Regular Members Present:
Lori Flint (Chair)
Jean-Luc Scemama (Vice Chair)
Mark Richardson (Secretary)
Ken Anselmi
David Batts
Michael Dingfelder
Gail Ratcliff
Karen Vail-Smith

Regular Members Excused:
None

Ex-Officio Members Present:
Josie Bowman
Erin Parrish
Michelle Wallen

Ex-Officio Members Excused:
Ashley Carr
Rita Reaves

IPAR Office of Academic Program Planning and Development (OAPPD):
Kimberly Nicholson and Karen Traynor

Office of the Registrar:
Diane Coltraine

Guests:
Fine Arts and Communication: Erick Green, Kate LaMere, and Mary Tucker-McLaughlin
College of Health and Human Performance: Matthew Fish and Susan McGhee
College of Human Ecology: Susannah Berry and Ginger Woodard
Thomas Harriot College of Arts and Sciences: Andrea Carter, Gail Ratcliff, Heather Ries, Jerry Weitz, and Mulatu Wubneh.

Actions of Committee:
*Items identified with yellow highlighting are programmatic in nature and will require review by the EPPC following UCC approval.*

I. Call to Order

1. The 02-26-15 UCC minutes were approved electronically and forwarded to the Faculty Senate for placement on their 04-14-15 agenda.
2. The 03-26-15 UCC minutes will be distributed for an electronic vote once all of the revision packages have been received. The Faculty Senate has approved review of this set of minutes at their 04-21-15 meeting.

II. College of Engineering and Technology, Departments of Computer Science and Technology Systems

1. Revision of Existing Degrees: BS in Computer Science, BS in Design, BS in Industrial Distribution and Logistics, BS in Industrial Engineering Technology, BS in Information and Computer Technology

   o Discussion: Ms. Nicholson explained that the attendance requirement was waived by Chair Flint because the only changes were to the marked catalog copy and involved making substitutions to take the place of COMM 2420 Business and Professional Communications because the course is being discontinued. Dr. Anselmi stated that the date the faculty approved this curriculum change was missing from the memo. Dr. Batts stated that his degree program area, BSIT, was missing from the marked catalog copy and asked if it could be added. The committee voted to approve the amendment to make this addition, and Ms. Nicholson stated that she would contact Dr. Pagliari to have the change added to the catalog copy.

   o Action Taken: A motion to approve as amended was made by Dr. Flint, and seconded by Dr. Richardson. The motion was approved.

III. Thomas Harriot College of Arts and Sciences, Department of Chemistry

1. Banking of Existing Courses: CHEM 2650, 2651

   Discussion: Dr. Andrea Carter introduced the banking of CHEM 2650 and CHEM 2651 to the committee. She explained that there are no plans for the course to be offered again, and students have already been directed to take a different course—CHEM 2750. The faculty has planned to offer more sections of CHEM 2750, as they are aware that this change affects several units. Professor Vail-Smith stated that the memo of request was well prepared, but many units will be affected by this change and will need to make changes to their curriculum. She said she was pleased to see in the memo that the faculty had notified the affected units of the change and plan to delay banking the course until Fall 2016. However, Ms. Coltraine noted that the CHEM 2650 and CHEM 2651 are not being offered during the 2015-16 academic year. They have been handling substitutions, but the question was raised whether UCC will have to handle all of the affected units and approval of substitute courses. Dr. Flint stated that the committee would need to reach out to the seriously affected units and see how the matter can be corrected. Diane Coltraine stated she would be reaching out to each unit that is directly impacted by the banking of CHEM 2650, 2651 over the summer when she is working on the 2015-2016 catalog.

   o Action Taken: A motion to approve as amended was made by Professor Vail-Smith, and seconded by Dr. Scemama. The motion was approved.
IV. Thomas Harriot College of Arts and Sciences, Department of Geography, Planning, and Environment

1. Proposal of New Course: PLAN 2030

   Discussion: Dr. Jerry Weitz and Dr. Mulatu Wubneh (Dr. Misun Hur could not attend) introduced the new course to the committee. Dr. Anselmi stated that the dates of approval by the faculty differ between the memo and the course proposal. Dr. Weitz stated that he would correct this error.

   o Action Taken: A motion to approve as amended was made by Dr. Ratcliff, and seconded by Dr. Scemama. The motion was approved.

2. Revision of Existing Degree: BS in Urban and Regional Planning

   o Discussion: Ms. Coltraine stated she has reviewed the marked catalog copy and it looked fine. Dr. Weitz was asked if they were concerned about the banking of COMM 2420, as it is an option in their foundations section. He replied they were fine with leaving just the COMM 2420 as the only option once COMM 2420 is banked.

   o Action Taken: Action Taken: A motion to approve as amended was made by Dr. Ratcliff, and seconded by Dr. Scemama. The motion was approved.

V. College of Fine Arts and Communication, School of Art and Design

1. Revision of Existing Degree: BFA in Art

   Discussion: Dr. Green introduced the changes in the curriculum that includes revisions to the ART BFA concentration in Cinematic Arts and Media Production (with no change in overall credit hour requirements) and a change in the name of the concentration to “Film/Video Production.” Professor Vail-Smith stated that the memo was clear, but the catalog copy lists the concentration with an “and” between the words Film and Video while the memo lists the concentration with a “/” between the two words. She stated that the name needs to be uniform, and Dr. Green agreed to change memo so the concentration is listed as “Film and Video Production.”

   o Action Taken: The motion to approve as amended was made by Dr. Wallen and seconded by Professor Vail-Smith. The motion was approved.

2. Title Revision of Existing Concentration with the BFA in Art: Cinematic Arts and Media Production (to Film and Video Production)

   o Discussion: Ms. Coltraine said that the memo was well organized, but that she will make the change to replace the slash with “and” in the name of the concentration so that it is uniform in the catalog.

   o Action Taken: The motion to approve as amended was made by Dr. Wallen and seconded by Professor Vail-Smith. The motion was approved.
VI. Thomas Harriot College of Arts and Sciences, Department of Mathematics

1. Proposal of New Courses: MATH 4057, 4065

   o Discussion: Dr. Heather Ries introduced the two new courses: MATH 4057 (Matrix Algebra) is an undergraduate elective established from a similar course at the graduate level, and MATH 4065 (Applied Modern Algebra) offers more opportunities and specific focus than the required MATH 3263 (Modern Algebra). Dr. Batts stated that the date listed on the course proposals should be the date that department voted and approved, and it should agree with the same date listed in the memo. Dr. Ries agreed to make the changes on the course proposals. Ms. Nicholson stated, on behalf of Dr. Reaves, that the budgetary memo was missing the word “offered” between “already” and “every year.” Dr. Ries provided a corrected signature form at the meeting.

   o Regarding MATH 4057: Dr. Reaves wanted to know (as relayed by Ms. Nicholson) what the assessment revealed that led to the development of the MATH 4057 course. Dr. Ratcliff stated that it seemed students were not reaching the levels that were needed (due to time constraints) in MATH 3263, so the faculty developed the additional course. She suggested that the course justification be revised to clarify how the assessment demonstrated that MATH 3256 was insufficient. Dr. Dingfelder asked about the low enrollment issue, and Dr. Ries responded that MATH 4057 would always be taught along with the graduate-level course so there will be enough students and it will always be offered.

   o Regarding MATH 4065: Dr. Batts stated that the faculty needs to provide more justification for the course in the memo. Dr. Ries stated that in MATH 3263 the faculty determined that students were only getting through half of the required material, so they decided to develop a second course that would be called “Applied Modern Algebra” that would go further in having students apply the material they have learned. Dr. Ratcliff requested that the faculty add the word “Abstract” before “Rings and fields” in the course description, and Dr. Ries agreed to this change. Dr. Batts asked why the course description uses the phrase “may include” rather than to be more specific, and Dr. Ries stated that the faculty would rather leave the exact items to be addressed each time up to the instructor. Dr. Batts stated that within the course justification there is an error in that MATH 4064 should be listed as MATH 4264. Dr. Ries stated that she would make this correction. Dr. Ries was asked to expand the justification for MATH 4065 in the memorandum of request to include reference to the study conducted by Dr. Ratcliff.

   o Action Taken: A motion to approve as amended was made by Dr. Batts and seconded by Dr. Dingfelder. The motion was approved.

2. Revision of Existing Degree: BS in Mathematics

   o Discussion: Ms. Coltraine stated that the marked catalog copy looked fine and the committee agreed.

   o Action Taken: A motion to approve was made by Dr. Batts and seconded by Dr. Dingfelder. The motion was approved.

VII. College of Health and Human Performance, Department of Recreation and Leisure Studies
1. Proposal of New Courses: RCTX 2200, 4200

- Discussion: Dr. Matthew Fish and Dr. Susan McGhee are presenting the package to the committee. The faculty is requesting the deletion of RCTX 4001 and the approval of RCTX 2200 as a new course. Dr. Scemama stated that the budget memo shows approval of RCTX 2200 as a renumbering of RCTX 4001, not a new course as the course proposal and memo state. He said that if RCTX 2200 is to be a new course, then it must be approved that way and the budget memo should state this correctly. Professor Vail-Smith stated that the issue with RCTX 2200 is that it was presented to the faculty as a renumbering, but much of the course has changed (the level from 4000 to 2000, the fact the new course is not part of the major, etc.) that it really should be approved as a new course. Dr. Ratcliff agreed, stating that most courses that have such a substantial change are usually recommended by the UCC to be new courses rather than renumbered courses. Ms. Coltraine stated that she looked at the course as a renumbering and originally told the faculty that there would be a lot of complications due to the cross-listing with HLTH 4001 and advised Dr. Fish and Dr. McGhee that it really would be best to present it as a new course. The UCC determined a new, rather than renumbered, course would be required. This is because there is substantial change in the course content and the manner in which it is being delivered. The course proposal and memo presented to the committee shows RCTX 2200 as a new course, but it was approved by the department and college faculty as a renumbering. Dr. Flint stated that it is best that RCTX 2200 be approved as a new course, but first it must have the department and college approval as a new course.

- Regarding RCTX 4200: Dr. Scemama stated that the faculty needs to identify if the textbooks are required or optional (Item 23) within the course proposal, and the course objectives need to use measureable active verbs. Additionally, Dr. Scemama noted that the total grade for the assignments is listed incorrectly.

- Action Taken: The committee agreed that the RCTX 2200 course proposal, memo, and revised budget memo listing RCTX 2200 as a new course must get approval by the college before it can be included in the package and be approved by the committee. If the RCLS and HHP curriculum committees are unable to support this by Tuesday 4/14/15, then the faculty must extract the new RCTX 2200 course from the package (to be submitted at a future date) and make revisions to the memo and marked catalog copy so that the rest of the package may move forward. Dr. Flint stated that there must be an e-mail trail showing approval from all the appropriate parties and the date of the vote. A motion to approve as amended was made by Dr. Scemama and seconded by Dr. Parrish. The motion was approved.

2. Deletion of Existing Course: RCTX 4001

- Discussion: Ms. Coltraine stated that RCTX 4001 can be removed from the department’s curriculum, but it will not be removed from the catalog listing of courses.

- Action Taken: A motion to approve as amended was made by Dr. Scemama and seconded by Dr. Parrish. The motion was approved.

3. Revision of Existing Degree: BS in Recreational Therapy
Discussion: If RCTX 2200 can be approved as a new course, then the marked catalog copy is satisfactory; however, if RCTX 2200 cannot be approved by the Tuesday 4/14/15 deadline, then the marked catalog copy will need to be revised to correct its inclusion.

Action Taken: A motion to approve as amended was made by Dr. Scemama and seconded by Dr. Parrish. The motion was approved.

Revision of Existing Minors: Recreational Therapy Minor, Recreation and Park Management Minor

Discussion: If RCTX 2200 can be approved as a new course, then the marked catalog copy is satisfactory; however, if RCTX 2200 cannot be approved by the Tuesday 4/14/15 deadline, then the marked catalog copy will need to be revised to correct its inclusion.

Action Taken: A motion to approve as amended was made by Dr. Scemama and seconded by Dr. Parrish. The motion was approved.

VIII. College of Human Ecology, Department of Child Development and Family Relations

1. Proposal of New Courses: CDFR 3560, 4380

Discussion: Dr. Susannah Berry and Dr. Ginger Woodard introduced the proposed curriculum changes to the committee. Dr. Scemama stated that the memo of request was nicely organized and clear.

Regarding CDFR 3560: Dr. Scemama stated that the expected future delivery (Item 6) on the course proposal needed to be marked. Ms. Coltraine asked Dr. Berry to include CDFR in the prerequisite, replace the ampersand in the course description with “and” and to remove “will be developed.” Dr. Scemama says that the first sentence of the course justification (Item 7) needs to be revised because it is a new course and not a course revision.

Regarding CDFR 4380: Ms. Coltraine stated that CDFR 4380 would be the first undergrad grant-writing course. She recommended adding CDFR to the prerequisite and requested “will be developed” be removed. Ms. Coltraine stated that the course title mentions Leadership Development, so it would be a good idea to notify the faculty in charge of the Leadership minor about this new course. Dr. Scemama says that the first sentence of the course justification (Item 7) needs to be revised because it is a new course and not a course revision. He stated that the expected future delivery (Item 6) on the course proposal needed to be marked. Dr. Reaves (as relayed by Ms. Nicholson) asked what is meant by “streamline student learning” in the course justification, and suggested that the faculty clarify in making clear distinctions between these courses. Dr. Scemama stated that the weighting of assignments for the course was not clear, and the recommended text (Item 23a) has a misspelled word (Manuel) that needs to be corrected.

Action Taken: A motion to approve as amended was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.
2. Renumbering of Courses at the Same Level: CDFR 4001 (to 4991), CDFR 4002 (to 4992)

   o Discussion: Dr. Scemama asked if the course just involved a renumbering. Dr. Berry stated that the course descriptions were cleaned up a bit, but there was no change made to the course content. Dr. Parrish stated that for both courses the expected future delivery type (Item 6) needs to be checked. Dr. Scemama asked regarding the number of course contact hours now listed as 9 per week. Dr. Berry stated that she would change this to show 352 hours per term, but the listing of 9 credit hours in the course description was correct. Dr. Scemama stated that the faculty needed to specify for both courses if the textbook is required. Dr. Berry said that the textbook listed for each is required and she would revise the form to make this clear. Dr. Reaves asked (as relayed by Ms. Nicholson) if the text for each course covers all the material for the objectives. Dr. Berry responded that a lot of the objectives are fulfilled in the internship setting—the text serves to support these in part. Dr. Flint recommended that she add “additional material will be available through the course management system.” Professor Vail-Smith stated that the course objectives for both courses need to be revised to include measureable active verbs as follows:
   ▪ Bullet 1—delete “Demonstrate competence in the” and replace with “Apply”
   ▪ Bullet 2—delete “Demonstrate the ability to” and begin with “Deliver”
   ▪ Bullet 3—okay
   ▪ Bullet 4—delete “Demonstrate” and replace with “Use”
   ▪ Bullet 5—okay
   ▪ Bullet 6—remove “s” from “Demonstrates”

   Prof. Vail-Smith recommended changing the Assignments for both courses to remove the date and just list the topics. Ms. Coltraine asked if the prerequisites for CDFR 4992 are the same as for CDFR 4991, and Dr. Berry responded that they were the same.

   o Action Taken: A motion to approve as amended was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

3. Deletion of Existing Course: CDFR 3290

   o Discussion: The committee approved the deletion.

   o Action Taken: A motion to approve was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

4. Revision of Departmental Text: Department of Child Development and Family Relations

   o Discussion: The committee found the revision satisfactory.

   o Action Taken: A motion to approve was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

5. Removal of 2 + 2 Degree Completion Format from the BS in Family and Community Services

   o Discussion: The committee found the revision satisfactory.
o Action Taken: A motion to approve was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

Revision of Existing Degree: BS in Family and Community Services

o Discussion: Ms. Coltraine stated that any changes to the course descriptions need to be made in the marked catalog copy. She pointed out that “options” are referenced in the Child Development and Family Relations departmental text. Kimberly Nicholson shared that other units have used the term “pathways” rather than “options” in descriptive text. Dr. Berry stated that she would rewrite this in a clearer format.

o Action Taken: A motion to approve as amended was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

7. Proposal of New Concentrations within the BS in Family and Community Services: Family Science, Child Development

o Discussion: Dr. Scemama stated that he had checked the marked catalog copy for corrections of “concentration” and verified that the course credits listed added up correctly.

o Action Taken: A motion to approve was made by Dr. Anselmi and seconded by Dr. Wallen. The motion was approved.

IX. College of Fine Arts and Communication, School of Communication – tabled

1. Proposal of New Courses: COMM 1003, 2010, 2500, 3300
2. Renumbering and Revision of Existing Courses: COMM 2230 (to 3430), COMM 3220 (to 2225)
3. Revision of Existing Course: COMM 4321
4. Title and Prerequisite Revision of Existing Course: COMM 4293
5. Prerequisite Revision of Existing Courses: COMM 2030, 2104, 2340, 3061, 3062, 3063, 3064, 3120, 3142, 3151, 3152, 3160, 3172, 3190, 3310, 3320, 3330, 3340, 3362, 3380, 3400, 3500, 3520, 4032, 4040, 4042, 4045, 4060, 4075, 4080, 4081, 4082, 4083, 4091, 4092, 4130, 4135, 4170, 4180, 4185, 4196, 4400, 4905
6. Banking of Existing Courses: COMM 1002, 2103, 2420, 3311, 4050, 4062
7. Revision of Existing School Text: Deletion of Communication Honors Program
8. Revision of Existing Degree: BS in Communication
9. Removal of Previously Deleted Concentration from the BS in Communication: Media Production
10. Revision of Existing Minor: Communication, Communication Studies

o Discussion: Dr. Bowman stated that all the changes were addressed in the memo. Dr. Tucker-McLaughlin came to introduce the changes to the courses and degree issues. Dr. Parrish says there were many errors in the course proposals—no CIP codes, incomplete checking of boxes, and incomplete justifications for courses. Dr. Flint says this could be seen on April 16 if the changes could be made in time, however due to the volume of revisions needed the committee recommended resubmitting the package for fall. The committee walked through COMM 2500 and talked through all of the areas
that will need to be addressed in each course proposal form when resubmitting this package.

- **Action Taken:** The committee agreed to table the package for a future meeting due to several errors in the package and the fact this is a package with a delayed implementation to fall of 2016. A motion to table this package to a future meeting was made by Dr. Batts and seconded by Dr. Ratcliff. The motion was approved.

**X. Old Business--none**

**XI. New Business**

1. **New package piece requirement:** Units must include an “affected units” report with their package submission if revising, renumbering, deleting, or banking an existing course. This report is generated using Acalog, the university’s catalog management system, identifies all affected units, and is obtained from Diane Coltraine, Office of the Registrar. This is not an additional vetting step.

   - **Discussion:** The committee agreed to this new requirement.

   - **Action Taken:** A motion to approve was made by Prof. Vail-Smith and seconded by Dr. Scemama. The motion was approved.

2. **New package piece requirement:** Units must include an e-mail from Diane Coltraine, Office of the Registrar confirming the marked catalog copy for the package is complete and properly formatted (e.g., courses lists and program sections included, correct urls included, Word format). This is not an additional vetting step.

   - **Discussion:** The committee agreed to this new requirement.

   - **Action Taken:** A motion to approve was made by Prof. Vail-Smith and seconded by Dr. Scemama. The motion was approved.

3. **Clarification of proposal form requirements for lecture/lab corequisite courses.** If lecture/lab and/or lecture/clinical course(s) are offered together (even if they have 2 different course numbers) and share a grade, only one proposal form is required. The primary instructional format on that form should be “code 13 lecture and lab.” If the lecture/lab and/or lecture/clinical can be taken separately and/or grades are issued independently, each course will require a course proposal form and have separate primary instructional codes (i.e., code 02 lab or 04 lecture).

   - **Discussion:** The committee agreed to this clarification that was discussed at the last meeting.

   - **Action Taken:** A motion to approve was made by Prof. Vail-Smith and seconded by Dr. Scemama. The motion was approved.

4. **Publicize** that course proposals will be reviewed in the order received, based on completeness.

   (added)
Discussions:
- The committee agreed to this addition to help aid in setting agendas.
- Action Taken: A motion to approve was made by Prof. Vail-Smith and seconded by Dr. Scemama. The motion was approved.

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**NEXT MEETING:** April 16, 2015

Dr. Scemama made a motion to adjourn at 6:00 pm. The motion passed and the meeting was adjourned.

Respectfully Submitted by

Mark D. Richardson
Secretary of the UCC
Computer Science, BS

Credit toward a computer science major will not be given for any CSCI course with a grade less than C being used to satisfy the requirements specified in the common core and CSCI electives. Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

See cognates below for courses that fulfill science requirements.

- COMM 2410 - Public Speaking or
- COMM 2420 - Business and Professional Communication or
- COMM 2020 - Fundamentals of Speech Communication
- PHIL 2275 - Professional Ethics

Design, BS

Robert A. Chin, Coordinator, 207 Science and Technology Building

The design program is accredited by the Association of Technology, Management, and Applied Engineering. Minimum degree requirement is 126 s.h. credit as follows:

1. Foundations curriculum requirements including those listed below - 42 s.h.
All concentrations:

- COMM 2410 – Public Speaking or
  COMM 2420 – Business and Professional Communication
- ECON 2113 - Principles of Microeconomics
- MATH 1065 - College Algebra
- PHIL 2274 - Business Ethics or
  PHIL 2275 - Professional Ethics
- PHYS 1250 - General Physics
- PHYS 1251 - General Physics Laboratory
- PSYC 1000 - Introductory Psychology
- PSYC 3241 - Personnel and Industrial Psychology

Architectural Technology:

- GEOL 1700 - Environmental Geology

Mechanical Technology:

- PHYS 1260 - General Physics
- PHYS 1261 - General Physics Laboratory

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1632

Industrial Distribution and Logistics, BS

Mark G. Angolia, Coordinator, 405 Science and Technology Building

The industrial distribution and logistics program is accredited by the Association of Technology, Management, and Applied Engineering.

Minimum degree requirement is **126 s.h.** of credit as follows:
1. Foundations curriculum requirements including those listed below. 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- COMM 2410 - Public Speaking or
- COMM 2420 - Business and Professional Communication

- ECON 2113 - Principles of Microeconomics
- MATH 1065 - College Algebra
- PSYC 1000 - Introductory Psychology
- PSYC 3241 - Personnel and Industrial Psychology

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1634

Industrial Technology, BS

David L. Batts, Coordinator, 230 Slay Building

The industrial technology program is accredited by the Association of Technology, Management, and Applied Engineering.

Student must have an associate of applied science degree from an approved technical program. Minimum degree requirement is 126 s.h. of credit as follows. Students must complete at ECU a minimum of 42 s.h. credit of upper division core and concentration courses. Industrial technology courses completed at ECU and transfer courses must total at least 66 s.h. All students pursuing a bachelor of science in industrial technology through distance education (online) are required to complete ITEC 3000 in their initial semester of enrollment at East Carolina University. For distance education (online) students only, ITEC 3000 will fulfill 3 s.h. of the required 27 s.h. in their chosen concentration area. ITEC 3100, ITEC 4100 or any course that does not meet as a class may not be used as upper division core or concentration courses.

1. Foundations curriculum requirements including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- COMM 2410 - Public Speaking or
- COMM 2420 - Business and Professional Communication
1. Foundations curriculum requirements including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- COMM 2410 - Public Speaking or
  COMM 2420 - Business and Professional Communication
- ECON 2113 - Principles of Microeconomics
- MATH 1065 - College Algebra or
  MATH 1066 - Applied Mathematics for Decision Making
- PHYS 1250 - General Physics
- PHYS 1260 - General Physics
- PHYS 1251 - General Physics Laboratory
- PHYS 1261 - General Physics Laboratory
- PSYC 1000 - Introductory Psychology
- PSYC 3241 - Personnel and Industrial Psychology
Information and Computer Technology, BS

Philip J. Lunsford, Coordinator, C123 Science and Technology Building

The information and computer technology program is accredited by the Association of Technology, Management, and Applied Engineering. Credit toward an information and computer technology major will not be given for any ICTN course with a grade less than C (2.0). Minimum degree requirement is 126 s.h. credit as follows:

1. Foundations curriculum requirements including those listed below. 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- COMM 2410 - Public Speaking or COMM 2420 - Business and Professional Communication
- ECON 2113 - Principles of Microeconomics
- MATH 1065 - College Algebra or MATH 1066 - Applied Mathematics for Decision Making
- PHYS 1250 - General Physics
- PHYS 1251 - General Physics Laboratory
- PHYS 1260 - General Physics
- PHYS 1261 - General Physics Laboratory
- PSYC 1000 - Introductory Psychology
- PSYC 3241 - Personnel and Industrial Psychology

III. Thomas Harriot College of Arts and Sciences, Department of Chemistry

Please delay implementation of these revisions until fall of 2016.

http://catalog.ecu.edu/preview_entity.php?catoid=7&ent_oid=604&returnto=449

Department of Chemistry

Allison Stokes Danell, Interim Chair, SZ 301 Science and Technology Building

Faculty
• Department of Chemistry Faculty

Admission Requirements

Students enrolled at East Carolina University or transferring from other institutions who have a minimum 2.0 GPA and a minimum grade of C (2.0) in CHEM 1150, CHEM 1151, CHEM 1160, CHEM 1161 and MATH 1065 may apply for admission as chemistry majors. Students who hold a baccalaureate degree qualify for admission to the chemistry degree program if they have completed comparable courses as described above with a minimum grade of C (2.0) as part of their first degree.

Chemistry Honors Program

The Department of Chemistry Honors Program provides an opportunity for outstanding chemistry majors to do intensive study and research in areas of special interest. A student desiring to enter the honors program must be a junior or senior majoring in chemistry, and possess a minimum GPA of 3.2 in all courses taken at East Carolina University as well as in all chemistry and cognate courses. Before participating in the honors program, students must notify the director of undergraduate studies chemistry and select a project supervisor from the chemistry faculty. Program participants are expected to select a topic mutual interest to both the student and project supervisor, research the topic through the scientific literature, and then conduct independent research on the topic. Upon completion of the research, the student must submit a detailed written research report and make an oral presentation on the honors project. Course requirements: CHEM 4103; a minimum of 5 h. research and/or independent study from: CHEM 4505, CHEM 4506, CHEM 4507, CHEM 4515, CHEM 4516, CHEM 4517.

Programs

Bachelor’s

• Chemistry, BA
• Chemistry, BS

Minor

• Chemistry Minor

Accelerated

• Chemistry, BS/MS

Courses

• CHEM 0150 - Preparation for College Chemistry
• CHEM 1020 - General Descriptive Chemistry
• CHEM 1021 - General Descriptive Chemistry Laboratory
• CHEM 1120 - Introduction to Chemistry for the Allied Health Sciences
• CHEM 1121 - Basic General, Organic, and Biochemistry Laboratory I
• CHEM 1130 - Organic and Biochemistry for the Allied Health Sciences
- CHEM 1131 - Basic General, Organic, and Biochemistry Laboratory II
- CHEM 1150 - General Chemistry I
- CHEM 1151 - General Chemistry Laboratory I
- CHEM 1160 - General Chemistry II
- CHEM 1161 - General Chemistry Laboratory II
- CHEM 2103 - Introduction to Chemical Literature
- CHEM 2250 - Quantitative and Instrumental Analysis
- CHEM 2251 - Quantitative and Instrumental Analysis
- CHEM 2301 - Teaching Laboratory Chemistry
- CHEM 2650 - Organic Chemistry for the Life Sciences
- CHEM 2651 - Organic Chemistry Lab for the Life Sciences
- CHEM 2750 - Organic Chemistry I
- CHEM 2753 - Organic Chemistry Laboratory I
- CHEM 2760 - Organic Chemistry II
- CHEM 2763 - Organic Chemistry Laboratory II
- CHEM 2770 - Biological Chemistry
- CHEM 2771 - Biological Chemistry Laboratory
- CHEM 3301 - Practicum in Teaching
- CHEM 3450 - Elementary Inorganic Chemistry
- CHEM 3451 - Elementary Inorganic Chemistry Laboratory
- CHEM 3501 - Special Topics in Chemistry
- CHEM 3502 - Special Topics in Chemistry
- CHEM 3503 - Special Topics in Chemistry
- CHEM 3850 - Introduction to Physical Chemistry
- CHEM 3851 - Introduction to Physical Chemistry
- CHEM 3950 - Physical Chemistry and Laboratory I
- CHEM 3951 - Physical Chemistry and Laboratory I
- CHEM 3960 - Physical Chemistry and Laboratory II
- CHEM 3961 - Physical Chemistry and Laboratory II
- CHEM 4103 - Seminar
- CHEM 4350 - Instrumental Analysis
- CHEM 4351 - Instrumental Analysis Laboratory
- CHEM 4505 - Independent Study
- CHEM 4506 - Independent Study
- CHEM 4507 - Independent Study
- CHEM 4515 - Research Problems in Chemistry
- CHEM 4516 - Research Problems in Chemistry
- CHEM 4517 - Research Problems in Chemistry
- CHEM 4522 - Pharmaceutical Industry Skills Laboratory: Good Manufacturing Practices
- CHEM 4550 - Advanced Inorganic Chemistry
- CHEM 5525 - Special Topics
- CHEM 5526 - Special Topics
- CHEM 5527 - Special Topics
- CHEM 5750 - Advanced Organic Chemistry
- CHEM 5760 - Organic Structure Elucidation
- CHEM 5993 - Industrial Internship in Chemistry

Chemistry Banked Courses

- CHEM 1163 - Introduction to Computer Techniques in Experimental Chemistry
• CHEM 1500 - Materials Chemistry I
• CHEM 1510 - Materials Chemistry II and Laboratory
• CHEM 1511 - Materials Chemistry II and Laboratory
• CHEM 2110 - Scientific Glassblowing
• CHEM 2111 - Applications of Molecular Modeling
• CHEM 2650 - Organic Chemistry for the Life Sciences
• CHEM 2651 - Organic Chemistry Lab for the Life Sciences
• CHEM 3860 - Introduction to Instrument - Computer Interfacing
• CHEM 3861 - Introduction to Instrument - Computer Interfacing
• CHEM 5390 - Bioanalytical Chemistry
• CHEM 5450 - Industrial Chemistry
• CHEM 5560 - Inorganic Reaction Mechanisms
• CHEM 5950 - Introduction to Nuclear Chemistry
• CHEM 5951 - Introduction to Nuclear Chemistry
• CHEM 5970 - Chemical Thermodynamics

**CHEM 2650 - Organic Chemistry for the Life Sciences**

4 F

May not count toward CHEM major or minor. May not substitute as a prerequisite for CHEM 2760. P: CHEM 1160, CHEM 1161. Principles of organic chemistry. Emphasis on biologically important topics.

**CHEM 2651 - Organic Chemistry Lab for the Life Sciences**

4 F

3 lab hours per week. May not count toward CHEM major or minor. May not substitute as a prerequisite for CHEM 2763. C: CHEM 2650. Organic lab techniques.

**CHEM 2770 - Biological Chemistry**

3 S

P: CHEM 2650 or CHEM 2760. Chemistry and intermediary metabolism of proteins, carbohydrates, lipids, and nucleic acids.

**CHEM 2250 - Quantitative and Instrumental Analysis**
3 WI F,S

3 lecture and 4 lab hours per week. P: CHEM 1160 with minimum grade of C(2.0), CHEM 1161; CHEM 2650 or CHEM 2750; C: CHEM 2251. Theories and techniques of classical quantitative and modern instrumental analysis.

**CHEM 2251 - Quantitative and Instrumental Analysis**

2 WI F,S

3 lecture and 4 lab hours per week. P: CHEM 1160, CHEM 1161, CHEM 2650 or CHEM 2750; C: CHEM 2250. Theories and techniques of classical quantitative and modern instrumental analysis.

IV. Thomas Harriot College of Arts and Sciences, Department of Geography, Planning, and Environment

http://catalog.ecu.edu/preview_entity.php?catoid=7&ent_oid=608&returnto=449

Courses

**Planning**

**PLAN 2030 – Global Cities**

3 F,S FC:SO GD

Comparative analysis of the urbanization process in a global context. Emphasis on urban challenges to community development and environmental sustainability.

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1491

Urban and Regional Planning, BS

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 120 s.h. of credit as follows:

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

- COMM 2410 - Public Speaking or
- COMM 2420 - Business and Professional Communication

2. Core - 33 s.h.

- GEOG 2400 - Spatial Data Analysis or
- MATH 2228 - Elementary Statistical Methods I or
- MATH 2283 - Statistics for Business
- PLAN 2410 - Fundamentals of GIS
- PLAN 3020 - Environmental Planning
- PLAN 3021 - Introduction to Planning Techniques
- PLAN 3022 - History and Theory of Planning
- PLAN 3030 - Urban and Regional Planning
- PLAN 3031 - Quantitative Analysis in Planning
- PLAN 3032 - Planning Legislation and Administration
- PLAN 4003 - Urban Form and Design
- PLAN 4096 - Planning Studio
- PLAN 4099 - Practicum in Planning

3. Area of emphasis - 9 s.h.

(In consultation with the planning advisor, choose one area from the following.)

Coastal Planning and Development

- PLAN 4015 - Emergency Management Planning
- PLAN 4045 - Environmental Resources Planning and Management or
- PLAN 4065 - Land Use Planning
- PLAN 4055 - Coastal Area Planning and Management

Community Planning and Development:
• PLAN 4025 - Housing and Neighborhood Planning
• PLAN 4040 - Community Facilities Planning or
• PLAN 4065 - Land Use Planning
• PLAN 4075 - Transportation Planning or
• PLAN 5985 - Historic Preservation Planning

4. Electives

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

• PLAN 1900 - Sustainable Cities
• PLAN 2030 – Global Cities
• PLAN 3018 - Planning Internship *
• PLAN 3028 - Planning Internship *
• PLAN 3038 - Planning Internship *
• PLAN 3041 - Computer Applications in Planning
• PLAN 3430 - Geographic Information Systems I
• PLAN 4015 - Emergency Management Planning
• PLAN 4025 - Housing and Neighborhood Planning
• PLAN 4040 - Community Facilities Planning
• PLAN 4045 - Environmental Resources Planning and Management
• PLAN 4046 - Planning and Design Studio
• PLAN 4050 - World Architecture and Urbanism
• PLAN 4055 - Coastal Area Planning and Management
• PLAN 4065 - Land Use Planning
• PLAN 4075 - Transportation Planning
• PLAN 4121 - Problems in Planning
• PLAN 4131 - Problems in Planning
• PLAN 4250 - Environmental Impact Analysis
• PLAN 4270 - Water Resources Management and Planning
• PLAN 4305 - Ecological Landscape Planning
• PLAN 4430 - Geographic Information Systems II
• PLAN 5985 - Historic Preservation Planning

Note:

*May count a maximum of 3 s.h. from PLAN 3018, PLAN 3028, PLAN 3038 toward the degree.

5. Minor or concentration area - 24 s.h.
(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.)

Coastal Resources:

- BIOL 3400 - Biological Field Studies of the Coastal Plain
- BIOL 3401 - Biological Field Studies of the Coastal Plain Laboratory
- COAS 2025 - Survey of Coastal and Marine Resources
- COAS 4025 - Society and the Sea Seminar
- GEOG 4220 - Coastal Geography
- GEOG 4440 - Coastal Applications of GIS
- GEOG 4540 - Coastal Storms
- GEOL 1550 - Oceanography
- GEOL 3700 - Advanced Oceanography
- HIST 5520 - Maritime History of the Western World Since 1815
- SOCI 3410 - Introduction to Maritime Sociology

Community Health:

- ANTH 3027 - Human Health and Disease Ecology
- EHST 2110 - Introduction to Environmental Health Sciences
- EHST 3600 - Air Pollution
- EHST 5800 - Solid and Hazardous Waste Management and Laboratory
- EHST 5801 - Solid and Hazardous Waste Management and Laboratory
- GEOG 4340 - Introduction to Medical Geography
- HLTH 2000 - Principles of Public Health
- HLTH 3050 - Public Health Systems and Policy
- SOCI 3327 - Introductory Medical Sociology

Environmental Resources:

- ANTH 2005 - Environmental Anthropology
- ECON 3855 - Environmental Economics
- GEOG 2350 - Climate Change: Science and Society
- GEOG 3220 - Soil Properties, Surveys, and Applications
- GEOG 3250 - Environmental Hazards
- GEOG 3420 - Remote Sensing of the Environment I
- GEOL 3500 - Hydrogeology and the Environment
• POLS 3256 - Environmental Politics

Geographic Information Science:

• GEOG 3420 - Remote Sensing of the Environment I
• GEOG 3430 - Geographic Information Systems I
• GEOG 3450 - Introduction to the Global Positioning System
• GEOG 3460 - GIS Applications Programming
• GEOG 4410 - Advanced Cartographic Design and Production
• GEOG 4420 - Remote Sensing II
• GEOG 4430 - Geographic Information Systems II
• GEOG 4440 - Coastal Applications of GIS
• GEOG 4450 - GIScience, Society and Technology
• GEOG 4460 - Digital Terrain Analysis

International Development:

• ECON 3353 - Development Economics
• ECON 3750 - Economics of Poverty and Discrimination
• GEOG 2003 - Geography in the Global Economy
• GEOG 2110 - World Geography: Less Developed Regions
• GEOG 4325 - Resources, Population, and Development
• POLS 3140 - Politics of Globalization
• POLS 3257 - International Environmental Policy
• POLS 3297 - International Political Economy
• POLS 4360 - Politics of Developing Areas

Recreation:

• GEOG 2019 - Geography of Recreation
• GEOG 4335 - Geography of Tourism
• RCLS 2000 - Foundations of Recreation, Parks, and Tourism Studies
• RCLS 2601 - Leisure in Society
• RCLS 3104 - Public and Non-Profit Recreation
• RCLS 3120 - Commercial Recreation and Tourism
• RCLS 3300 - Outdoor Recreation Programming
• RCLS 4111 - Recreation and Park Planning

Rural Development:
• ANTH 4260 - Cultural Ecology
• ECON 3750 - Economics of Poverty and Discrimination
• GEOG 3055 - North Carolina
• GEOG 4325 - Resources, Population, and Development
• GEOG 4335 - Geography of Tourism
• HIST 3100 - North Carolina History
• HIST 3300 - History of American Rural Life
• SOCI 3222 - Rural Sociology

Public Administration:

• ECON 4214 - Public Finance
• MGMT 3202 - Fundamentals of Management
• POLS 3240 - State and Local Government
• POLS 3241 - Urban Political Systems
• POLS 3242 - Municipal Policy and Administration
• POLS 3252 - Public Administration
• POLS 3253 - Government Fiscal Administration

Urban Studies:

• EHST 3600 - Air Pollution
• GEOG 3004 - Urban Geography
• GEOG 4560 - Urban Climatology
• HIST 3205 - History of American Urban Life
• POLS 3241 - Urban Political Systems
• POLS 3242 - Municipal Policy and Administration
• SOCI 3225 - Urban Sociology
• SOCI 3289 - Community Organization

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 - Sustainable Cities
- PLAN 3020 - Environmental Planning
- PLAN 3021 - Introduction to Planning Techniques
- PLAN 3030 - Urban and Regional Planning
- PLAN 3032 - Planning Legislation and Administration

2. PLAN Electives - 9 s.h.

V. College of Fine Arts and Communication, School of Art and Design

Art, BFA

Concentrations are offered in animation/ and interactive design, cinematic arts and media production, ceramics, film and video production, graphic design, illustration, metal design, painting, photography, printmaking, sculpture, and textile design.

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

1. Foundations curriculum requirements including the following
- 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

- PHIL 2271 - Introduction to Philosophy of Art

2. Common core - 36 s.h.

Note: Students must earn a grade of C (2.0) in ART common core courses.

- ART 1005 - Design I
- ART 1020 - Drawing
- ART 1905 - The Dimensions of Art
- ART 1906 - Art History Survey
- ART 1907 - Art History Survey

Choose 6 s.h. from

- ART 1015 - Design II
- ART 1025 - Digital Design
- ART 1030 - Figure Drawing

Choose 9 s.h. ART surveys outside the concentration.

Choose 6 s.h. of ART history electives.

3. Areas of Concentration - 30 s.h.

(Choose one area.)
Animation and Interactive Design

- ART 2070 - Animation/Interactive Design Survey
- ART 2470 - Introduction to Digital 3D Modeling and Animation
- ART 3070 - Electronic Interactive Multimedia
- ART 3080
- ART 3081
- ART 3082 - Motion Graphics Studio
- ART 3470 - Digital 3D Animation
- ART 4070 - Advanced Interactive Media
- ART 4411 - Professional Practice
- ART 4470 - Digital 3D Lighting and Rendering

Ceramics

- ART 2105 - Ceramics Survey
- ART 2115 - Ceramics Studio I
- ART 2125 - Ceramics Studio II
- ART 3100 - Ceramics Studio III
- ART 3110 - Ceramics Studio IV
- ART 3120 - Ceramics Studio V
- ART 4100 - Ceramics Studio VI
- ART 4110 - Ceramics Studio VII
- ART 4120 - Ceramics Studio VIII
- ART 5100 - Ceramics Studio IX

Cinematic Arts and Media Production Film and Video Production

- ART 2205 - Digital Video Production Survey
- ART 2206 - Applied Production Techniques
- ART 2411 - Introduction to Scriptwriting
- ART 2460 - Image Theory and Aesthetics
- ART 2480 - Visual Storytelling
- ART 3420 - Cinematography, Lighting and Audio Capture
- ART 3435 - Advanced Scriptwriting
- ART 3450 - Post-production Editing
- ART 3462 - Short-form Narrative Production
- ART 3464 - Agency Production
- ART 3466 - Documentary Production
- ART 4440 - Senior Project Production
- ART 4490 - Senior Seminar/Senior Show

Choose one course from the following:
ART 3462 – Short form Narrative Production  
ART 3464 – Agency Production  
ART 3466 – Documentary Production

Graphic Design

- ART 2200 - Graphic Design Survey  
- ART 2210 - Graphic Design Studio I  
- ART 3200 - Graphic Design Studio II  
- ART 3210 - Graphic Design Studio III  
- ART 4200 - Graphic Design Studio IV  
- ART 4205 - Graphic Design Studio V  
- ART 4210 - Graphic Design Studio VI  
- ART 4215 - Graphic Design Studio VII

Choose two courses from the following:

- ART 3002 - Book Arts One  
- ART 3003 - Introduction to Letterpress  
- ART 3004 - Book Arts Two  
- ART 4010 - Work Experience in the Visual Arts and Design  
- ART 4020 - Work Experience in the Visual Arts and Design  
- ART 4030 - Work Experience in the Visual Arts and Design  
- ART 4220 - Studio Photography  
- ART 4610 - Printmaking Studio VI

Illustration

- ART 2200 - Graphic Design Survey  
- ART 2210 - Graphic Design Studio I  
- ART 2220 - Photography Survey  
- ART 2230 - Illustration Survey  
- ART 3240 - Illustration Media and Techniques  
- ART 4230 - Intermediate Illustration  
- ART 4330 - Advanced Illustration

Choose three courses from the following:

- ART 2540 - Intermediate Drawing  
- ART 3551 - Problems in Figure Drawing
• ART 3555 - Drawing Media and Technique
• ART 3560 - Painting: Watercolor
• ART 3561 - Painting Studio I

Metal Design

• ART 2300 - Metal Design Survey
• ART 2301 - Metal Design Studio I (Jewelry)
• ART 2311 - Metal Design Studio II (Enameling)
• ART 2321 - Metal Design Studio III (Raising, Spinning, Chasing, Repousse, Forging)
• ART 3301 - Metal Design Studio IV
• ART 3311 - Metal Design Studio V
• ART 3321 - Metal Enameling Studio II
• ART 4301 - Metal Design Studio VI
• ART 4311 - Metal Design Studio VII
• ART 5301 - Metal Design Studio VIII

Painting

• ART 2560 - Painting Survey: Materials and Methods

Choose 3 courses from the following:

Drawing:

• ART 2540 - Intermediate Drawing
• ART 2550 - Intermediate Figure Drawing
• ART 3551 - Problems in Figure Drawing
• ART 3552 - Problems in Figure Drawing
• ART 3553 - Problems in Figure Drawing
• ART 3554 - Figure and the Environment
• ART 3555 - Drawing Media and Technique
• ART 4551 - Selected Problems in Drawing
• ART 5550 - Advanced Figure Drawing
• ART 5551 - Advanced Drawing

Printmaking:

• ART 2010 - Printmaking Survey
• ART 2600 - Printmaking Studio I
• ART 2610 - Printmaking Studio II
• ART 3600 - Printmaking Studio III
• ART 3610 - Printmaking Studio IV
• ART 4600 - Printmaking Studio V
• ART 4610 - Printmaking Studio VI
• ART 4620 - Printmaking Studio VII
• ART 4630 - Printmaking Studio VIII
• ART 4640 - Printmaking Studio IX
• ART 4650 - Printmaking Studio X

Choose five courses from the following:

• ART 2561 - Painting: Composition - Design for Painting
• ART 3560 - Painting: Watercolor
• ART 3561 - Painting Studio I
• ART 3562 - Figure Painting
• ART 3563 - Painting Studio II
• ART 3564 - Advanced Figure Painting
• ART 3566 - Portrait Painting
• ART 4560 - Advanced Painting I
• ART 4561 - Advanced Painting II
• ART 4562 - Advanced Painting III
• ART 4563 - Advanced Painting IV
• ART 4564 - Advanced Painting V
• ART 5560 - Advanced Painting VI
• ART 5561 - Advanced Painting VII

Choose one course from the following:

• ART 4560 - Advanced Painting I
• ART 4561 - Advanced Painting II
• ART 4562 - Advanced Painting III
• ART 4563 - Advanced Painting IV
• ART 4564 - Advanced Painting V
• ART 5560 - Advanced Painting VI
• ART 5561 - Advanced Painting VII

Note: Courses cannot count in more than one category.

Photography

• ART 2220 - Photography Survey
• ART 2225 - Basic Black and White Photography
• ART 3250 - Introduction to Digital Photography
• ART 3260 - Intermediate Photography
• ART 3270 - Color Photography
• ART 3280 - Concepts in Photography
• ART 4220 - Studio Photography
• ART 4240 - Advanced Digital Photography
• ART 4250 - Professional Practices in Photography
• ART 4260 - Advanced Photography

Printmaking

• ART 2010 - Printmaking Survey
• ART 2600 - Printmaking Studio I
• ART 2610 - Printmaking Studio II
• ART 3600 - Printmaking Studio III
• ART 3610 - Printmaking Studio IV
• ART 4600 - Printmaking Studio V
• ART 4610 - Printmaking Studio VI
• ART 4620 - Printmaking Studio VII
• ART 4630 - Printmaking Studio VIII
• ART 4640 - Printmaking Studio IX

Sculpture

• ART 2705 - Sculpture Survey
• ART 2715 - Sculpture Studio I
• ART 2725 - Sculpture Studio II
• ART 3700 - Sculpture Studio III
• ART 3710 - Sculpture Studio IV
• ART 3720 - Sculpture Studio V
• ART 4700 - Sculpture Studio VI
• ART 4710 - Sculpture Studio VII
• ART 4711 - Sculpture Studio VIII
• ART 4712 - Sculpture Studio IX

Textile Design

• ART 2303 - Textile Design Survey
• ART 2325 - Introduction to Weaving Design
• ART 2326 - Screen Printing on Cloth
• ART 2335 - Weaving Design II
• ART 2336 - Dye and Paint Applications to Cloth
Choose five courses from the following:

- ART 3305 - Traditional Felt Making
- ART 3306 - Textile Industry Portfolio
- ART 3315 - Dimensional Textiles
- ART 3316 - Fabric Manipulation and Construction
- ART 4305 - Material and Woven Structure
- ART 4306 - Garment Construction and Fashion Design I
- ART 4315 - Surface and Woven Structure
- ART 4316 - Garment Construction and Fashion Design II
- ART 4326 - Contemporary Issues in Surface Design
- ART 4335 - Contemporary Issues in Weaving
- ART 4336 - Senior Project in Surface Design
- ART 4345 - Senior Project in Weaving

4. Electives - 18 s.h.

Electives may be in any ART prefix, including art history. Choose a minimum of 6 s.h. outside the area of concentration; the 6 s.h. must be from two different areas.

5. Acceptance into the concentration by portfolio review

Individual concentrations require a portfolio review for acceptance into the area. Entrance is competitive and space may be limited. Students not accepted into their preferred program or area of concentration should be prepared to seek alternative areas of concentration and/or degree programs. Students should speak with faculty in their desired concentration to receive detailed instructions regarding the portfolio review process and requirements.

Students apply to concentrations after successfully completing the following courses:

*Animation/Interactive Design* - ART 2070 and/or ART 2470  
*Ceramics* - ART 2105 and ART 2115  
*Cinematic Arts and Media Production* - Film and Video Production - ART 2205 and ART 2206 (with a minimum 2.6 GPA in both courses)  
*Graphic Design* - ART 2200 and ART 2210 (with a minimum 2.6 GPA in both courses)  
*Illustration* - ART 2230 (with a minimum 2.6 GPA in course and in any concentration courses taken)  
*Metal Design* - ART 2300  
*Painting* - ART 2560 and ART 2561; or ART 3561  
*Photography* - ART 2220 and ART 2225 (with a minimum 2.6 GPA in both courses)  
*Printmaking* - ART 2010, ART 2600, ART 2610, and ART 3600  
*Sculpture* - ART 2705  
*Textile Design* - ART 2303
6. An approved senior show and digital documentation of work exhibited are requirements for graduation.

VI. Thomas Harriot College of Arts and Sciences, Department of Mathematics

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MATH 4057 - Matrix Algebra
3

MATH 4065 - Applied Modern Algebra
3
P: MATH 3263. Abstract rings and fields. Applications of groups, rings, and fields which may include Boolean algebras, circuits, cryptography, coding theory, and block designs.

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Courses

Mathematics

- MATH 0001 - Intermediate Algebra-A
- MATH 0045 - Intermediate Algebra-B
- MATH 1050 - Explorations in Mathematics
- MATH 1065 - College Algebra
- MATH 1066 - Applied Mathematics for Decision Making
- MATH 1067 - Algebraic Concepts and Relationships
- MATH 1074 - Applied Trigonometry
- MATH 1077 - Pre-Calculus Concepts and Relationships
- MATH 1083 - Introduction to Functions
- MATH 1085 - Pre-Calculus Mathematics
- MATH 2119 - Elements of Calculus
- MATH 2121 - Calculus for the Life Sciences I
- MATH 2122 - Calculus for the Life Sciences II
- MATH 2124 - Elementary Mathematical Models
- MATH 2127 - Basic Concepts of Mathematics
- MATH 2151 - Engineering Calculus I
- MATH 2152 - Engineering Calculus II
- MATH 2153 - Engineering Calculus III
- MATH 2154 - Engineering Linear Algebra and Differential Equations I
- MATH 2171 - Calculus I
- MATH 2172 - Calculus II
- MATH 2173 - Calculus III
- MATH 2228 - Elementary Statistical Methods I
- MATH 2282 - Data Analysis and Probability
- MATH 2283 - Statistics for Business
- MATH 2300 - Transition to Advanced Mathematics
- MATH 2427 - Discrete Mathematical Structures
- MATH 2775 - Topics in Discrete Mathematics
- MATH 2935 - Data Analysis
- MATH 3100 - Mathematical Methods for Engineers and Scientists
- MATH 3166 - Euclidean Geometry
- MATH 3174 - Vector Calculus
- MATH 3229 - Elementary Statistical Methods II
- MATH 3233 - College Geometry
- MATH 3237 - Discrete Mathematics
- MATH 3239 - Applied Mathematics Via Modeling
- MATH 3256 - Linear Algebra
- MATH 3263 - Introduction to Modern Algebra
- MATH 3273 - Combinatorics
- MATH 3301 - Foundations of Geometry
- MATH 3307 - Mathematical Statistics I
- MATH 3308 - Mathematical Statistics II
- MATH 3550 - Mathematics Honors
- MATH 3551 - Mathematics Honors
- MATH 3573 - Introduction to Numerical Analysis
- MATH 3584 - Computational Linear Algebra
- MATH 4005 - Introduction to Sampling and Experimental Design
- MATH 4031 - Applied Statistical Analysis
- MATH 4057 - Matrix Algebra
- MATH 4065 - Applied Modern Algebra
- MATH 4100 - Mathematics of Risk Analysis
- MATH 4101 - Advanced Calculus I
- MATH 4110 - Elementary Complex Variables
- MATH 4201 - Introduction to Stochastic Processes
- MATH 4264 - Introduction to Modern Algebra II
- MATH 4300 - Financial and Actuarial Mathematics
- MATH 4322 - Foundations of Mathematics
- MATH 4331 - Introduction to Ordinary Differential Equations
- MATH 4332 - The Calculus of Finite Differences
- MATH 4501 - Independent Study
- MATH 4502 - Independent Study
- MATH 4503 - Independent Study
- MATH 4550 - Mathematics Honors
- MATH 4551 - Mathematics Honors
- MATH 4774 - Programming for Research
• MATH 4801 - Probability Theory
• MATH 4999 - Capstone and Statistical Consulting
• MATH 5002 - Logic for Mathematics and Computer Science
• MATH 5021 - Theory of Numbers I
• MATH 5031 - Applied Statistical Analysis
• MATH 5064 - Introduction to Modern Algebra II
• MATH 5101 - Advanced Calculus I
• MATH 5102 - Advanced Calculus II
• MATH 5110 - Elementary Complex Variables
• MATH 5121 - Numerical Analysis in One Variable
• MATH 5122 - Numerical Analysis in Several Variables
• MATH 5131 - Deterministic Methods in Operations Research
• MATH 5132 - Probabilistic Methods in Operations Research
• MATH 5270 - Pascal Using the Microcomputer
• MATH 5311 - Mathematical Physics
• MATH 5322 - Foundations of Mathematics
• MATH 5521 - Readings and Lectures in Mathematics
• MATH 5551 - The Historical Development of Mathematics
• MATH 5581 - Theory of Equations
• MATH 5774 - Programming for Research
• MATH 5801 - Probability Theory

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1521

Mathematics, BS

Credit toward a mathematics major will not be given in any MATH course with a grade less than C-(1.7). Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum.)

2. Common mathematics core - 37 s.h.

• MATH 2171 - Calculus I
• MATH 2172 - Calculus II
• MATH 2173 - Calculus III
• MATH 2300 - Transition to Advanced Mathematics
• MATH 3256 - Linear Algebra
- MATH 3263 - Introduction to Modern Algebra
- MATH 3307 - Mathematical Statistics I
- MATH 3308 - Mathematical Statistics II
- MATH 4101 - Advanced Calculus I
- MATH 4331 - Introduction to Ordinary Differential Equations
- CSCI 2310 - Algorithmic Problem Solving and Programming Laboratory
- CSCI 2311 - Algorithmic Problem Solving and Programming Laboratory

3. Concentration area - 13-33 s.h.

(Choose one area.)

Mathematics - 27-33 s.h.:

- MATH 4110 - Elementary Complex Variables
- Minor (24-30 s.h.)

Science - 27-28 s.h.

- CHEM 1150 - General Chemistry I
- CHEM 1151 - General Chemistry Laboratory I
- CHEM 1160 - General Chemistry II
- CHEM 1161 - General Chemistry Laboratory II
- MATH 4110 - Elementary Complex Variables
- PHYS 2350 - University Physics
- PHYS 2360 - University Physics

Choose one of the following:

- BIOL 1100 - Principles of Biology I
- BIOL 1101 - Principles of Biology Laboratory I
- and
- BIOL 1200 - Principles of Biology II
- BIOL 1201 - Principles of Biology Laboratory II
- A combination of any 3 courses numbered above 1999 in chemistry or numbered above 3999 in physics.

Statistics - 18 s.h.
• MATH 4005 - Introduction to Sampling and Experimental Design
• MATH 4031 - Applied Statistical Analysis
• MATH 4100 - Mathematics of Risk Analysis or
• MATH 4300 - Financial and Actuarial Mathematics
• MATH 4201 - Introduction to Stochastic Processes
• MATH 4774 - Programming for Research
• MATH 4801 - Probability Theory

Computer Science - 13 s.h.

• CSCI 2410 - Digital Electronics or
• EENG 2410 - Digital Electronics
• or
• CSCI 3675 - Organization of Programming Language
• or
• MATH 4110 - Elementary Complex Variables
• CSCI 3300 - Introduction to Algorithms and Data Structures
• CSCI 3310 - Advanced Data Structures and Data Abstraction
• CSCI 3650 - Analysis of Algorithms

4. Specified electives

Mathematics - 9 s.h.:

Choose 9 additional s.h. in consultation with advisor from

• MATH 3174 - Vector Calculus
• MATH 3233 - College Geometry
• MATH 3273 - Combinatorics
• MATH 3301 - Foundations of Geometry
• MATH 3573 - Introduction to Numerical Analysis
• MATH 4057 - Matrix Algebra
• MATH 4065 - Applied Modern Algebra
• MATH 4100 - Mathematics of Risk Analysis
• MATH 4201 - Introduction to Stochastic Processes
• MATH 4264 - Introduction to Modern Algebra II
• MATH 4300 - Financial and Actuarial Mathematics
• MATH 4801 - Probability Theory
• MATH 5002 - Logic for Mathematics and Computer Science
• MATH 5021 - Theory of Numbers I
• MATH 5102 - Advanced Calculus II
• MATH 5121 - Numerical Analysis in One Variable
• MATH 5122 - Numerical Analysis in Several Variables
• MATH 5131 - Deterministic Methods in Operations Research
• MATH 5132 - Probabilistic Methods in Operations Research
• MATH 5311 - Mathematical Physics
• MATH 5322 - Foundations of Mathematics
• MATH 5551 - The Historical Development of Mathematics

Science - 3 s.h.

Choose 3 additional s.h. in consultation with advisor from

• MATH 3174 - Vector Calculus
• MATH 3233 - College Geometry
• MATH 3273 - Combinatorics
• MATH 3301 - Foundations of Geometry
• MATH 3573 - Introduction to Numerical Analysis
• MATH 4057 - Matrix Algebra
• MATH 4065 - Applied Modern Algebra
• MATH 4100 - Mathematics of Risk Analysis
• MATH 4201 - Introduction to Stochastic Processes
• MATH 4264 - Introduction to Modern Algebra II
• MATH 4300 - Financial and Actuarial Mathematics
• MATH 4801 - Probability Theory
• MATH 5002 - Logic for Mathematics and Computer Science
• MATH 5021 - Theory of Numbers I
• MATH 5102 - Advanced Calculus II
• MATH 5121 - Numerical Analysis in One Variable
• MATH 5122 - Numerical Analysis in Several Variables
• MATH 5131 - Deterministic Methods in Operations Research
• MATH 5132 - Probabilistic Methods in Operations Research
• MATH 5311 - Mathematical Physics
• MATH 5322 - Foundations of Mathematics
• MATH 5551 - The Historical Development of Mathematics

Statistics - 12 s.h.

Choose 12 s.h. electives from:

• ECON 3343 - Econometrics
• ECON 4430 - Business Cycles and Forecasting
• OMGT 4493 - Quality Management
- MATH courses numbered above 2999

Note:

MATH 3229, MATH 3237, MATH 3239 may not count toward statistics electives.

Computer Science - 15 s.h.

Choose 3 s.h. from

- MATH 3174 - Vector Calculus
- MATH 3233 - College Geometry
- MATH 3273 - Combinatorics
- MATH 3301 - Foundations of Geometry
- MATH 3573 - Introduction to Numerical Analysis
- MATH 4057 - Matrix Algebra
- MATH 4065 - Applied Modern Algebra
- MATH 4100 - Mathematics of Risk Analysis
- MATH 4201 - Introduction to Stochastic Processes
- MATH 4264 - Introduction to Modern Algebra II
- MATH 4300 - Financial and Actuarial Mathematics
- MATH 4801 - Probability Theory
- MATH 5002 - Logic for Mathematics and Computer Science
- MATH 5021 - Theory of Numbers I
- MATH 5102 - Advanced Calculus II
- MATH 5121 - Numerical Analysis in One Variable
- MATH 5122 - Numerical Analysis in Several Variables
- MATH 5131 - Deterministic Methods in Operations Research
- MATH 5132 - Probabilistic Methods in Operations Research
- MATH 5311 - Mathematical Physics
- MATH 5322 - Foundations of Mathematics
- MATH 5551 - The Historical Development of Mathematics

Choose 12 s.h. of

- CSCI electives numbered above 1999
- CSCI 2310 - Algorithmic Problem Solving and Programming Laboratory
- CSCI 2311 - Algorithmic Problem Solving and Programming Laboratory
- CSCI 2610 - Introduction to Computer Science II and Laboratory
- CSCI 2611 - Introduction to Computer Science II and Laboratory
- CSCI 3300 - Introduction to Algorithms and Data Structures
CSCI 3310 - Advanced Data Structures and Data Abstraction  
CSCI 3510 - Data Structures  
CSCI 3584 - Computational Linear Algebra  
CSCI 3601 - Computer Organization and Programming  
CSCI 3650 - Analysis of Algorithms

5. Electives to complete requirements for graduation.

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VII. College of Health and Human Performance, Department of Recreation and Leisure Studies

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1601

Recreational Therapy, BS

The recreational therapy (RT) program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the Committee on Accreditation for Recreational Therapy Education (CARTE). Any student wishing to declare a major in recreational therapy (RT) must, at the time of entrance into the curriculum, possess a minimum 2.5 GPA; have completed ENGL 1100, ENGL 1200; MATH 1065 or MATH 1066 or MATH 1067 or MATH 2127; and BIOL 2130, BIOL 2131 or BIOL 2140, BIOL 2141; have submitted an application; have a personal interview with a RT faculty member; and have completed a sequencing form (timetable) in consultation with a RCTX advisor in the HHP Advising Center and their RT faculty advisor. Prior to registering for 4000 level RCTX courses, all RT students are required to complete the Recreational Therapy Fieldwork Experience. This requires a minimum of 25 documented hours of directed experience in recreational therapy programs and recreation-based activities for individuals with disabilities. Information relating to this process is provided via department web site, through the HHP advising center and through the RT faculty. Admission to recreational therapy is competitive and limited due to space availability. Majors must maintain a minimum cumulative 2.5 GPA and a minimum cumulative 2.5 GPA in all cognate courses to remain in good standing. Majors must earn a minimum grade of C (2.0) in all required RCLS and RCTX courses. A student wishing to appeal should contact the RCLS department chair within two weeks of notification of academic deficiency. Graduates are eligible to apply to sit for the examination to become nationally credentialed as a Certified Therapeutic Recreation Specialist (CTRS) and Licensed Recreational Therapist (LRT) in North Carolina. The minimum degree requirement is 124 s.h. of credit as follows:

1. Foundations curriculum requirements including those listed below - 42 s.h.

(For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)
• BIOL 1050 - General Biology
• BIOL 1051 - General Biology Laboratory
  or
• BIOL 1100 - Principles of Biology I
• BIOL 1101 - Principles of Biology Laboratory I
  or
• BIOL 1150 - Principles of Biology: A Human Approach
• BIOL 1151 - Principles of Biology: A Human Approach Discussion

• BIOL 2130 - Survey of Human Physiology and Anatomy

• MATH 1065 - College Algebra or
• MATH 1066 - Applied Mathematics for Decision Making or
• MATH 1067 - Algebraic Concepts and Relationships or
• MATH 2127 - Basic Concepts of Mathematics

• PHIL 2275 - Professional Ethics or
• PHIL 3281 - Introduction to Philosophical Ethics in the Health Care Professions

• PSYC 1000 - Introductory Psychology

• PSYC 3225 - Psychology of Learning or
• PSYC 3226 - Cognitive Psychology

• RCLS 2601 - Leisure in Society
• SOCI 2110 - Introduction to Sociology

2. Core - 54 s.h.

• RCLS 3003 - Recreation and Event Programming
• RCLS 3004 - Recreation Programming Experience
• RCLS 4000 - Research Methods and Techniques
• RCLS 4004 - Philosophical and Theoretical Issues in Leisure
• RCTX 2230 - Recreational Therapy Foundations
• RCTX 3240 - Disability Survey for Recreational Therapy Services
• RCTX 3262 - Treatment Interventions I
• RCTX 3263 - Treatment Interventions II
• RCTX 4001 - Stress Management: Principles and Practices
• RCTX 4200 - Advanced Stress Management
• RCTX 4252 - Recreational Therapy Leadership and Group Dynamics
• RCTX 4254 - Assessment and Measurement in Recreational Therapy
• RCTX 4260 - Recreational Therapy Senior Practicum
• RCTX 4266 - Organization and Management of Recreational Therapy Services
• RCTX 4268 - Comprehensive and Individual Treatment Programming in Recreational Therapy
• RCTX 4900 - Recreational Therapy Professional Development
• RCTX 4902 - Recreational Therapy Internship Pre-Placement Seminar
• RCTX 4990 - Recreational Therapy Internship

3. Cognates - 16 s.h.
• ATEP 2800 - Medical Nomenclature for Human Performance
• BIOL 2131 - Survey of Human Physiology and Anatomy Laboratory
• EXSS 2850 - Structural Kinesiology
• PSYC 3206 - Developmental Psychology
• PSYC 3375 - Abnormal Psychology

Choose 6 s.h. from:

• EXSS 5303 - Physical Activity Programs for Individuals with Developmental, Emotional, and Learning Disabilities or
• EXSS 5903 - Physical Activity Programs for Individuals with Orthopedic, Neurologic, and Sensory Impairments

• RCLS 2400 - Adventure-Based Program Leadership
• RCTX 3202 - Camping and Adventure Programming for Individuals with Disabilities
• RCTX 4210 - Introduction to Biofeedback
• RCTX 4211 - Biofeedback Lab
• RCTX 5000 - Theoretical Foundations of Aquatic Rehabilitation
• RCTX 5001 - Applied Techniques in Aquatic Rehabilitation
• Other courses as approved by the RCLS department chair.

4. Electives to complete requirements for graduation.

http://catalog.ecu.edu/preview_program.php?catoid=7&poid=1603

Recreational Therapy Minor

Minimum requirement for the recreational therapy minor is 25 s.h. of credit as follows:

1. Core - 19 s.h.

• RCLS 3003 - Recreation and Event Programming
• RCLS 3004 - Recreation Programming Experience
• RCTX 2230 - Recreational Therapy Foundations
• RCTX 3240 - Disability Survey for Recreational Therapy Services

• RCTX 3262 - Treatment Interventions I
• RCTX 3263 - Treatment Interventions II
• RCTX 4001 - Stress Management: Principles and Practices
• RCTX 4200 - Advanced Stress Management

• RCTX 4254 - Assessment and Measurement in Recreational Therapy
• RCTX 4268 - Comprehensive and Individual Treatment Programming in Recreational Therapy

2. Cognates - 6 s.h.

• PSYC 3206 - Developmental Psychology
• PSYC 3375 - Abnormal Psychology
Recreation and Park Management Minor

Minimum requirement for the recreation and park management minor is 25 s.h. of credit as follows:

1. **Core - 10 s.h.**
   - RCLS 2000 - Foundations of Recreation, Parks, and Tourism Studies
   - RCLS 3003 - Recreation and Event Programming
   - RCLS 3004 - Recreation Programming Experience
   - RCLS 4002 - Recreation, Parks, and Tourism Administration

2. **RCLS courses from RPM degree program - 15 s.h.**

   Choose 2 courses from this list:
   - RCLS 2400 - Adventure-Based Program Leadership
   - RCLS 2600 - Outdoor Recreation Activities
   - RCLS 2601 - Leisure in Society
   - RCLS 3104 - Public and Non-Profit Recreation
   - RCLS 3120 - Commercial Recreation and Tourism
   - RCLS 3131 - Recreation for Diverse Populations
   - RCLS 3300 - Outdoor Recreation Programming
   - RCLS 3500 - Recreation Leadership and Group Process
   - RCLS 3501 - Recreation Leadership and Group Process Lab

   Choose the remaining credits for the minor from this list:
   - RCLS 4000 - Research Methods and Techniques
   - RCLS 4004 - Philosophical and Theoretical Issues in Leisure
   - RCLS 4111 - Recreation and Park Planning
   - RCLS 4120 - Recreation, Parks, and Tourism Marketing
   - RCLS 4121 - Tourism Planning and Development
   - RCLS 4122 - Case Studies in Recreation, Parks, and Tourism Management
   - RCLS 4123 - Study Abroad in International Sustainability
   - RCLS 4124 - Study Abroad in Sustainable Tourism
   - RCLS 4130 - Recreational Sport Programming
   - RCLS 4170 - Youth Development Organizations and Services
   - RCLS 4800 - Great Smoky Mountains Outdoor Field Experience
   - RCLS 5100 - Aquatic Facility Management
   - RCLS 5111 - Recreational Facilities Management
   - **RCTX 4001 – Stress Management: Principles and Practices**
   - RCTX 4200 - Advanced Stress Management

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RCTX 2200 - Principles and Practices in Stress Management
3

RCTX 4001 - Stress Management: Principles and Practices
Same as HLTH 4001
3

RCTX 4200 - Advanced Stress Management
3
Development, implementation, evaluation, and analysis of research based stress management interventions related to health care.

http://catalog.ecu.edu/preview_entity.php?catoid=7&ent_oid=643&returnto=449

Courses

Recreational Therapy

- RCTX 2200 - Principles and Practices in Stress Management
- RCTX 2230 - Recreational Therapy Foundations
- RCTX 3202 - Camping and Adventure Programming for Individuals with Disabilities
- RCTX 3240 - Disability Survey for Recreational Therapy Services
- RCTX 3262 - Treatment Interventions I
- RCTX 3263 - Treatment Interventions II
- RCTX 4001 - Stress Management: Principles and Practices
- RCTX 4200 - Advanced Stress Management
- RCTX 4210 - Introduction to Biofeedback
- RCTX 4211 - Biofeedback Lab
- RCTX 4252 - Recreational Therapy Leadership and Group Dynamics
- RCTX 4254 - Assessment and Measurement in Recreational Therapy
- RCTX 4260 - Recreational Therapy Senior Practicum
- RCTX 4266 - Organization and Management of Recreational Therapy Services
- RCTX 4268 - Comprehensive and Individual Treatment Programming in Recreational Therapy
- RCTX 4900 - Recreational Therapy Professional Development
- RCTX 4902 - Recreational Therapy Internship Pre-Placement Seminar
- RCTX 4990 - Recreational Therapy Internship
- RCTX 5000 - Theoretical Foundations of Aquatic Rehabilitation
- RCTX 5001 - Applied Techniques in Aquatic Rehabilitation

VIII. College of Human Ecology, Department of Child Development and Family Relations
CDFR 3290 - Theory and Practice in Family and Community Services
3 SL*: Selected Sections are Service Learning. WI F, S
P: CDFR 2280 with a C (2.0) or better; COMM 2020 or COMM 2410 or COMM 2420; FCS major. Examination of theories and applications of professional skills for working within family and community agencies.

CDFR 3560 - Exploring Professions and Practices in Family Science
3 F, S
P: CDFR 2280. Human service skills within the context of the domains of family practice.

CDFR 4001 - Community Services Internship
9 F, S
Minimum of 352 hours to include labs and classroom work. P: FCS major with senior standing; CDFR 4366 with a C (2.0) or better; CDFR 4410 with a C (2.0) or better; 2.5 GPA. Observe and participate in community agency.

CDFR 4002 - Child Development: Early Intervention Internship
9 F, S
Minimum of 352 hours to include labs and classroom work. P: Senior standing; BK major; 2.5 GPA. P/C: CDFR 4406. Observe and participate in an agency or program serving children ages birth through 8 years.

CDFR 4380 - Grant Writing, Fundraising, and Leadership Development
3 WI F, S
P: CDFR 2280. Grant writing, fundraising, and leadership skills within the context of family and community services.

CDFR 4991 - Family Science Internship
9 F, S Formerly CDFR 4001
Minimum of 352 hours to include labs and classroom work. P: FCS major with senior standing; CDFR 4366 with a C (2.0) or better; CDFR 4410 with a C (2.0) or better; 2.5 GPA. Observation and participation in a community agency.

CDFR 4992 - Child Development Internship
9 F, S Formerly CDFR 4002
Minimum of 352 hours to include labs and classroom work. P: FCS major with senior standing; CDFR 4366 with a C (2.0) or better; CDFR 4410 with a C (2.0) or better; 2.5 GPA. Observation and participation in an agency or program serving children ages birth through 8 years.

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Department of Child Development and Family Relations

Sharon Ballard, Chair, 108 Rivers Building
The mission of the Department of Child Development and Family Relations is to educate future leaders and professionals to enrich the wellbeing of individuals, children, families, and communities through innovative teaching, research, service and community engagement.

The Department of Child Development and Family Relations offers programs that prepare students to work with children and families in educational, governmental, community, and child health fields.

Students interested in teaching young children can choose the Birth through Kindergarten program, which results in licensure to teach in NC public schools or in private centers. Students interested in teaching middle school or high school can choose the Family and Consumer Sciences program, which results in licensure to teach middle grades or high school in NC public schools. Students complete course work in partial fulfillment for teacher licensure in family and consumer sciences education or birth-kindergarten teacher education from the North Carolina Department of Public Instruction.

Students interested in working with families in community, governmental, and family services programs may consider the Family and Community Services program and choose the Family Science concentration. Students interested in working with agencies that provide education and services to young children such as early intervention, Head Start, developmental day, and exceptional children programs may consider the Family and Community services program and choose the Child Development concentration. Students complete course work in partial fulfillment of the Family Life Education Certification from the National Council on Family Relations, the Infant-Toddler Program Personnel Certification from the NC Department of Health and Human Services.

Students interested in working with medically fragile and/or chronically ill children and families may consider the Child Life program. Students complete course work in partial fulfillment of the Child Life Certification from the Association for the Care of Children’s Health.

**Early Childhood Education and Child Development**
The department has two options in early childhood education: teacher licensure and child development/early intervention. Students interested in working with young children in public schools may choose the birth through kindergarten education (BK) program. Students interested in working with agencies that provide education and services to young children such as early intervention, Head Start, developmental day, and exceptional children programs may choose the family and community services program (child development/early intervention option concentration).

**Family Studies and Consumer Sciences**
The department has two options in family studies/science. Students interested in teaching about children, families, and consumer issues in middle and high schools may chose the family and consumer science education program. Students interested in working with families in community, governmental, and family services programs may consider the family and community services program (family studies option science concentration). Students complete course work in partial fulfillment of the Family Life Education Certification from the National Council on Family Relations, the Infant-Toddler Program Personnel Certification from the NC Department of Health and Human Services, Child Life Certification from the Association for the Care of Children’s Health, and teacher licensure in family and consumer sciences education and birth-kindergarten teacher education from the North Carolina Department of Public Instruction.

Programs
Bachelor’s

- Birth Through Kindergarten Teacher Education, BS
- Child Life, BS
- Family and Community Services, BS
- Family and Consumer Sciences Education, BS

Minor

- Child Development and Family Relations Minor

Courses

Child Development and Family Relations

- CDFR 1103 - Marriage and Family Relations
- CDFR 2000 - Child Development I: Prenatal Through Early Childhood
- CDFR 2001 - Child Development II: Middle Childhood Through Young Adulthood
- CDFR 2021 - Introduction to Child Life
- CDFR 2123 - Early Experience in Birth through Kindergarten Education
- CDFR 2124 - Interaction Techniques for Working with Young Children
- CDFR 2280 - Introduction to Child, Family, and Community Services
- CDFR 2400 - Introduction to Gerontology
- CDFR 3002 - Child in the Family
- CDFR 3022 - Death, Dying, and Bereavement
- CDFR 3150 - Introduction to Early Childhood Intervention
- CDFR 3210 - Models and Foundations of Early Childhood Education
- CDFR 3215 - The Family As Consumers
- CDFR 3290 - Theory and Practice in Family and Community Services
- CDFR 3306 - Guiding Children’s Behavior
- CDFR 3321 - Infant and Toddler Curriculum
- CDFR 3400 - Current Issues in Early Childhood Education
- CDFR 3413 - The Hospitalized Child
- CDFR 3560 - Exploring Professions and Practices in Family Science
- CDFR 4000 - Introduction to Child and Family Research
- CDFR 4001 - Community Services Internship
- CDFR 4002 - Child Development: Early Intervention Internship
- CDFR 4006 - Families, Sexuality, and Gender Roles
- CDFR 4007 - Public Policy and Legal Issues Affecting Families
- CDFR 4100 - Study Abroad in CDFR
- CDFR 4121 - Social Studies, Math, and Science Curriculum in Early Childhood
- CDFR 4122 - Language and Literacy Curriculum in Early Childhood
- CDFR 4123 - Learning Environments and Teaching Methods in Early Childhood Education
- CDFR 4200 - Assessing Development and Learning in the Early Childhood Classroom
- CDFR 4201 - Assessment for Intervention
• CDFR 4210 - Child Life Practicum
• CDFR 4300 - Birth through Kindergarten Curriculum Adaptations for Diverse Learners
• CDFR 4303 - Families and Cultural Diversity
• CDFR 4313 - Trends and Issues in Family Studies
• CDFR 4320 - Practicum in Teaching Birth-Kindergarten in the Public Schools
• CDFR 4324 - Internship in Birth Through Kindergarten Education
• CDFR 4325 - Internship Seminar: Issues in Birth-Kindergarten Education
• CDFR 4366 - Family Life Education
• CDFR 4380 - Grant Writing, Fundraising, and Leadership Development
• CDFR 4390 - Family Resource Management
• CDFR 4406 - Parent-Professional Collaboration
• CDFR 4408 - Administration of Programs for Young Children
• CDFR 4410 - Professional Seminar
• CDFR 4415 - Child Life Internship
• CDFR 4500 - Independent Study
• CDFR 4521 - Research, Teaching, and Leadership Experiences in CDFR
• CDFR 4611 - Counseling Elders and Their Families
• CDFR 4612 - Family Crises and Resources
• CDFR 4991 - Family Science Internship
• CDFR 4992 - Child Development Internship
• CDFR 4993 - Early Childhood Practicum
• CDFR 5004 - Special Topics in Child Development and Family Relations
• CDFR 5005 - Special Topics in Child Development and Family Relations
• CDFR 5006 - Special Topics in Child Development and Family Relations
• CDFR 5403 - Parent Education
• CDFR 5411 - Counseling Elders and Their Families
• CDFR 5412 - Family Crises and Resources
• CDFR 5420 - Family Intervention Models
• CDFR 5901 - Readings in Aging Studies
• CDFR 5902 - Readings in Aging Studies
• CDFR 5903 - Readings in Aging Studies
• CDFR 5992 - Advanced Preschool Internship
• CDFR 5993 - Advanced Preschool Internship

Child Development and Family Relations Banked Courses

• CDFR 3100 - Resource Management for the Elderly
• CDFR 4998 - Preschool Practicum
• CDFR 4999 - Preschool Practicum
• CDFR 5336 - Methods of Teaching Personal and Family Living
• CDFR 5392 - Economic Problems
• CDFR 5400 - Seminar in Aging Studies
• CDFR 5410 - Gerontology: Developing the Living Environment
Family and Community Services, BS

Freshmen may declare family and community services as their major. The family and community services program is also offered on campus in the 2 + 2 degree completion format. Students must achieve and maintain a cumulative 2.5 GPA to remain in the program. Transfer students must have completed at least 12 s.h. at East Carolina University and a minimum GPA of 2.5 to declare. In addition, students must achieve a minimum grade of C (2.0) in all CDFR courses required for the major. Students earning less than a C (2.0) in a prerequisite major course must repeat the course before the subsequent upper level course may be taken.

Students in Family Community Services may select one of two options concentrations: family studies science or child development/early intervention. The family studies option science concentration is intended for those interested in work with community agencies that provide a broad array of services to families. The child development concentration/early intervention option is intended for those interested in work with community agencies that provide a variety of services to children. (Note: Students who meet course requirements for the certification in family life education must make application to the National Council on Family Relations. The Department of Child Development and Family Relations will verify completion of degree requirements, but meeting other requirements for certification is the responsibility of each student.)

Minimum degree requirement is 426 120 s.h. of credit as follows:

1. Foundations curriculum requirements including those listed below - 42 s.h.

   (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum)

   - COMM 2020 - Fundamentals of Speech Communication or
   - COMM 2410 - Public Speaking or
   - COMM 2420 - Business and Professional Communication or
   - COMM 2020 - Fundamentals of Speech Communication
   - PSYC 1000 - Introductory Psychology

2. Core - 25 28 s.h.

   - CDFR 1103 - Marriage and Family Relations
   - CDFR 2000 - Child Development I: Prenatal Through Early Childhood
   - CDFR 2280 - Introduction to Child, Family, and Community Services
   - CDFR 3002 - Child in the Family
   - CDFR 3290 - Theory and Practice in Family and Community Services
   - CDFR 3560 - Exploring Professions and Practices in Family Science
   - CDFR 4000 - Introduction to Child and Family Research
   - CDFR 4303 - Families and Cultural Diversity
   - CDFR 4366 - Family Life Education
   - CDFR 4380 - Grant Writing, Fundraising, and Leadership Development
3. Choose one of the following concentrations: options: Family Studies or Child Development/Early Intervention

Family Studies Option Science Concentration - 35 s.h.

- **CDFR 2001** - Child Development II: Middle Childhood Through Young Adulthood
- **CDFR 2400** - Introduction to Gerontology
- **CDFR 3215** - The Family As Consumers
- **CDFR 4001** - Community Services Internship
- **CDFR 4006** - Families, Sexuality, and Gender Roles
- **CDFR 4007** - Public Policy and Legal Issues Affecting Families
- **CDFR 4313** - Trends and Issues in Family Studies
- **CDFR 4390** - Family Resource Management
- **CDFR 4991** - Family Science Internship
- 5 s.h. of advisor-approved CDFR electives

Child Development Concentration/Early Intervention Option - 35 s.h.

- **CDFR 2124** - Interaction Techniques for Working with Young Children
- **CDFR 3150** - Introduction to Early Childhood Intervention
- **CDFR 3306** - Guiding Children’s Behavior
- **CDFR 3321** - Infant and Toddler Curriculum
- **CDFR 4002** - Child Development: Early Intervention Internship
- **CDFR 4121** - Social Studies, Math, and Science Curriculum in Early Childhood or
- **CDFR 4122** - Language and Literacy Curriculum in Early Childhood
- **CDFR 4200** - Assessing Development and Learning in the Early Childhood Classroom or
- **CDFR 4201** - Assessment for Intervention
- **CDFR 4300** - Birth through Kindergarten Curriculum Adaptations for Diverse Learners
- **CDFR 4406** - Parent-Professional Collaboration
- **CDFR 4408** - Administration of Programs for Young Children
- **CDFR 4992** - Child Development Internship

4. Minor/Structured Electives - **24** s.h.