Pursuit, Dr. Pullum, Mr. Pezzuolo, Dr. Rohler, Dr. Tallant, Mr. Trimble, Dr. Weber.

The Department of Communication Studies offers a diverse undergraduate curriculum integrating application with theory, providing majors a degree program in which the philosophy, practice, criticism, and study of communication are emphasized and balanced. Majors are afforded the opportunity to customize their academic experience in preparation for both post-graduate education and professional careers across a wide spectrum of discipline specializations.

A student may apply to the communication studies program and become a pre-communication studies (PCOM) major after earning a minimum 24 semester credit hours and a grade of "B" or above in COM 105. A PCOM major becomes a

communication studies (COM) major by earning a grade of “B” or above in COM 200. All UNCW continuing and transfer students are subject to this gateway at the time of application.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in communication studies a student must successfully complete CSC 105.

Oral Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in communication studies a student must successfully complete COM 110.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. degree in communication studies a student must successfully complete COM 490. Additional elective opportunities include COM 491, 498, 499.

Requirements for a Major in Communication Studies for the B.A. Degree: 42 hours. CSC 105, COM 105, 110, 200, 340, 341 and 490 plus 21 additional hours of communication studies coursework. At least 12 of these 21 hours must be at the 300 or 400 level. At least three of these 12 must include a 400-level course other than COM 491 or 498. With respect to these 21 hours, note the following restrictions on the maximum number of credit hours from these courses: COM 104 (0 hours), COM 160 (0 or 3 hours), COM 216 (6 hours), COM 295 (6 hours), COM 491 (0 hours), COM 495 (6 hours), COM 498 (3 hours).

A minimum “C” (2.00) average across the seven core courses and 21 additional hours of communication studies coursework is required. Differently titled courses with the numbers 295 or 495 may be repeated for additional credit.

A maximum number of credit hours may be counted toward graduation from these courses as follows: COM 216 (8 hours), COM 491 (9 hours), COM 498 (12 hours).

COM 160 may be used to fulfill basic studies or be counted toward the COM major but not both.

COMPUTER SCIENCE

<http://www.uncw.edu/csc>

Dr. S. Narayan, *chair*. Dr. Adhar, Dr. Berman, Mr. Bradley, Dr. C. Ferner, Ms. M. Ferner, Dr. Guinn, Dr. E. Patterson, Dr. L. Patterson, Dr. Ricanek, Dr. Simmonds, Dr. Tagliarini, Mr. Tompkins, Dr. Vetter.

The Department of Computer Science offers two programs of study leading to the Bachelor of Science degree in computer science. Option 1 is designed to prepare students for careers in computer programming, systems analysis, or graduate work in computer science. Option 2 is designed to give students a sound background in computer science and the opportunity for in-depth study of a computer science application area. The department offers courses in computer networking, computer architecture, web design and development, database management systems, parallel computing, computer graphics, artificial intelligence, and software engineering. Thus, the program of study can be tailored to a student’s specific area of interest.

Students must have good analytical and problem-solving skills to be successful in computer science. In this regard, students need appropriate preparation in mathematical sciences. In addition, communication and reasoning skills are an important factor in a student’s success both in college and in a career in computer science.

Students may declare a major in computer science after completion of CSC 100, 121, 133, and 221 with a grade point average of at least 2.50 on these four courses.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.S. degree in computer science a student must successfully complete CSC 121.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.S. degree in computer science a student must successfully complete CSC 495 or any other approved oral communication intensive course (see list on page 102).

Applied Learning Requirement: To satisfy the applied learning requirement for the B.S. degree in computer science a student must successfully complete CSC 450 or 455.

Requirements for a Major in Computer Science for the B.S. Degree: A student must complete one of the following options to fulfill the degree requirements. A grade point average of “C” (2.00) or better computed over all the courses used to fulfill the requirements of the major is required; in addition, a grade point average of “C” (2.00) or better computed over all the CSC courses used to fulfill the requirements of the major is required.

Option 1. 70 hours. This option emphasizes the study of computers as systems. Students selecting this option are prepared for careers involving systems analysis or systems integration, or for graduate studies in computer science. CSC 100, 121, 133, 221, 242, 332, 340, 342, 360, 385, 434, 450, 455; 9 additional hours of 300-400 level CSC courses approved by the advisor; MAT 161, 162; STT 215; one of the sequences PHY 201-202, BIO 240 and 241, or CHM 101-102 with labs; one additional course chosen from CHM 101 with lab (if not selected as part of the two course sequence), CHM 211 and CHML 211, GLY 101, GLY 120 and GLYL 120, PHY 201 (if not selected as part of the two course sequence), PHY 211, BIO 201, 202, 240 (if not selected as part of the two course sequence).

Option 2. 67-74 hours (core plus concentration). This option is designed to give students a sound background in computer science and the opportunity for in-depth study of a computer science application area. CSC 100, 121, 133, 221, 242, 332, 344, 360, 385, 434, 450, 455; MAT 161, 162; QMM 280 or STT 215; 6 additional hours of 300- 400-level CSC courses approved by the advisor.

Student selected concentration provides an opportunity for an in-depth study of a computer science application area. Select one of the following concentrations:

- Business Concentration: ACG 201, 203; ECN 221, 222; FIN 335; MGT 350; MKT 340.
- Biology Concentration: Complete requirements for the biology minor.
- Chemistry Concentration: Complete requirements for the chemistry minor.
- Digital Art Concentration: Complete requirements for the digital arts minor.
- Geographic Information Science (GIS) Concentration: Enroll in and complete requirements for the GIS certificate program.
- Statistics Concentration: Complete requirements for the statistics minor.

Requirements for a Minor in Computer Science: 21 hours. CSC 100, 121, 133, 221, 332, and 6 additional CSC hours at the 200 level or above, including at least 3 at the 300-400 level.

An overall quality point average of “C” (2.00) or better is required for all courses counted toward the minor.

Requirement for a Minor in Digital Arts: 24 hours. A minor in digital arts requires completion of 24 hours, including 18 hours of core courses and 6 hours of electives. At least 3 elective hours must be at the 300 level or above, and at least 3 elective hours must be chosen from outside a student’s major department.

Core Courses: ART 101, 260; CSC 112 or 121 (or other approved course), CSC 204, 220 (ART 220) (FST 220), and COM 280 or FST 201. ART 101 is a prerequisite for ART 260. ART 260 should also be taken before CSC 204 and before CSC 220 (ART 220) (FST 220).

Electives: CSC 255, 320, 370, 421, 430 (FST 430), 475, 491; ART 280, 311, 312, 320, 339, 341, 343, 360, 411, 412, 475, 491, 495; COM 160, 211, 260, 365, 380, 385, 460, 480, 485, 489, 491; CRW 210; FST 220, 301, 302, 318, 320, 330, 331, 332, 333, 368, 392, 393, 394, 397, 398, 430 (CSC 430) 495, 497; MUS 110, 210, 310, 491; THR 211, 305, 411.

Students must earn at least a “C” (2.00) average in courses counted for a digital arts minor.

THE THREE-PLUS-TWO PROGRAM IN COMPUTER SCIENCE AND ELECTRICAL OR COMPUTER ENGINEERING

Dr. K. Diehl, Dr. S. Narayan, *advisors*.

The Three-Plus-Two Computer Science and Electrical or Computer Engineering Program is a cooperative agreement between the University of North Carolina Wilmington Computer Science Program and the North Carolina State University Electrical and Computer Engineering Program. The program gives students the opportunity to earn a Bachelor of Science degree in computer science from the University of North Carolina Wilmington and a Bachelor of Science degree in electrical or computer engineering from North Carolina State University. Students must complete all coursework listed below to satisfy the Three-Plus-Two Program requirements. This UNCW phase of study can be completed in three years. Students meeting NCSU’s transfer admission requirements (see below) are accepted in the Electrical Engineering Program at NCSU. This program can be completed in two years and a summer session. UNCW will accept credits from NCSU to complete degree requirements at UNCW and NCSU will accept credits from UNCW to complete degree requirements at NCSU. Thus, the student receives a degree from UNCW and a degree from NCSU.

To complete the Three-Plus-Two Program, a student must complete the following courses at UNCW:

- All UNCW basic studies and graduation requirements.
- Computer Science General Core Requirements: CHM 101; MAT 161, 162; PHY 201, 202
- Computer Science for the B.S. Degree Core Requirements: CSC 100, 121, 133, 221, 242, 332, 340, 342, 360, 385, 434,

450, 455.

- Computer Science Oral Competency Requirement: CSC 495 or any other approved oral communication intensive course (see list on page 102).
- Computer Science Computer Competency Requirement: CSC 121.
- Computer Science Elective Credits: 9 hours.
- Additional courses prescribed by the Electrical Engineering Program at NCSU. Of these, the following are taught on-site at UNCW as distance education classes: ECE 109, 200, 209, 212 and E 115.

A student must finish the UNCW phase of study with an overall GPA of at least 3.00, a 2.00 GPA at NCSU, and have at least a 2.50 GPA in the last two calculus courses (MAT 162 and 261) to meet NCSU's transfer admission requirements. Students in this program will be advised jointly by the chair of the Department of Computer Science and the director of the Engineering Program at UNCW to assure completion of the correct requirements for both programs.

CREATIVE WRITING

<http://www.uncw.edu/writers>

Mr. P. Gerard, *chair*. Ms. L. Adams, Mr. Bass, Ms. Brenner, Mr. M. Cox, Dr. Edgerton, Dr. Furia, Mr. Gessner, Ms. Lee, Ms. Messer, Ms. Mörling, Mr. Siegel, Ms. E. Smith, Dr. White.

The Department of Creative Writing offers a major, the Bachelor of Fine Arts degree, and a minor in creative writing. Both programs provide an intensive apprenticeship in writing, informed by the close study of literature, to serious, aspiring writers, among a community of accomplished professional writers. The Bachelor of Fine Arts degree provides training in the art of writing within the context of studies in aesthetics, the literary tradition, the craft and profession of publishing, and broad liberal arts subject matter relevant to the student's needs and goals.

Faculty and students interact in a variety of ways with the community and region. Our Publishing Laboratory replicates the functions of a typical book publisher, allowing students hands-on experience with new technologies in the process of publishing and the techniques of getting published. Our Younger Writers' Summer Workshop is an annual four-day conference that brings together high school students from all over the state and region to study with the faculty and students of the Department of Creative Writing. Our primary educational goals include: 1) providing dedicated and talented students with a rigorous apprenticeship in the art and craft of creating literature; 2) developing students' critical faculties, their understanding of literary forms, and their aesthetic judgment; 3) providing students with a strong intellectual foundation in the historical literary tradition, grounding their practice of the art of writing in an understanding of how that art has been practiced by the greatest classic and contemporary authors; and 4) developing a thoughtful interdisciplinary foundation for understanding creative writing's relationship to other arts and scholarly areas. Additionally, the course of study engenders improved problem-solving skills, analytical reasoning, communication abilities, and both independent and group work ethics.

Students may declare a major in creative writing and enter the B.F.A. degree program only after submitting a successful portfolio for review by the faculty. Students must also have demonstrated their talent and dedication in one of the basic prerequisite courses in creative writing (CRW 207, 208, or 209) by receiving a grade of "B" or better.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.F.A. degree in creative writing a student must successfully complete CRW 207 or 208 or 209.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B. F. A. degree in creative writing a student must successfully complete CRW 496.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.F.A. in creative writing a student must successfully complete CRW 496.

Requirements for a Major in Creative Writing for the B. F. A. Degree: 54 hours. A minimum of 30 hours of courses in the Department of Creative Writing, including CRW 322, Editing for Publication, and 3 hours in forms of creative writing (CRW 302, 303, 304 or 306). At least 21 of these hours must be in writing workshop courses in at least two different genres of creative writing, including CRW 496 and one of the following sequences: CRW 207, 307, 407; CRW 208, 308, 408; or CRW 209, 309, 409. Students must also complete 15 hours of courses in literature or forms, which may include courses in the Department of Creative Writing (CRW 203, 302, 303, 304, 305, 306, 315), the Department of English (ENG 209, 210, 211, 212, 223, 224, 225, 226, 230, 232, 233, 290, 332, 333, 335, 336, 337, 338, 340, 341, 342, 350, 351, 352, 353, 354, 355, 356, 361, 362, 363, 364, 365, 370, 371, 372, 373, 374, 375, 380, 381, 383, 384, 390, 430, 431, 432, 490), or the Department of Foreign Languages (FRH 209, 321, 322, 420, 437, 438, 439; SPN 209, 210, 321, 322, 421, 422; GER 209, 431, 432, 434, 436; CLA 209, 210, 345). At least 9 hours of literature course work must be at the 300 or 400 level. At least 3 hours must be in literature before 1800; at

least 3 hours must be in literature after 1800. Students must complete 3 hours of course work beyond the basic studies level in fine arts or film studies. Students must also complete 6 hours in courses beyond the basic studies level in one of the following areas: natural sciences and mathematical sciences; social and behavioral sciences; or humanities (excluding any literature courses listed above).

Requirements for a Minor in Creative Writing: An 18-hour program, at least 9 hours of which must be at the 300 level or above: one of the sequences of writing workshop courses (CRW 207, 307, 407; CRW 208, 308, 408; or CRW 209, 309, 409); 3 hours in forms of creative writing (CRW 302, 303, 304, or 306); 3 hours in literature in the Department of English or Department of Foreign Languages (see list of courses above); 3 hours of electives in the Department of Creative Writing. An overall average of "C" (2.00) or better is required among courses taken to satisfy the requirements of the minor.

Requirements for a Certificate in Publishing: 12 hours. Majors only. Current practice, theory, and history of the publishing industry taught in conjunction with the UNCW Publishing Laboratory. Requirements include CRW 321, 322, and 323, with 3 additional elective hours from CRW 324 or 460.

CRIMINAL JUSTICE

(See Sociology and Criminology)

CRIMINOLOGY

(See Sociology and Criminology)

ENGLISH

<http://www.uncw.edu/english>

Dr. K. Newlin, *chair*. Dr. Ashe, Dr. Atkins, Dr. Atwill, Ms. Bissette, Dr. Boren, Dr. Bushman, Dr. Byington, Dr. Chakars, Dr. Cilano, Dr. Clifford, Dr. DePaolo, Dr. Ellerby, Dr. Gilbert, Dr. C. Gould, Ms. K. Gould, Dr. Hollingsworth, Dr. Huntley, Dr. Kamenish, Dr. Laudadio, Ms. J. MacLennan, Dr. T. MacLennan, Ms. Manning, Ms. Mathews, Dr. Montwieler, Dr. Noland, Dr. Peel, Dr. Reilly, Dr. S. Richardson, Dr. Rugoff, Dr. Schweninger, Dr. Seas, Dr. Sweeney, Dr. R. Veit, Dr. Walker, Dr. Waxman, Dr. Wentworth.

The English Department offers programs that foster intellectual development and personal exploration through the study of literature, writing, and the English language, and that emphasize analytical, expository, and technical skills to prepare students for careers in many fields, including education, law, business, public service, and publishing, and for graduate study.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in English a student must successfully complete ENG 204 or 205.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in English a student must successfully complete ENG 495 or 496.

Applied Learning Requirement: To satisfy the applied-learning requirement for the B.A. degree in English a student must successfully complete one of the following courses: ENG 204, 205, 311, 319, 491, 493, 495, 496, 498, 499; or EDN 402, 408, 409.

Requirements for a Major in English for the B.A. Degree: 42 hours. An overall average of "C" (2.00) or better is required among courses taken to satisfy the requirements of the major.

Literature Option. This option furthers students' understanding and appreciation of literature and develops their analytical, critical-thinking, and writing skills. Students take courses in a broad range of English studies, which may include literature, literary theory, writing, and the English language.

Requirements are ENG 205; ENG 332 or 333; 15 additional hours in literature, including 3 hours in literature before 1900 and 3 hours in non-Western or non-canonical literature; 3 hours in writing; 3 hours in the English language; ENG 386 or 387; 9 additional hours of ENG electives; and ENG 495. No more than 15 hours may be at the 200 level.

Professional Writing Option. This option prepares students to analyze and to respond to a variety of writing situations, to read texts critically, and to write in an effective, informed, and ethical manner in a range of organizational contexts. Many courses incorporate technologies for writing, research, and communication.

Requirements are ENG 204 and 205; 3 hours from ENG 309 or 310; 3 hours from 314 or 319; 3 hours from ENG 388 or 389; 6 hours from ENG 303, 307, 316, 318; 6 hours from ENG 302, 304, 312, 313; 6 additional hours in writing; 3 hours in literature; 3 hours in the English language; and ENG 496. No more than 12 hours may be at the 200 level.

Teacher Licensure Option. This option prepares students to teach English at the secondary level and to make contributions as active professionals.

Requirements are the Teacher Education Program requirements; ENG 205; 304; 320; 321; 332 or 333; 381; 382 or 383; 6 hours in American literature; 3 hours in non-Western or non-canonical literature; 3 additional hours in writing; an additional three-hour English elective; and ENG 495 or 496. In addition to the Shakespeare course, 3 of the above hours must be in literature before 1900. No more than 12 hours may be at the 200 level.

For information on admissions criteria for the Teacher Education Program and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

Requirements for a Minor in English: 18 hours. ENG 204 or 205, plus 15 hours of English classes at the 200 level or above, with at least 9 hours at the 300-400 level.

An overall average of "C" (2.00) or better is required among courses taken to satisfy the requirements of the minor.

Requirements for Certification in Professional Writing: 21 hours. ENG 204; 3 hours from ENG 309 or 310; 3 hours from ENG 314 or 319; 9 additional hours in writing; and ENG 498.

Courses in Other Departments: Up to 6 hours of appropriate courses from outside the department, including creative writing courses, may be counted toward the major or minor.

ENVIRONMENTAL STUDIES

<http://www.uncw.edu/evs>

Dr. J. Hall, *chair*. Dr. Aguilar-Amuchastegui, Dr. R. [Buerger](#), [Dr. Cutting](#), [Dr. J. Hill](#), Dr. Rotenberg, Dr. Snider, Dr. Taggart.

The environmental studies curriculum is designed to give students the depth of intellectual and analytical skills along with the scholarly background necessary to understand and solve environmental problems. The program is interdisciplinary, drawing upon the resources of many related fields to provide the rigorous analysis necessary to understand environmental problems and formulate decisions that are environmentally sound.

The EVS program offers both Bachelor of Arts and Bachelor of Science degree options. The Bachelor of Arts degree allows students a variety of specialization courses in both social and natural sciences. The Bachelor of Science degree is intended to give intensive training in either the biological or physical sciences.

A student in environmental studies must complete all requirements for the major [(General Core)+(B.A. or B.S. Core)+(B.A. or B.S. Electives)] with an overall "C" (2.00) GPA to graduate.

Due to the continual addition of new courses, the chair of the Department of Environmental Studies may consider the substitution of certain courses for those officially listed under the B.A. or B.S. options.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. or B.S. degree in environmental studies, a student must successfully complete CSC 105.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. or B.S. degree in environmental studies, a student must successfully complete EVS 495.

Applied Learning Requirement: To satisfy the applied learning competency for the B.A. in environmental studies or the B.S. degree in environmental sciences a student must successfully complete one of the following: honors in any science department (6 credits); directed individual study involving hand-on experience in any science department (minimum 1 credit); internship at an approved site that provides experience in the profession (minimum 1 credit); practicum at an approved site that provides

experience in the profession (minimum 1 credit); formal student teaching experience (e.g. EDN 411); completion of senior project (EVS 490, 1-6 credits).

General Core Requirements for all Environmental Studies Majors: 25 hours. BIO 201; CHM 101; CSC 105; EVS 195 and EVSL 195; GGY 130 or EVS 120 (GLY 120), and EVSL 120 (GLYL 120); MAT 111 or higher; STT 215 or GGY 222.

General core requirements for all students wishing to become environmental studies majors must be successfully completed before admittance into the major.

Requirements for a Major in Environmental Studies for the B.A. Degree: 67 or 68 hours total, comprised of the General Core plus option requirements. The Bachelor of Arts degree in environmental studies emphasizes a combination of social science, humanities and natural sciences. The B.A. in environmental studies prepares students for entry-level positions in many diverse fields, including urban and regional planning, environmental impact analysis, natural resource management, environmental education, conservation administration, energy policy, public interest lobbying, social science law, government and business.

Core Requirements: 24 or 25 Hours. ECN 221; EVS 325 (ECN 325) or 330 (ECN 330), EVS 360, 361, 362 (BLA 362), 364, 495; GGY 328 or EVS 281. A minimum of one hour of applied learning credit is required.

Elective Requirements: 18 hours selected from the following: EVS 205, 325 (ECN 325) or 330 (ECN 330), EVS 370 (PSY 370), 420 (GLY 420) (PHY 420), 430, 431, 462, 463, 470, 471, 472, 477, 478, 479, 480, 485, 488, 490, 491, 497, 498 (up to 6 hours total for any combination of EVS 491, 497, and 498), 499.

Requirements for a Major in Environmental Sciences for the B.S. Degree: 63-69 hours total, comprised of the General Core plus option requirements. A student must select one of two options in environmental science: physical or biological science. Each option emphasizes broad and comprehensive training in the fundamentals of mathematics, physics, chemistry, biology and earth science directly related to environmental questions. The B.S. in environmental science prepares students for positions in many diverse scientific areas such as environmental monitoring, pollution abatement, environmental technology development, environmental assessment, and consulting.

Biological Science Option: 38-42 hours (core and electives) in addition to the General Core:

Option Core: 23 or 27 hours: BIO 202, 366, BIOL 366; CHM 102, 377, CHML 377; PHY 105 or 101 and 102; EVS 495.

Option Electives: 15 hours, of which 11 hours must be at the 300 level or higher, from at least two areas: BIO 311, 312, 313, 318, 340, 345, BIOL 345, BIO 356, 357, BIOL 357, BIO 358, 362, 364, 368, 380, 425, 430, 434, 452, 455, 456, 458, 460, BIOL 460, BIO 462, 465, BIOL 465, BIO 466, 471, 474, 475, 478, 480, 482, 484, 485, 486, 487, 488; CHM 211, CHML 211, CHM 212, CHML 212, CHM 235, CHML 235, CHM 250, 312, CHML 312, CHM 321, CHML 321, CHM 365, 380, 415, 466, 467, CHM 475, 478, 485; ENG 204, 313, 314; EVS 205, 281, 325, (ECN 325), 330 (ECN 330), 362 (BLA 362), 364, 420, 430, 431, 460, 462, 472, 477, 478, 479, 480, 485, 490, 491, and/or 497, and/or EVS 498 (up to 6 hours total for any combination of EVS 491, 497, and 498), 499; GGY 235, 320, 328, 333, 336, 422, 424, 426; GLY 220, 226, 250, 350, 393; PHY 475; SHS 210; STT 305, 350. (EVS 281 will substitute for any EVS 300+ level elective.)

Physical Science Option: 44 hours in addition to General Core:

Option Core: 26 hours: CHM 102; EVS 495; GLY 220; MAT 161 and 162; PHY 101 and 102 or PHY 201 and 202.

Option Electives: 18 hours, of which 15 hours must be at the 300 level or higher, from at least two areas: BIO 487, 488; CHM 211, CHML 211, CHM 212, CHML 212, CHM 235, CHML 235, CHM 250, 312, CHML 312, CHM 321, CHML 321, CHM 365, 377, CHML 377, CHM 380, 415, 466, 467, 475, 478, 485; ENG 204, 313, 314; EVS 205, 281, 325 (ECN 325), 330 (ECN 330), 362 (BLA 362), 364, 420, 431, 460, 462, 472, 477, 478, 479, 480, 485, 490, 491, and/or 497, and/or EVS 498 (up to 6 hours total for any combination of EVS 491, 497, and 498), 499; GGY 235, 270, 320, 328, 333, 335, 336, 383, 384, 422, 424, 426, 433, 435, 437, 473; GLY 226, 250, 335, 350, 391, 392, 393, 394, 420, 426, 431, 441, 450, 458, 465, 472; PHY 311-312, 475; SHS 210; STT 305, 350. (EVS 281 will substitute for any EVS 300+ level elective.)

Requirements for a Minor in Environmental Studies: A minor in environmental studies requires a total of 24 credit hours with a minimum overall quality point average of "C" (2.00) in courses counted toward the minor.

A maximum of 12 credit hours counted toward a student's major in another department will be counted toward completion of core and/or elective minor requirements in environmental studies.

Students selecting the environmental studies minor are strongly encouraged to meet with an environmental studies coordinator to determine a specific course of study.

Core Requirements (12 hours): EVS 195 (3 hours) and EVSL 195 (1 hour); and 8 additional hours from BIO 366, BIOL 366; CHM 377, CHML 377; EVS 325 (ECN 325), 330 (ECN 330), 360, 361, 362, 364.

Elective Requirements (12 hours): Students may select any EVS numbered course not used in the core requirements. A minimum of three disciplines must be chosen as electives. A minimum of 9 hours must be at the 300-400 level.

THE THREE-PLUS-TWO PROGRAM IN ENVIRONMENTAL SCIENCE AND ENVIRONMENTAL ENGINEERING

Dr. K. Diehl, Dr. J. Hall, *advisors*.

The Three-Plus-Two Environmental Science and Environmental Engineering Program is a cooperative agreement between the University of North Carolina Wilmington Environmental Studies Program and the North Carolina State University Environmental Engineering Program. The program gives students the opportunity to earn a Bachelor of Science degree in environmental science from the University of North Carolina Wilmington and a Bachelor of Science degree in environmental engineering from North Carolina State University. Students will complete courses listed below to meet the requirements at UNCW. This course of study can be completed in three years. If the student meets the transfer admission requirement for NCSU listed below, the student is accepted into the Environmental Engineering Program. This program can be completed in two years. UNCW has agreed to accept credits from NCSU to complete the degree requirement at UNCW and NCSU has agreed to accept credits from UNCW to complete degree requirements at NCSU. Thus, the student receives a degree from UNCW and a degree from NCSU.

To complete the Three-Plus-Two Program, a student must complete the following courses at UNCW:

- All current basic studies requirements.
- Environmental Science Computer Competency Requirement: CSC 105.
- Environmental Science Oral Competency Requirement: EVS 495.
- Environmental Studies Applied Learning Requirement: minimum 1 hour.
- Environmental Science General Core Requirements: BIO 201; CHM 101; CSC 105; EVS 195 and EVSL 195; MAT 111; STT 215; GGY 130 or EVS 120 (GLY 120) and EVSL 120 (GLYL 120).
- Environmental Science for the B.S. Degree Physical Science Core: CHM 102; GLY 220; MAT 161, 162; PHY 201, 202.
- Environmental Science Physical Science Elective Curriculum: must include CHM 211, CHML 211; EVS 325 (ECN 325) and 11 hours of additional physical science electives at the 300-400 level.
- In addition to these courses, students must also complete MAT 261.

A student must complete this course of study with an overall GPA of at least 2.90 and have at least a 2.50 GPA in the last two calculus courses (MAT 162 and 261) to meet NCSU's transfer admission requirements. Students in this program will be advised jointly by the chair of the Department of Environmental Studies and the director of the Engineering Program at UNCW to assure completion of the correct requirements for both programs.

EUROPEAN STUDIES (Interdepartmental)

Dr. P. Kamenish, *coordinator*.

The College of Arts and Sciences offers an interdisciplinary minor in European studies which focuses on Europe since 1650. The minor provides students with a broad foundation for understanding modern Europe through the study of geography, history, language, and literature. Students complement core requirements with studies in the fine arts, literature, history and civilization, and political science. Students should contact the coordinator in the Department of English for additional information.

Requirements for a Minor in European Studies: 24 hours. Core: (15 hours): GGY 385; ENG 370 or 371; HST 102; HST 394, 396, 398 or 399; and a course in FRH, GER, PRT, or SPN (chosen from offerings numbered 201 or higher, excluding those taught in English and those designated Spanish American or Latin American). Electives (9 hours): Nine additional credits from ARH 202, 304, 305, 306, 307; ENG 370, 371; FRH 209, 311, 321, 322, 385, 437, 438, 439; FST 386, 387, 388; GER 209, 211, 311, 385, 431, 432, 434, 436, 485; HST 319, 320, 321, 322, 323, 325, 326, 379, 380, 391, 392, 394, 396, 398, 399, 412, 414, 416, 418; MUS 351, 352, 361, 362, 363; PAR 202, 213, 238, 240, 401; PLS 314, 335, 336, 427; SPN 209, 211, 311, 321, 385, 411, 421; THR 322 and approved Study Abroad courses taken in Europe.

A "C" (2.00) or better average is required for all courses counted toward the minor in European studies. Courses being counted toward a major cannot be counted toward completion of minor requirements.

FILM STUDIES

<http://www.uncw.edu/filmstudies>

Dr. L. Buttino, *chair*. Dr. Berliner, Mr. Hackler, Mr. Hulse, Dr. Johnson, Mr. Monahan, Mr. Pack, Dr. Palmer, Dr. G. Richardson, Mr. A. Silva, Ms. S. Silva.

The film studies major prepares students to participate in a world increasingly shaped by moving pictures. The major is founded on the principle that the study of cinema and the artistic production of motion pictures complement one another, and all film studies majors perform substantial work in both areas. Through courses that offer a foundation for understanding cinema—and its relation to culture, history, technology and aesthetics—the film studies major teaches students to create and analyze moving images, to produce research, and to make art.

Before they are admitted to the major, students must demonstrate their skills and dedication to the study of film by completing the required 9 hours in core courses in film studies with a minimum grade in each course of "B-" (2.67) and an overall grade point average of "B" (3.00) or better in the three courses. After successfully completing the three core courses, students must also submit an application for admission, which will be evaluated by Film Studies faculty. Successful applicants will then be admitted to the major. Once they have completed the 24 credit hours required by University College to declare a major, students may declare a pre-film studies major (PFST) in order to gain access to the core courses in film studies.

Students seeking an internship course in film studies must have a minimum of 12 hours in previous film studies courses, junior or senior standing, and an overall 2.50 grade-point average. They must also submit an application in order to receive permission from the chair of the Department of Film Studies to enroll in the internship course.

A student in film studies must complete all requirements for the major with an overall 2.00 GPA or better.

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. in film studies, a student must successfully complete FST 201.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. in film studies, a student must successfully complete FST 495 or 496.

Applied Learning Requirement: To satisfy the applied learning requirement for the B.A. in film studies, a student must successfully complete one of the following courses: FST 301, 302, 493, 495, or 498.

Writing Competency Requirement: To satisfy the writing competency requirement for the B.A. in film studies, a student must successfully complete one of the following courses: FST 317 (ENG 317), FST 367, 440, 445, 496, or another course designated by the department as "writing intensive."

Requirements for a Major in Film Studies for the B.A. Degree: 45 hours. The major consists of 45 hours, at least 24 of which must be at the 300 or 400 level, distributed as follows. No course may satisfy more than one requirement or elective within the major.

Core: 9 hours selected from FST 200, 201, and 205 (FLL 205).

Film History: 6 hours selected from FST 370, 371, 372, 376, 377, 378, or 379.

Foreign-Language Cinema: 3 hours selected from FST 378, 383, 384, 385, FST 386 (GER 385), FST 387 (FRH 385), FST 388 (SPN 385), FST 389, FST 480 (FLL 480) (FRH 485) (GER 485) (SPN 485).

Comprehensive Production Practicum: 3 hours selected from FST 301 or 302.

Film Production: 6 hours selected from FST 220 (ART 220) (CSC 220), FST 301, 302, FST 318 (CRW 318), FST 320 (ART 320) (CSC 320), FST 330, 331, 332, 333, 334, FST 335 (THR 335), FST 391, 392, 393, 394, 396, 397, 398, 399, 418, 419, FST 430 (CSC 430), FST 493, 495, 497, 498; THR 230.

Critical Studies: 3 hours selected from FST 367, 368, 369, 370, 371, 372, 376, 377, 378, 379, 383, 384, 385, FST 386 (GER 385), FST 387 (FRH 385), FST 388 (SPN 385), FST 389, 440, 445, FST 480 (FLL 480) (FRH 485) (GER 485) (SPN 485), or FST 496.

Seminar: 3 hours selected from FST 495 or 496.

Electives: 12 hours selected from courses with FST prefix at the 200, 300, or 400 level.

FOREIGN LANGUAGES AND LITERATURES

<http://www.uncw.edu/fl>

Dr. R. Burt, *chair*. Dr. Avalos, Dr. Balena, Dr. Barthe, Ms. Benitez-Galbraith, Dr. Boersma; Dr. Boomershine, Dr. Cami-Vela, Dr. B. Chandler, Dr. Das, Dr. Deagon, Dr. Dennis, Dr. DiPuccio, Dr. Felix, Mr. Gagliano, Dr. E. Harris, Dr. Hernández, Ms. Irvin, Ms. Jara, Dr. Juall, Ms. Kano, Dr. Lapaire, Dr. D. Miller, Dr. J. Mount, Dr. T. Mount, Ms. Rider, Mr. Rosenbloom, Dr. Scatton-Tessier, Dr. Stevens, Dr. Thomas, Dr. Trokhimenko, Dr. Watts.

The Department of Foreign Languages and Literatures offers classes in American sign language, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian and Spanish language, as well as in literature, film studies, civilization, linguistics and classics. Majors in French, German studies, and Spanish prepare students for graduate studies, teaching, and other careers requiring a strong liberal arts background combined with knowledge of foreign languages and cultures. The major in German studies is available in conjunction with the UNC German Studies Consortium (see page 104). A substantial number of courses for the major are offered through the consortium as GER 495. Special Topics. Also available are minors in French, German, and Spanish, and, in conjunction with other departments, classical studies, film studies, European studies, and Latin American studies, which complement students' majors, deepen their cultural and linguistic appreciation, and enhance employment opportunities.

Students who have taken French, German, Latin, or Spanish in high school must take a placement exam in that language. Students should take the exam online at the department Web site listed above. Placement in American sign language, Chinese, Italian, Japanese, Portuguese and Russian is done through consultation with the Department of Foreign Languages and Literatures. Students who have studied a language other than those offered at UNCW may enroll in the beginning level of any class without taking a placement exam.

Supplementary foreign language credit: Students who complete, with a grade of "C" (2.00) or better, a French, German, Japanese, Latin, Portuguese or Spanish course numbered 201 or higher (excluding 209, 210, 211, and 212) and who have received no AP credit, no transfer credit, and no prior credit at UNCW in that language shall be granted supplemental credit as follows:

- For completion of a 200-level course the student will receive 3 credit hours for the prior course in the sequence.
- For completion of a 300-level course in French, German or Latin, the student will receive 6 credit hours for 201 and 202.
- For completion of SPN 305, the student will receive 6 credit hours for SPN 202 and SPN 203.

This credit may be used to fulfill basic studies requirements.

If a student has successfully completed, or is registered in a 200-level course (excluding literature and culture classes taught in English), she/he may not take for credit, either concurrently or subsequently, a 100-level course in the same language. If a student has successfully completed, or is registered in a 300- or 400-level course, she/he may not take for credit, either concurrently or subsequently, a 100-level class or a class numbered 201 or 202 in the same language. Exceptions to this rule may be granted under special circumstances and with special permission from the instructor of the course(s) and the department chair.

Applied Learning Requirement: To satisfy the applied-learning requirement for foreign language, a student must complete 6 credit hours of study abroad (at the intermediate level or above) or 3 credit hours of internship, directed individual study, practicum, honors, or service learning.

FRENCH

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in French a student must successfully complete FRH 301 or 306 or 311.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in French a student must successfully complete FRH 301.

Requirements for a Major in French for the B.A. Degree: 36 hours, including 201-202 or the equivalent; 301 and 308; 2 or more of the following: 302, 303, 306; 1 or more of the following: 304, 311, 318; 1 or both of the following: 321, 322; and 2 courses (total 6 credit hours) at the 400 level. Only 3 of the hours at the 400 level may be obtained by means of a FRH 491 or 498.

A grade of "C-" or better is required in each course counted toward the major and a "C" (2.00) average or better for all courses counted toward the major. Also required is a passing score on the departmental French oral proficiency exam. Recommended: HST 101 and 102.

Requirements for a Major in French for the B.A. Degree with Teacher Licensure: 36 hours, including 201-202 or the equivalent and 30 hours at the 300-400 level and Teacher Licensure Program Requirements. Students seeking licensure in French (K-12) must complete FRH 301, 302, 303, 306, 308, 311, 321, 322 and at least 6 credit hours at the 400 level, only 3 of which may be obtained by means of FRH 491 or 498.

A grade of "C-" or better is required in each course counted toward the major and a "C" (2.00) average or better for all courses counted toward the major. Recommended: HST 101 and 102. Students must also satisfy the professional education requirements listed under the Watson School of Education.

For information on the Teacher Education Program admissions criteria and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

Requirements for a Minor in French: Completion of a minimum of 18 semester hours at the 200 level and above, excluding FRH 209. Of these, at least 9 hours must be at the 300 level or higher. A grade of "C-" or better is required in each course counted toward the minor and a "C" (2.00) average or better for all courses counted towards the minor.

GERMAN

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in German studies a student must successfully complete GER 307 or 495.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in German studies a student must successfully complete GER 307 or 495.

Requirements for a Major in German Studies for the B.A. Degree: 36 hours, including GER 201-202, 301 or the equivalent. Thirty hours must be completed at the 300-400 level. GER 307 is required. At least 6 hours must be at the 400 level and may include GER 495 courses taught through the UNC German Studies Consortium (See page 104 of this catalogue). Only 3 of the hours at the 400 level may be obtained by means of a GER 491 or 498.

A grade of "C-" or better is required in each course counted toward the major and a "C" (2.00) average or better for all courses counted toward the major. Also required is a passing score on the departmental German studies oral proficiency exam.

Requirements for a Minor in German: 18 hours at the 200 level and above, excluding GER 209. Of these, at least 9 hours must be at the 300 level or higher and may include GER 495 courses taught through the UNC German Studies Consortium (See page 106 of this catalogue). HST 323 may be counted toward the minor, but is not required. A grade of "C-" or better is required in each course counted toward the minor and a "C" (2.00) average or better for all courses counted towards the minor.

SPANISH

Computer Competency Requirement: To satisfy the computer competency requirement for the B.A. degree in Spanish a student must successfully complete SPN 305 or 311 or 312.

Oral Communication Competency Requirement: To satisfy the oral communication competency requirement for the B.A. degree in Spanish a student must successfully complete SPN 305 or 405.

Requirements for a Major in Spanish for the B.A. Degree: 36 hours, including 202 and 203, or the equivalent, and 30 hours at the 300-400 level (of which at least 6 must be at the 400 level). Only 3 hours at the 400 level may be obtained by means of SPN 491 or 498. Recommended: HST 101 and 102.

A grade of "C-" or better is required in each course counted toward the major and a "C" (2.00) average or better for all courses counted toward the major.

Requirements for a Major in Spanish for the B.A. Degree with Teacher Licensure: 36 hours, including 202 and 203 or the equivalent and thirty hours at the 300-400 level and Teacher Licensure Program Requirements. Students seeking licensure in Spanish (K-12) must complete the requirements for the Spanish major (specifically required are SPN 305, 306, 307, 308, 311, 312, 321, 322 and at least 6 hours at the 400 level, only 3 of which may be obtained by means of a SPN 491 or 498).

A grade of "C-" or better is required in each course counted toward the major and a "C" (2.00) average or better for all courses counted toward the major. Students must also satisfy the professional education requirements listed under the Watson School of Education.

For information on the Teacher Education Program admissions criteria and the courses required for licensure in North Carolina, see the Watson School of Education section of this catalogue. Students planning to pursue licensure should apply to the Watson School of Education as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time.

Requirements for a Minor in Spanish: Completion of a minimum of 21 hours at the 200 level and above, excluding SPN 209, 210, 211, and 212. Of these, at least 9 hours must be at the 300 level or higher. A grade of "C-" or better is required in each course counted toward the minor and a "C" (2.00) average or better for all courses counted towards the minor.

ADDITIONAL LANGUAGES

The Department of Foreign Languages and Literatures offers introductory and intermediate sequences in American sign language, Chinese, Italian, Japanese, Portuguese and Russian when resources permit. The Department of Foreign Languages and Literatures offers courses in Latin (introductory and intermediate sequence) and classical courses in translation.

FORENSIC SCIENCE (Interdepartmental)

Dr. A. M. Albert, *coordinator*.

The College of Arts and Sciences offers an interdisciplinary minor in forensic science. The minor affords students the opportunity to gain foundation-level exposure to the various sciences from which forensic applications are derived. Students will acquire broad-based knowledge and skills in a combination of areas such as biology, chemistry, anthropology, criminology, sociology, environmental science and law. The minor is designed to prepare students for future graduate education and/or on the job training in specialized fields within forensic science; examples include but are not limited to search and recovery of human remains, human identification, crime scene investigation, evidence collection and/or laboratory analyses.

Requirements for a Minor in Forensic Science: A minor in forensic science requires 21 hours, distributed as one 3-hour core course, and 18 hours of electives including at least one course in each of two groups (Group 1: (A) Biology or (B) Chemistry, and Group 2: Social-Behavioral Sciences).

Core: ANT 211

Group 1: Option (A) Biology, or Option (B) Chemistry
Option (A) Biology: BIO 240, 241, 335, BIOL 335, BIO 488
Option (B) Chemistry: CHM 380, 417

Group 2: Social and Behavioral Sciences
ANT 207-ANTL 207, ANT 326-ANTL 326, ANT 426; CRM 255 (SOC 255), 320, 380, 381, 385, CRM 495.
Criminalistics; EVS 362 (BLA 362)

Some 400-level courses focusing on forensic science, such as directed independent study, seminars, or honors work, may substitute for courses in Group 2 if approved by the coordinator. Students must have at least a "C" (2.00) average in all courses counted for the minor. Many courses listed above have prerequisites and or co-requisites, which do not count for the minor but may satisfy basic study requirements or other major requirements.

FRENCH (See Foreign Languages and Literatures)

GEOGRAPHY (See Geography and Geology)

