REPORT: COMMITTEE ON CURRICULA & COURSES
For consideration by the Faculty Senate at its December 1, 2021 meeting

Full proposal details can be found on the Academic Program Proposal System (APPS) available at:
https://sc.edu/about/offices_and_divisions/provost/planning/academicprograms/proposals/submitted-for-approval.php

Courses requesting approval to be offered via Distributed Learning are denoted with (DL).

Total proposals:

1. 64 - Arts and Sciences
2. 13 – Business
3. 2 – Education
4. 26 – Engineering & Computing
5. 6 – Honors College
6. 3 – Hospitality, Retail & Sport Management
7. 22 – Information & Communications
8. 7 – Music
9. 1 - Nursing
10. 1 – Public Health
11. 2 – Social Work

1. COLLEGE OF ARTS AND SCIENCES

Program Changes:

a. School of Visual Art and Design

Change to Major/Degree Program – Bachelor of Fine Arts, Art Studio, 120 Credit Hours

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a **U.S. history** course, the College of Arts and Sciences history requirement must be fulfilled by a **non-U.S. history** course.
- If the Carolina Core GHS requirement is fulfilled by a **non-U.S. history** course, the College of Arts and Sciences history requirement must be fulfilled by a **U.S. history** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - The College of Arts and Science requires one 3- hour Social Science Course
- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses
    - One course selected from Modern Art History (*must be passed with a grade of C or higher*)
    - Two additional courses selected from Art History, including one at the 500-level selected from Art History (must be passed with a grade of C or higher)

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - The College of Arts and Science requires one 3- hour Social Science Course
- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses
    - One course in Modern Art History from the following list: (*must be passed with a grade of C or higher*)
      -ARTH 335 - History of 20th Century Art
      -ARTH 341 - History of American Art II
      -ARTH 342 - Contemporary American Art
      -ARTH 535 - History of Modern Painting
      -ARTH 536 - History of Modern Sculpture
      -ARTH 537 - Topics in Modern Architecture
      -ARTH 539 - Topics in Modern Art
      -ARTH 545 - Special Topics in Modern Chinese Art
    - Two additional courses selected from Art History, including one at the 500-level selected from Art History (must be passed with a grade of C or higher)

b. Department of Economics

<u>Change to Major/Degree Program – Bachelor of Arts, Economics, 120 Credit Hours</u>

Existing Program Introduction:

Degree Requirements (120 hours)

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	32-44
2. College Requirements	15-18
3. Program Requirements	31-49
4. Major Requirements	24-27

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - The College of Arts and Science requires one 3- hour Social Science Course
- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Existing Program/Supporting Courses Requirements:

3. Program Requirements (31-49 hours)

Supporting Courses (6 hours)

must be passed with a grade of C or higher

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - **ECON 221 or ECON 222 *Must be passed with a C or higher***

Note: ECON 224 may fulfill this requirement for students who completed it prior to majoring in Economics. If a grade of A was earned, then ECON 221 and 222 are not required. If a grade of less than an A was earned, then the student must complete either ECON 221 or 222 for the Supporting Course.

- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Change Program/Supporting Courses Requirements:

3. Program Requirements (31-49 hours)

Supporting Courses (0-3 hours)

must be passed with a grade of C or higher

Course List

Course	Title	Credits
ECON 221	Principles of Microeconomics (*)	3
ECON 222	Principles of Macroeconomics (*)	3
Total Credit Hours		6

Note: Students who took ECON 224 must take either ECON 221 or ECON 222. A student who earned an A in ECON 224 may be exempted.

Course	Title	Credits
ECON 221 OR ECON 222	Principles of Microeconomics Principles of Macroeconomics	3
Total Credit Hours		**3**

Note: Students must complete both ECON 221 and 222. Whichever was not taken to fulfill the College of Arts and Sciences Social Science requirement will fulfill this Supporting Course. Students who took **ECON 224** (earning less than an A) must also take either **ECON 221** or **ECON 222** as the Supporting Course. Students who earned an A in **ECON 224** are exempted from taking either ECON 221 or ECON 222 as a Supporting Course.

Existing Electives:

Electives (10-31 hours)

120 (or 128) degree applicable credits are required to complete any degree at UofSC. After the cognate, minor or second major is complete, any additional credits needed to reach 120 (or 128) total credits can be fulfilled by electives. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Change Electives:

Electives (13-34 hours)

120 (or 128) degree applicable credits are required to complete any degree at UofSC. After the cognate, minor or second major is complete, any additional credits needed to reach 120 (or 128) total credits can be fulfilled by electives. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

c. Department of Economics

Change to Major/Degree Program – Bachelor of Science, Economics, 120 Credit Hours

Existing Program Introduction:

Degree Requirements (120 hours)

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	36-46
2. College Requirements	15-18
3. Program Requirements	29-47
4. Major Requirements	24-27

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

must be passed with a grade of C or higher

- STAT 201*
- CSCE 102*

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - The College of Arts and Science requires one 3- hour Social Science Course
- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Existing Program/Supporting Courses Requirements:

3. Program Requirements (29-47 hours)

Supporting Courses (6 hours)

must be passed with a grade of C or higher

Course List

Course	Title	Credits
ECON 221	Principles of Microeconomics (*)	3
ECON 222	Principles of Macroeconomics (*)	3
Total Credit Hours		6

Note: Students who took ECON 224 must take either ECON 221 or ECON 222. A student who earned an A in ECON 224 may be exempted.

must be passed with a grade of C or higher

- STAT 201*
- CSCE 102*

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - **ECON 221 or ECON 222** ***Must be passed with a C or higher***

Note: ECON 224 may fulfill this requirement for students who completed it prior to majoring in Economics. If a grade of A was earned, then ECON 221 and 222 are not required. If a grade of less than an A was earned, then the student must complete either ECON 221 or 222 for the Supporting Course.

- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Change Program/Supporting Courses Requirements:

3. Program Requirements (29-47 hours)

Supporting Courses (0-3 hours)

must be passed with a grade of C or higher

Course	Title	Credits
ECON 221 OR ECON 222	Principles of Microeconomics Principles of Macroeconomics	3
Total Credit Hours		**3**

Note: Students must complete both ECON 221 and 222. Whichever was not taken to fulfill the College of Arts and Sciences Social Science requirement will fulfill this Supporting Course. Students who took **ECON 224** (earning less than an A) must also take either **ECON 221** or **ECON 222** as the Supporting Course. Students who earned an A

in **ECON 224** are exempted from taking either ECON 221 or ECON 222 as a Supporting Course.

Existing Electives:

Electives (8-29 hours)

120 (or 128) degree applicable credits are required to complete any degree at UofSC. After the cognate, minor or second major is complete, any additional credits needed to reach 120 (or 128) total credits can be fulfilled by electives. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Change Electives:

Electives (11-32 hours)

120 (or 128) degree applicable credits are required to complete any degree at UofSC. After the cognate, minor or second major is complete, any additional credits needed to reach 120 (or 128) total credits can be fulfilled by electives. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

d. Department of Marine Science

Change to Major/Degree Program – Bachelor of Science, Marine Science, 128 Credit Hours

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)
must be passed with a grade of C or higher

Course List

Course	Title	Credits
STAT 515	Statistical Methods I	3
Select one of the following:		3
CSCE 102	General Applications Programming	
a higher level CSCE course		
Total Credit Hours		6

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- Only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

Course	Title	Credits
STAT 515	Statistical Methods I	3
Select one of the following:		3
CSCE 102	General Applications Programming	
a higher level CSCE course		
MSCI 305: **Ocean Data Analysis**		
MSCI 509: MATLAB-Based Data Analysis in Ocean Sciences		
Total Credit Hours		**6**

*Note: Courses used to fulfill the College requirements may not also be used to fulfill other degree requirements.

Existing Major Requirements:

4. Major Requirements (36 hours)

a minimum grade of C is required in all major courses

Major Courses (13 hours)

Change Major Requirements:

4. Major Requirements (36 hours)

a minimum grade of C is required in all major courses

Major Courses (13 hours)

Course List

Course	Title	Credits
MSCI 311	Biology of Marine Organisms	4
MSCI 313	The Chemistry of the Sea	4
MSCI 314	Physical Oceanography	4
MSCI 505	Senior Seminar	1
Required Field Experience [1]		
Total Credit Hours		13

[1] All MSCI majors are required to complete a minimum of 60 hours of marine science field effort. Possibilities include taking the MSCI 460 class, semester or summer internship, REU, semester at sea, faculty-sponsored field research or cruise or field data collection/analysis experience. Students who opt for an experience other than the MSCI 460 class must submit a petition for an alternative field experience to the Undergraduate Director. If the alternative is approved, the student must submit a short (2-3 page minimum) report at the completion of the experience to the Undergraduate Director for approval. Upon approval, the Undergraduate Director will notify the Dean's office of the substitution, and the student's record will be updated to reflect zero credit hours in MSCI 460 for meeting the field effort requirement. If a student takes the MSCI 460 class (2-credit hours), those credits will be counted towards their 23 major elective credit hours.

Major Electives (23 hours)

Students, in consultation with a faculty advisor, must select 23 hours of major electives. Preferred courses available for major credit are listed below; however, any course which is eligible for cognate credit in the College of Arts and Sciences can potentially be a major course with consent of faculty advisor. Hours used to fulfill an optional concentration count toward the fulfillment of the 23 hours of major electives, e.g., students selecting Biological Oceanography would fulfill 13 hours of the 23 hours of required major electives.

Courses Acceptable for Major Credit

Course List

Course	Title	Credits
MSCI courses numbered 300 and above		
MSCI 399	Independent Study [1]	
MSCI 495	Internship in Marine Science [1]	
MSCI 496	Undergraduate Research [1]	
MSCI 497	Undergraduate Research [1]	
MSCI 498	Undergraduate Research [1]	
MSCI 499	Undergraduate Research [1]	
MSCI 505	Senior Seminar [1]	

Course	Title	Credits
MSCI 311	Biology of Marine Organisms	4
MSCI 313	The Chemistry of the Sea	4
MSCI 314	Physical Oceanography	4
MSCI 505	Senior Seminar	1
Required Field Experience [1]		
Total Credit Hours		**13**

[1] All MSCI majors are required to complete a minimum of 60 hours of marine science field effort. Possibilities include taking the **MSCI 460** class, semester or summer internship, REU, semester at sea, faculty-sponsored field research or cruise or field data collection/analysis experience. Students who opt for an experience other than the **MSCI 460** class must submit a petition for an alternative field experience to the Undergraduate Director. If the alternative is approved, the student must submit a short (2-3 page minimum) report at the completion of the experience to the Undergraduate Director for approval. Upon approval, the Undergraduate Director will notify the Dean's office of the substitution, and the student's record will be updated to reflect zero credit hours in **MSCI 460** for meeting the field effort requirement. If a student takes the **MSCI 460** class (2-credit hours), those credits will be counted towards their 23 major elective credit hours.

Major Electives (23 hours)

Students, in consultation with a faculty advisor, must select 23 hours of major electives. Preferred courses available for major credit are listed below; however, any course which is eligible for cognate credit in the College of Arts and Sciences can potentially be a major course with consent of faculty advisor. Hours used to fulfill an optional concentration count toward the fulfillment of the 23 hours of major electives, e.g., students selecting Biological Oceanography would fulfill 13 hours of the 23 hours of required major electives.

Courses Acceptable for Major Credit

Course	Title	Credits
MSCI courses numbered 300 and above		
MSCI 399	Independent Study [1]	
MSCI 495	Internship in Marine Science [1]	
MSCI 496	Undergraduate Research [1]	
MSCI 497	Undergraduate Research [1]	
MSCI 498	Undergraduate Research [1]	
MSCI 499	Undergraduate Research [1]	
MSCI 505	Senior Seminar [1]	
MSCI/GEOG 590	Beach-Dune Interactions	3

BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory	4
BIOL 302 & 302L	Cell and Molecular Biology and Cell and Molecular Biology Laboratory	4
BIOL 303	Fundamental Genetics	3
BIOL 450	Principles of Biological Oceanography	3
BIOL 460 & 460L	Advanced Human Physiology and Advanced Human Physiology Laboratory	4
BIOL 497	Undergraduate Seminar in Biological Sciences	1
BIOL 505 & 505L	Developmental Biology and Developmental Biology Laboratory I	4
BIOL 534 & 534L	Animal Behavior and Animal Behavior Laboratory	4
BIOL 541 & 541L	Biochemistry and Biochemistry Laboratory	4
BIOL 543 & 543L	Comparative Physiology and Comparative Physiology Laboratory	4
BIOL 549	Plant Physiology	4
BIOL 550 & 550L	Bacteriology and Bacteriology Laboratory	4
BIOL 570 & 570L	Principles of Ecology and Principles of Ecology Laboratory	4
BIOL 599	Topics in Biology [1]	1-3
BIOL 640	Microbial Ecology	3
BIOL 652	Evolutionary Biology	3
BIOL 654	Speciation	3
BIOL 670	Plant Ecology	3
BIOL 690	Ultramicroscopy	3
CHEM 321 & 321L	Quantitative Analysis and Quantitative Analysis Laboratory	4
CHEM 331L	Essentials of Organic Chemistry Laboratory I	1
CHEM 332L	Essentials of Organic Chemistry Laboratory II	1
CHEM 333 & 333L	Organic Chemistry I and Comprehensive Organic Chemistry Laboratory I	5
CHEM 334 & 334L	Organic Chemistry II and Comprehensive Organic Chemistry Laboratory II	5

BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory	4
BIOL 302 & 302L	Cell and Molecular Biology and Cell and Molecular Biology Laboratory	4
BIOL 303	Fundamental Genetics	3
BIOL 450	Principles of Biological Oceanography	3
BIOL 460 & 460L	Advanced Human Physiology and Advanced Human Physiology Laboratory	4
BIOL 462 & 462l	Advanced Microbiology	4
BIOL 497	Undergraduate Seminar in Biological Sciences	1
BIOL 505 & 505L	Developmental Biology and Developmental Biology Laboratory I	4
BIOL 534 & 534L	Animal Behavior and Animal Behavior Laboratory	4
MSCI/BIOL 537	Aquaculture	3
BIOL 541 & 541L	Biochemistry and Biochemistry Laboratory	4
BIOL 543 & 543L	Comparative Physiology and Comparative Physiology Laboratory	4
BIOL 545	**Biochemistry/Molecular Biology I**	3
BIOL 549	Plant Physiology	4
BIOL 550 & 550L	Bacteriology and Bacteriology Laboratory	4
BIOL/MSCI 552	Population Genetics	
BIOL 570 & 570L	Principles of Ecology and Principles of Ecology Laboratory	4
BIOL 599	Topics in Biology [1]	1-3
BIOL 630	Biology of Birds	3
BIOL 640	Microbial Ecology	3
BIOL 652	Evolutionary Biology	3
BIOL 654	Speciation	3
BIOL 670	Plant Ecology	3
BIOL 690	Ultramicroscopy	3
CHEM 321 & 321L	Quantitative Analysis and Quantitative Analysis Laboratory	4
CHEM 331L	Essentials of Organic Chemistry Laboratory I	1
CHEM 332L	Essentials of Organic Chemistry Laboratory II	1
CHEM 333 & 333L	Organic Chemistry I and Comprehensive Organic Chemistry Laboratory I	5

CHEM 511	Inorganic Chemistry	3
CHEM 541 & 541L	Physical Chemistry and Physical Chemistry Laboratory [1]	5
CHEM 542 & 542L	Physical Chemistry and Physical Chemistry Laboratory	5
CHEM 621	Instrumental Analysis	3
CSCE 561	Numerical Analysis	3
ECON 548	Environmental Economics	3
ENVR 548	Environmental Economics	3
ENVR 571	Conservation Biology	3
ENVR 572	Freshwater Ecology	3
ENVR 590	[1]	3
GEOG 341	Cartography	3
GEOG 345	Interpretation of Aerial Photographs	3
GEOG 363	Geographic Information Systems	3
GEOG 365	Hurricanes and Tropical Climatology	3
GEOG 510	Special Topics in Geographic Research	3
GEOG 516	Coastal Zone Management	3
GEOG 541	Advanced Cartography	3
GEOG 545	Synoptic Meteorology	4
GEOG 546	Applied Climatology	4
GEOG 551	Principles of Remote Sensing	3
GEOG 554	Spatial Programming	3
GEOG 563	Advanced Geographic Information Systems	3
GEOG 564	GIS-Based Modeling	3
GEOG 575	Digital Techniques and Applications in Remote Sensing	3
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4

CHEM 334 & 334L	Organic Chemistry II and Comprehensive Organic Chemistry Laboratory II	5
CHEM 511	Inorganic Chemistry	3
CHEM 541 & 541L	Physical Chemistry and Physical Chemistry Laboratory [1]	5
CHEM 542 & 542L	Physical Chemistry and Physical Chemistry Laboratory	5
CHEM 621	Instrumental Analysis	3
CSCE 561	Numerical Analysis	3
ECIV 360	Fluid Mechanics	3
ECON 548	Environmental Economics	3
ENHS 665	Biofilms in Environmental Health and Disease	3
ENVR 231	Introduction to Sustainability Management and Leadership	3-4
ENVR 548	Environmental Economics	3
ENVR 571	Conservation Biology	3
ENVR 572	Freshwater Ecology	3
ENVR 480	Environmental Issues Seminar	3
GEOG 341	Cartography	3
GEOG 345	Interpretation of Aerial Photographs	3
GEOG 363	Geographic Information Systems	3
GEOG 365	Hurricanes and Tropical Climatology	3
GEOG 510	Special Topics in Geographic Research	3
GEOG 516	Coastal Zone Management	3
GEOG 541	Advanced Cartography	3
GEOG 545	Synoptic Meteorology	4
GEOG 546	Applied Climatology	4
GEOG 551	Principles of Remote Sensing	3
GEOG 554	Spatial Programming	3
GEOG 563	Advanced Geographic Information Systems	3
GEOG 564	GIS-Based Modeling	3
GEOG 575	Digital Techniques and Applications in Remote Sensing	3
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 371	A View of the River	3

GEOL 335	Processes of Global Environmental Change	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 371	A View of the River	3
GEOL 500	Field Geology	4-6
GEOL 503	Regional Stratigraphy and Biostratigraphy of North America	3
GEOL 516	Sedimentology	4
GEOL 541	Earth Science for Teachers II	3
GEOL 545	Geological Oceanography	3
GEOL 546	Marine Geophysics	3
GEOL 555	Elementary Seismology	3
GEOL 570	Environmental Hydrogeology	3
JOUR 507	Communicating Science, Health and the Environment	3
MATH 242	Elementary Differential Equations	3
MATH 344	Applied Linear Algebra	3
MATH 344 L	Applied Linear Algebra Lab	1
MATH 521	Boundary Value Problems and Partial Differential Equations	3
MATH 526	Numerical Linear Algebra	4
MATH 527	Numerical Analysis	3
MATH 544	Linear Algebra	3
NAVY 301 & 301L	Navigation/Naval Operations I and Navigation/Naval Operations Lab I	4
NAVY 302 & 302L	Navigation/Naval Operations II and Navigation/Naval Operations II Lab	4
POLI 370	Introduction to Public Administration	3
POLI 399 A	Independent Study in Political Science	1-6
POLI 399 B	Independent Study in International Studies	1-6
POLI 420	International Law	3
POLI 431	Science, Technology, and Public Policy	3
POLI 477	Green Politics	3
SCHC 390-SCHC 398 [1]		
SCHC 499	HNRS: Senior Thesis/Project [1]	1-15
SOCY 310	Social Demography	3
SOCY 315	Global Population Issues	3
STAT 506	Introduction to Experimental Design	3
STAT 511	Probability	3

GEOL 500	Field Geology	4-6
GEOL 503	Regional Stratigraphy and Biostratigraphy of North America	3
GEOL 516	Sedimentology	4
GEOL 541	Earth Science for Teachers II	3
GEOL 545	Geological Oceanography	3
GEOL 546	Marine Geophysics	3
GEOL 555	Elementary Seismology	3
GEOL 570	Environmental Hydrogeology	3
JOUR 507	Communicating Science, Health and the Environment	3
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
MATH 344	Applied Linear Algebra	3
MATH 344 L	Applied Linear Algebra Lab	1
MATH 520	Ordinary Differential Equations	3
MATH 521	Boundary Value Problems and Partial Differential Equations	3
MATH 526	Numerical Linear Algebra	4
MATH 527	Numerical Analysis	3
MATH 544	Linear Algebra	3
NAVY 301 & 301L	Navigation/Naval Operations I and Navigation/Naval Operations Lab I	4
NAVY 302 & 302L	Navigation/Naval Operations II and Navigation/Naval Operations II Lab	4
PHYS 311	Introduction to Applied Numerical Methods	3
PHYS 514	Optics, Theory, and Applications	4
PHYS 515	Mathematical Physics I	3
PHYS 516	Mathematical Physics II	3
POLI 370	Introduction to Public Administration	3
POLI 399A	Independent Study in Political Science	1-6
POLI 399B	Independent Study in International Studies	1-6
POLI 420	International Law	3
POLI 431	Science, Technology, and Public Policy	3
POLI 477	Green Politics	3
SCHC 390-SCHC 398 [1]		
SCHC 499	HNRS: Senior Thesis/Project [1]	1-15
SOCY 310	Social Demography	3
SOCY 315	Global Population Issues	3
STAT 506	Introduction to Experimental Design	3

STAT 512	Mathematical Statistics	3
STAT 513	Theory of Statistical Inference	3
STAT 516	Statistical Methods II	3
STAT 518	Nonparametric Statistical Methods	3

[1] A maximum of 10 hours of independent study, seminar, and undergraduate research courses may count in the 23 hours of major electives required for the Marine Science major.

Note: Credit for a degree will not be given for both CHEM 340 and CHEM 541.

Concentrations (12-15 hours)

Students may elect to have a Concentration specified directly on their academic transcript upon graduation from the Marine Science Program. In order to earn a Concentration certification, students must take the following courses, with an additional course(s) to be decided upon by the student and his or her Faculty Advisor. These courses may also be included in the 36 major credit hours required for graduation.

Biological Oceanography (13 hours minimum)

Course List

Course	Title	Credits
BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory (Lab not required)	4
BIOL 302	Cell and Molecular Biology (Lab not required) [1]	3
or BIOL 302L	Cell and Molecular Biology Laboratory	
or BIOL 303	Fundamental Genetics	
Select two additional courses (six hours minimum) from the following list of marine biology, ecology, biology courses or similar courses as approved by advisor:		6
MSCI/BIOL 450	Principles of Biological Oceanography	
MSCI 503/BIOL 502	Environmental Microbiology	
MSCI/BIOL 510	Invertebrate Zoology	
MSCI/BIOL 525	Marine Plants	
MSCI/BIOL 535	Fishery Management	
MSCI/BIOL 536	Ichthyology	
MSCI/BIOL 537	Aquaculture	
MSCI/BIOL 538	Behavior of Marine Organisms	

STAT 511	Probability	3
STAT 512	Mathematical Statistics	3
STAT 513	Theory of Statistical Inference	3
STAT 516	Statistical Methods II	3
STAT 518	Nonparametric Statistical Methods	3

[1] A maximum of 10 hours of independent study, seminar, and undergraduate research courses may count in the 23 hours of major electives required for the Marine Science major.

Note: Credit for a degree will not be given for both **CHEM 340** and **CHEM 541**.

Concentrations (12-15 hours)

Students may elect to have a Concentration specified directly on their academic transcript upon graduation from the Marine Science Program. In order to earn a Concentration certification, students must take the following courses, with an additional course(s) to be decided upon by the student and his or her Faculty Advisor. These courses may also be included in the 36 major credit hours required for graduation.

Biological Oceanography (13 hours minimum)

Course	Title	Credits
BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory (Lab not required)	4
BIOL 302	Cell and Molecular Biology (Lab not required) [1]	3
or **BIOL 302L**	Cell and Molecular Biology Laboratory	
or **BIOL 303**	Fundamental Genetics	
Select two additional courses (six hours minimum) from the following list of marine biology, ecology, biology courses or similar courses as approved by advisor:		6
MSCI 375	The Deep Sea	
MSCI/BIOL 450	Principles of Biological Oceanography	
MSCI 503/BIOL 502	Environmental Microbiology	
MSCI/BIOL 510	Invertebrate Zoology	
MSCI/BIOL 525	Marine Plants	
MSCI/BIOL 535	Fishery Management	
MSCI/BIOL 536	Ichthyology	
MSCI/BIOL 537	Aquaculture	
MSCI/BIOL 538	Behavior of Marine Organisms	

MSCI/BIOL 552	Population Genetics
MSCI/BIOL 574	Marine Conservation Biology
MSCI/BIOL 575	Marine Ecology
MSCI/BIOL 576	Marine Fisheries Ecology
MSCI/BIOL 577	Ecology of Coral Reefs
MSCI/BIOL 627	Marine Phytoplankton
MSCI 496	Undergraduate Research (if biology oriented)
MSCI 497	Undergraduate Research (if biology oriented)
MSCI 498	Undergraduate Research (if biology oriented)
MSCI 499	Undergraduate Research (if biology oriented)
MSCI 599	Topics in Marine Science (if biology oriented)
MSCI 566	Ecosystem Analysis
MSCI 578	Physiological and Pollution Ecology of Marine Organisms
BIOL 302	Cell and Molecular Biology [2]
or BIOL 303	Fundamental Genetics
BIOL 460	Advanced Human Physiology (Lab not required)
or BIOL 460L	Advanced Human Physiology Laboratory
BIOL 505	Developmental Biology (Lab not required)
or BIOL 505L	Developmental Biology Laboratory I
BIOL 534	Animal Behavior (Lab not required)
or BIOL 534L	Animal Behavior Laboratory
BIOL 541	Biochemistry
BIOL 543	Comparative Physiology (Lab not required)
or BIOL 543L	Comparative Physiology Laboratory
BIOL 549	Plant Physiology
BIOL 550	Bacteriology (Lab not required)
or BIOL 550L	Bacteriology Laboratory
BIOL 570	Principles of Ecology (Lab not required)
or BIOL 570L	Principles of Ecology Laboratory
BIOL 640	Microbial Ecology
BIOL 643	

MSCI/BIOL 552	Population Genetics	
MSCI/BIOL 574	Marine Conservation Biology	
MSCI/BIOL 575	Marine Ecology	
MSCI/BIOL 576	Marine Fisheries Ecology	
MSCI/BIOL 577	Ecology of Coral Reefs	
MSCI/BIOL 627	Marine Phytoplankton	
MSCI 496	Undergraduate Research (if biology oriented)	
MSCI 497	Undergraduate Research (if biology oriented)	
MSCI 498	Undergraduate Research (if biology oriented)	
MSCI 499	Undergraduate Research (if biology oriented)	
MSCI 599	Topics in Marine Science (if biology oriented)	
MSCI 566	Ecosystem Analysis	
MSCI 578	Physiological and Pollution Ecology of Marine Organisms	
BIOL 302	Cell and Molecular Biology [2]	
or **BIOL 303**	Fundamental Genetics	
BIOL 460	Advanced Human Physiology (Lab not required)	
or **BIOL 460L**	Advanced Human Physiology Laboratory	
BIOL 505	Developmental Biology (Lab not required)	
or **BIOL 505L**	Developmental Biology Laboratory I	
BIOL 534	Animal Behavior (Lab not required)	
or **BIOL 534L**	Animal Behavior Laboratory	
BIOL 541	Biochemistry	
BIOL 543	Comparative Physiology (Lab not required)	
or **BIOL 543L**	Comparative Physiology Laboratory	
BIOL 549	Plant Physiology	
BIOL 550	Bacteriology (Lab not required)	
or **BIOL 550L**	Bacteriology Laboratory	
BIOL 570	Principles of Ecology (Lab not required)	
or **BIOL 570L**	Principles of Ecology Laboratory	
BIOL 640	Microbial Ecology	
BIOL 652	Evolutionary Biology	
BIOL 670	Plant Ecology	
BIOL 690	Ultramicroscopy	
Total Credit Hours		**13**

BIOL 652	Evolutionary Biology	
BIOL 670	Plant Ecology	
BIOL 690	Ultramicroscopy	
Total Credit Hours		13

[1] CHEM 333 is a prerequisite for BIOL 302 and is recommended for those intending to complete postgraduate work in this area of emphasis.

[2] BIOL 302L is optional.

Chemical Oceanography (13 hours)

Course List

Course	Title	Credits
CHEM 321	Quantitative Analysis	3
CHEM 321L	Quantitative Analysis Laboratory	1
CHEM 333	Organic Chemistry I (Lab not required)	3
or CHEM 333L	Comprehensive Organic Chemistry Laboratory I	
CHEM 334	Organic Chemistry II (Lab not required)	3
or CHEM 334L	Comprehensive Organic Chemistry Laboratory II	
One more Chemical Oceanography course at the 400-level or above		3
Total Credit Hours		13

Coastal Resource Management & Marine Policy (12 hours)

Course List

Course	Title	Credits
MSCI 390	Policy and Marine Science	3
GEOG 516	Coastal Zone Management	3
ENVR 548	Environmental Economics [1]	3
One more Coastal Resource Management & Marine Policy course at the 400-level or above		3
Total Credit Hours		12

[1] ENVR 548 requires a prerequisite of ECON 221 and ECON 222 or ECON 224.

Geological Oceanography (15 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4

[1] **CHEM 333** is a prerequisite for **BIOL 302** and is recommended for those intending to complete postgraduate work in this area of emphasis.

[2] **BIOL 302L** is optional.

Chemical Oceanography (13 hours)

Course	Title	Credits
CHEM 321	Quantitative Analysis	3
CHEM 321L	Quantitative Analysis Laboratory	1
CHEM 333	Organic Chemistry I (Lab not required)	3
or **CHEM 333L**	Comprehensive Organic Chemistry Laboratory I	
CHEM 334	Organic Chemistry II (Lab not required)	3
or **CHEM 334L**	Comprehensive Organic Chemistry Laboratory II	
One more Chemical Oceanography course at the 400-level or above		3
Total Credit Hours		**13**

Coastal Resource Management & Marine Policy (12 hours)

Course	Title	Credits
MSCI 390	Policy and Marine Science	3
GEOG 516	Coastal Zone Management	3
ENVR 548	Environmental Economics [1]	3
One more Coastal Resource Management & Marine Policy course at the 400-level or above		3
Total Credit Hours		**12**

[1] **ENVR 548** requires a prerequisite of **ECON 221** and **ECON 222** or **ECON 224**.

Geological Oceanography (15 hours)

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4
or **GEOL 335**	Processes of Global Environmental Change	
GEOL 315	Surface and Near Surface Processes	4
or **GEOL 325**	Stratigraphy and Sedimentary Basins	
One more Geological Oceanography course at the 300-level or above		3
Total Credit Hours		**15**

Physical Oceanography (12 hours)

or GEOL 335	Processes of Global Environmental Change	
GEOL 315	Surface and Near Surface Processes	4
or GEOL 325	Stratigraphy and Sedimentary Basins	
One more Geological Oceanography course at the 300-level or above		3
Total Credit Hours		15

Physical Oceanography (12 hours)

Course List

Course	Title	Credits
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
Select two of the following: [1]		6
MSCI 557	Coastal Processes	
MSCI 579	Air-Sea Interaction	
MSCI 581	Estuarine Oceanography	
MSCI 582	Marine Hydrodynamics	
MSCI 590	Beach-Dune Interactions	
Total Credit Hours		12

[1] Courses are taught alternate years. Please check teaching schedule.

[2] Students in the Physical Oceanography concentration must take PHYS 211 & PHYS 211L and PHYS 212 & PHYS 212L.

Course	Title	Credits
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
Select two of the following: [1]		6
MSCI 509	MATLAB-Based Data Analysis in Ocean Sciences	
MSCI 557	Coastal Processes	
MSCI 579	Air-Sea Interaction	
MSCI/GEOL 580	Satellite Oceanography	
MSCI 581	Estuarine Oceanography	
MSCI 582	Marine Hydrodynamics	
Total Credit Hours		**12**

[1] Courses are taught alternate years. Please check teaching schedule.

[2] Students in the Physical Oceanography concentration are recommended to take PHYS 211 & 211L and PHYS 212 & 212L

e. Department of Physics & Astronomy

Change to Major/Degree Program – Bachelor of Science, Physics, 120 Credit Hours

Existing Program Introduction:

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	33-45
2. College Requirements	16-19
3. Program Requirements	24-39
4. Major Requirements	32-54

Existing Carolina Core Requirements:

☑ SCI

- CHEM 111 & CHEM 111L
- PHYS 211

Change Optional Program Introduction:

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	34-46
2. College Requirements	16-19
3. Program Requirements	23-38
4. Major Requirements	32-54

Change Carolina Core Requirements:

☑ SCI

- CHEM 111 & CHEM 111L
- CHEM 112 & CHEM 112L

Existing Program/Supporting Courses Requirements:

3. Program Requirements (24-39 hours)

Supporting Courses (24 hours)

must be passed with a grade of C or higher

Course List

Course	Title	Credits
CHEM 112 & 112L	General Chemistry II and General Chemistry II Lab	4
PHYS 199	Measurement and Analysis in Physics	2
PHYS 212	Essentials of Physics II	3
PHYS 306	Principles of Physics III	3
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
or MATH 520	Ordinary Differential Equations	
Select six hours of the following:		6
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
MATH 500-level and above (selected with advisor)		
Total Credit Hours		24

Cognate

The required mathematics courses satisfy the cognate requirement.

Electives (0-15 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Change Program/Supporting Courses Requirements:

3. Program Requirements (23-38 hours)

Supporting Courses (23 hours)

must be passed with a grade of C or higher

Course List

Course	Title	Credits
PHYS 199	Measurement and Analysis in Physics	2
PHYS 211	Essentials of Physics I	3
PHYS 212	Essentials of Physics II	3
PHYS 306	Principles of Physics III	3
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
or MATH 520	Ordinary Differential Equations	
Select six hours of the following:		6
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
MATH 500-level and above (selected with advisor)		
Total Credit Hours		23

Cognate

The required mathematics courses satisfy the cognate requirement.

Electives (0-15 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Existing Major Requirements:

4. Major Requirements (32-54 hours)

A minimum grade of C is required in all major courses.

Major Courses (32 hours)

Course List

Course	Title	Credits
PHYS 307	Introduction to Modern Physics	3
Select one of the following:		4
PHYS 308 & 309	Classic Experiments in Physics I and Classic Experiments in Physics II	

Change Major Requirements:

4. Major Requirements (32-54 hours)

A minimum grade of C is required in all major courses.

Major Courses (32 hours)

Course	Title	Credits
PHYS 307	Introduction to Modern Physics	3
PHYS 310	Intermediate Experimental Physics	4
PHYS 501	Quantum Physics I	3
PHYS 502	Quantum Physics II	3
PHYS 503	Mechanics	4

PHYS 310	Intermediate Experimental Physics	
PHYS 501	Quantum Physics I	3
PHYS 502	Quantum Physics II	3
PHYS 503	Mechanics	4
PHYS 504	Electromagnetic Theory	4
PHYS 506	Thermal Physics and Statistical Mechanics	3
PHYS 541	Advanced Experimental Physics I	4
Select one of the following Experimental Physics courses:		4
PHYS 509	Solid State Electronics	
PHYS 510	Digital Electronics	
PHYS 511	Nuclear Physics	
PHYS 512	Solid State Physics	
PHYS 514	Optics, Theory, and Applications	
PHYS 521	Biophysics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		32

Engineering Physics Concentration (52-54 hours) *optional*

In order to select the Engineering Physics Concentration a student must have achieved a minimum overall GPA of 2.5 with at least 15 hours taken at USC-Columbia. In addition, the student must have passed MATH 141 with a grade of “C” or higher. (An AP or IB exam score that provides credit for MATH 141 also satisfies this requirement.)

Select either the Electrical or Mechanical Option.

Electrical Option (52-53 hours)

Course List

Course	Title	Credits
CSCE 211	Digital Logic Design	3
ELCT 102	Electrical Science	3
ELCT 201	Introductory Electrical Engineering Laboratory	3
ELCT 221	Circuits	3
ELCT 222	Signals and Systems	3
ELCT 301	Electronics Laboratory	3
ELCT 371	Electronics	3
PHYS 307	Introduction to Modern Physics	3
Select one of the following:		4
PHYS 308 & 309	Classic Experiments in Physics I and Classic Experiments in Physics II	
PHYS 310	Intermediate Experimental Physics	
PHYS 504	Electromagnetic Theory	4
PHYS 506	Thermal Physics and Statistical Mechanics	3
PHYS 541	Advanced Experimental Physics I	4
Select one of the following Experimental Physics courses:		4
PHYS 511	Nuclear Physics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		**32**
Course List		

Engineering Physics Concentration (52-54 hours) *optional*

In order to select the Engineering Physics Concentration a student must have achieved a minimum overall GPA of 2.5 with at least 15 hours taken at USC-Columbia. In addition, the student must have passed **MATH 141** with a grade of “C” or higher. (An AP or IB exam score that provides credit for **MATH 141** also satisfies this requirement.)

Select either the Electrical or Mechanical Option.

Electrical Option (52-53 hours)

Course	Title	Credits
CSCE 211	Digital Logic Design	3
ELCT 102	Electrical Science	3
ELCT 201	Introductory Electrical Engineering Laboratory	3
ELCT 221	Circuits	3
ELCT 222	Signals and Systems	3
ELCT 301	Electronics Laboratory	3
ELCT 371	Electronics	3
PHYS 307	Introduction to Modern Physics	3
PHYS 310	Intermediate Experimental Physics	4
PHYS 311	Introduction to Applied Numerical Methods	3
PHYS 501	Quantum Physics I	3
PHYS 503	Mechanics	4
PHYS 504	Electromagnetic Theory	4
PHYS 506	Thermal Physics and Statistical Mechanics	3
PHYS 541	Advanced Experimental Physics I	4
Physics Elective		
Select one of the following:		3-4
PHYS 502	Quantum Physics II	
PHYS 511	Nuclear Physics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		**52-53**
Course List		

PHYS 311	Introduction to Applied Numerical Methods	3
PHYS 501	Quantum Physics I	3
PHYS 503	Mechanics	4
PHYS 504	Electromagnetic Theory	4
PHYS 506	Thermal Physics and Statistical Mechanics	3
PHYS 541	Advanced Experimental Physics I	4
Physics Elective		
Select one of the following:		3-4
PHYS 502	Quantum Physics II	
PHYS 509	Solid State Electronics	
PHYS 511	Nuclear Physics	
PHYS 512	Solid State Physics	
PHYS 514	Optics, Theory, and Applications	
PHYS 521	Biophysics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		52-53

Mechanical Option (52-54 hours)

Course List

Course	Title	Credits
EMCH 200	Statics	3
EMCH 260	Solid Mechanics	3
EMCH 290	Thermodynamics	3
Select four courses (at least 12 hours) from EMCH 300 and above		12
PHYS 307	Introduction to Modern Physics	3
Select one of the following:		4
PHYS 308 & 309	Classic Experiments in Physics I and Classic Experiments in Physics II	
PHYS 310	Intermediate Experimental Physics	
PHYS 311	Introduction to Applied Numerical Methods	3
PHYS 501	Quantum Physics I	3
PHYS 503	Mechanics	4
PHYS 504	Electromagnetic Theory	4
PHYS 541	Advanced Experimental Physics I	4
Select two of the following Physics electives:		6-8
PHYS 502	Quantum Physics II	
PHYS 506	Thermal Physics and Statistical Mechanics	

Mechanical Option (52-54 hours)

Course	Title	Credits
EMCH 200	Statics	3
EMCH 260	Solid Mechanics	3
EMCH 290	Thermodynamics	3
Select four courses (at least 12 hours) from EMCH 300 and above		12
PHYS 307	Introduction to Modern Physics	3
PHYS 310	Intermediate Experimental Physics	4
PHYS 311	Introduction to Applied Numerical Methods	3
PHYS 501	Quantum Physics I	3
PHYS 503	Mechanics	4
PHYS 504	Electromagnetic Theory	4
PHYS 541	Advanced Experimental Physics I	4
Select two of the following Physics electives:		6-8
PHYS 502	Quantum Physics II	
PHYS 506	Thermal Physics and Statistical Mechanics	
PHYS 511	Nuclear Physics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		**52-54**
Course List		

PHYS 509	Solid State Electronics	
PHYS 511	Nuclear Physics	
PHYS 512	Solid State Physics	
PHYS 514	Optics, Theory, and Applications	
PHYS 521	Biophysics	
PHYS 542	Advanced Experimental Physics II	
Total Credit Hours		52-54

f. Department of Religious Studies

Change to Minor – Religious Studies Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
Required Course		
Select one of the following:		3
RELG 101	Exploring Religion	
RELG 120	Comparative Religion	
Electives		
Select one RELG course at the 200-level		3
Select four RELG courses from the 300-level; one course at the 400-level may be substituted for one at the 300-level		12
Total Credit Hours		18

Change Cognate and Minor Requirements:

Minor Requirements (18 hours)

The Department of Religious Studies offers a flexible minor that requires 18 credit hours in Religious Studies courses. Students may not apply more than 3 credit hours from the 100-level and not more than 6 credit hours from the 200-level.

g. Department of Religious Studies

Change to Major/Degree Program – Bachelor of Arts, Religious Studies, 120 Credit Hours

Existing Carolina Core Requirements:

☑ GSS

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- RELG 101* - *must be passed with a grade of C or higher*
  or
- any CC-GSS course

[[the asterisk by RELG101 refers to this stipulation in the College section, "NOTE: 3 hours of Fine Arts or

Change Carolina Core Requirements:

☑ GSS

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- RELG 101
  or
- any CC-GSS course

Humanities must be fulfilled by RELG 120* - with a minimum grade of C - if RELG 101* was not taken to fulfill the Carolina Core-GSS requirement"]]

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a *U.S. history* course, the College of Arts and Sciences history requirement must be fulfilled by a *non-U.S. history* course.
- If the Carolina Core GHS requirement is fulfilled by a *non-U.S. history* course, the College of Arts and Sciences history requirement must be fulfilled by a *U.S. history* course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- **Social Science (3 hours)**
  - The College of Arts and Science requires one 3- hour Social Science Course
- **Fine Arts/Humanities (9 Hours)**
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Note: 3 hours of Fine Arts or Humanities must be fulfilled by RELG 120* - with a minimum grade of C - if RELG 101* was not taken to fulfill the Carolina Core-GSS requirement

Existing Major Requirements:

4. Major Requirements (24 hours)

A minimum grade of C is required in all major courses.

Major Courses (3 hours)

Course List

Course	Title	Credits
RELG 390	Theories of Religion	3

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a *U.S. history* course, the College of Arts and Sciences history requirement must be fulfilled by a *non-U.S. history* course.
- If the Carolina Core GHS requirement is fulfilled by a *non-U.S. history* course, the College of Arts and Sciences history requirement must be fulfilled by a *U.S. history* course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (12 hours)

- Social Science (3 hours)
  - The College of Arts and Science requires one 3- hour Social Science Course
- Fine Arts/Humanities (9 Hours)
  - A Bachelor of Arts from the College of Arts and Sciences requires three 3-hour Fine Arts/Humanities Courses

Change Major Requirements:

4. Major Requirements (24 hours)

A minimum grade of C is required in all major courses.

Major Courses (6 hours)

Course	Title	Credits
RELG 390	Theories of Religion	3
RELG 488	Perspective in Religious Studies	3

RELG 488	Perspective in Religious Studies	3
Total Credit Hours		6

Major Electives (18 hours)

- Select 2 introductory 200-level courses
- Select 2 intermediate 300-level courses
- Select 2 advanced 400-level courses; students may substitute 400-level courses for 300-level requirements with advisor approval

Intensive Major (30 hours)

- Complete all requirements for the General Major.
- One additional RELG course a 300-level or above or, with advisor approval, a course that relates directly to the research path selected from anthropology, classics, history, languages, or philosophy.
- RELG 498

B.A. with Distinction (30 hours)

Students who fulfill the requirements for the Intensive Major and earn a minimum major GPA of 3.75 and a cumulative GPA of 3.50 will be awarded the degree "With Distinction in Religious Studies" upon graduation.

Total Credit Hours	6
Course List	

Major Electives (18 hours)

The major in Religious Studies requires 18 elective credit hours be completed in Religious Studies courses. Students may not apply more than 3 credit hours from the 100-level and not more than 6 credit hours from the 200-level.

Intensive Major (30 hours)

- Complete all requirements for the General Major.
- One additional RELG course at the 300- or 400-level or, with advisor approval, a course outside RELG that relates directly to the research path.
- RELG 498

B.A. with Distinction (30 hours)

Students who fulfill the requirements for the Intensive Major and earn a minimum major GPA of 3.75 and a cumulative GPA of 3.50 will be awarded the degree "With Distinction in Religious Studies" upon graduation.

h. School of the Earth, Ocean and Environment

Change to Major/Degree Program – Bachelor of Science, Geological Sciences, 120 Credit Hours

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

- STAT 201 **or** STAT 509 **or** STAT 515
- CSCE 102 (or equivalent) or higher

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- Only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

Course	Title	Credits
STAT 515	Statistical Methods I	3
Select one of the following:		3
CSCE 102	General Applications Programming	
a higher level CSCE course		
MSCI 305: Ocean Data Analysis		
MSCI 509: MATLAB-Based Data Analysis in Ocean Sciences		
Total Credit Hours		**6**

*Note: Courses used to fulfill the College requirements may not also be used to fulfill other degree requirements.

Existing Major Requirements:

Change Major Requirements:

4. Major Requirements (27-43 hours)

a minimum grade of C is required in all major courses

Choose one of the following concentrations:

General Geological Sciences Major (28-30 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology	4-6
Select two of the following:		8
GEOL 305	Earth Systems through Time	
GEOL 315	Surface and Near Surface Processes	
GEOL 335	Processes of Global Environmental Change	
Total Credit Hours		28-30

General Geologic Sciences Major with Environmental Geosciences Concentration (27-30 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology	4-6
Select one of the following:		3-4
GEOL 305	Earth Systems through Time	
GEOL 371	A View of the River	
GEOL 548	Environmental Geophysics	
Total Credit Hours		27-30

General Geological Sciences Major with Geophysics Concentration (40-43 hours)

Students complete the requirements for the General Geological Sciences Major (28-30 hours) with the MATH

4. Major Requirements (27-43 hours)

a minimum grade of C is required in all major courses

Major Courses (28-30 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology	4-6
Select two of the following:		8
GEOL 305	Earth Systems through Time	
GEOL 315	Surface and Near Surface Processes	
GEOL 335	Processes of Global Environmental Change	
Total Credit Hours		28-30

Concentrations (27-43 hours) *optional*

As an alternative to the general Geological Sciences major, students may choose one of the following concentrations:

General Geologic Sciences Major with Environmental Geosciences Concentration (27-30 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology	4-6
Select one of the following:		3-4
GEOL 305	Earth Systems through Time	
GEOL 371	A View of the River	
GEOL 548	Environmental Geophysics	

141 and 142 Carolina Core option, and also complete an additional 12-13 credit hours from the courses listed here:

Course List

Course	Title	Credits
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
Select two of the following:		6-7
GEOL 501	Principles of Geomorphology	
GEOL 520	Isotope Geology and Geochronology	
GEOL 531	Plate Tectonics	
GEOL 546	Marine Geophysics	
GEOL 548	Environmental Geophysics	
GEOL 570	Environmental Hydrogeology	
GEOL 575	Numerical Modeling for Earth Science Applications	

Intensive Geological Sciences Major (41-43 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology (senior capstone experience)	4-6
Select 9 credits of GEOL courses numbered 399 or higher		9
Total Credit Hours		41-43

Degree with Distinction in Geological Sciences

Available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Students who successfully fulfill all of these requirements will be awarded their degree with "Distinction in Geological Sciences" upon graduation.

Total Credit Hours	27-30

General Geological Sciences Major with Geophysics Concentration (40-43 hours)

Students complete the requirements for the General Geological Sciences Major (28-30 hours) with the MATH 141 and 142 Carolina Core option, and also complete an additional 12-13 credit hours from the courses listed here:

Course List

Course	Title	Credits
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
Select two of the following:		6-7
GEOL 501	Principles of Geomorphology	
GEOL 520	Isotope Geology and Geochronology	
GEOL 531	Plate Tectonics	
GEOL 546	Marine Geophysics	
GEOL 548	Environmental Geophysics	
GEOL 570	Environmental Hydrogeology	
GEOL 575	Numerical Modeling for Earth Science Applications	

Intensive Geological Sciences Major (41-43 hours)

Course List

Course	Title	Credits
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 325	Stratigraphy and Sedimentary Basins	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 345	Igneous and Metamorphic Processes	4
GEOL 355	Structural Geology and Tectonics	4
GEOL 500	Field Geology (senior capstone experience)	4-6
Select 9 credits of GEOL courses numbered 399 or higher		9
Total Credit Hours		41-43

South Carolina Honors College students taking this route would graduate with both Honors in SCHC and "Distinction in Geological Sciences".

Requirements:

- A minimum GPA of 3.5 in the major and 3.3 institutional.
- A written sponsorship agreement from the faculty mentor on file in the department.
- Public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment.
- 3 courses (9 hours) in addition to the general major requirements, including:
    - GEOL 498 **or** GEOL 499
    - GEOL 699
    - A minimum of one GEOL 500-level course appropriate to the research

Degree with Distinction in Geological Sciences

Available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Students who successfully fulfill all of these requirements will be awarded their degree with "Distinction in Geological Sciences" upon graduation. South Carolina Honors College students taking this route would graduate with both Honors in SCHC and "Distinction in Geological Sciences".

Requirements:

- A minimum GPA of 3.5 in the major and 3.3 institutional.
- A written sponsorship agreement from the faculty mentor on file in the department.
- Public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment.
- 3 courses (9 hours) in addition to the general major requirements, including:
    - GEOL 498 **or** GEOL 499
    - GEOL 699
    - A minimum of one GEOL 500-level course appropriate to the research

i. School of the Earth, Ocean and Environment

Change to Major/Degree Program – Bachelor of Arts, Environmental Studies, 120 Credit Hours

Existing Program/Supporting Courses Requirements:

Supporting Courses (4 hours)

Course List

Course	Title	Credits
Select one additional science from the following:		4
BIOL 101 & 101L	Biological Principles I and Biological Principles I Laboratory	
or MSCI 102	The Living Ocean	
BIOL 102 & 102L	Biological Principles II and Biological Principles II Laboratory	
or MSCI 311	Biology of Marine Organisms	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Lab	

Change Program/Supporting Courses Requirements:

Supporting Courses (4 hours)

Course	Title	Credits
Select one additional science from the following:		**4**
BIOL 101 & 101L	Biological Principles I and Biological Principles I Laboratory	
or MSCI 102	The Living Ocean	
BIOL 102 & 102L	Biological Principles II and Biological Principles II Laboratory	
or MSCI 311	Biology of Marine Organisms	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Lab	
ENVR 101 & 101L	Introduction to the Environment	

ENVR 101 & 101L	Introduction to the Environment and Introduction to the Environment Lab	
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOG 201	Landform Geography	
MSCI 101	The Ocean Environment	
MSCI 210	Oceans and Society	
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	
or PHYS 211	Essentials of Physics I	
Total Credit Hours		4

Note: BIOL 301 is required for MSCI 311

	and Introduction to the Environment Lab	
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOG 201	Landform Geography	
MSCI 101	The Ocean Environment	
MSCI 210	Oceans and Society	
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	
or PHYS 211 & 211L	Essentials of Physics I and Essentials of Physics I Lab	
Total Credit Hours		**4**
Course List		

Note: BIOL 301 is required for MSCI 311

j. School of the Earth, Ocean and Environment

Change to Major/Degree Program – Bachelor of Science, Environmental Science, 128 Credit Hours

Existing College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

Course List

Course	Title	Credits
STAT 515	Statistical Methods I (or higher)	3
CSCE 102	General Applications Programming [1]	3
Total Credit Hours		6

[1] or a higher level CSCE course

Change College Requirements:

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- Only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

Course	Title	Credits
STAT 515	Statistical Methods I	3
Select one of the following:		3
CSCE 102	General Applications Programming	
a higher level CSCE course		
MSCI 305: Ocean Data Analysis		
MSCI 509: MATLAB-Based Data Analysis in Ocean Sciences		
Total Credit Hours		**6**

*Note: Courses used to fulfill the College requirements may not also be used to fulfill other degree requirements.

Existing Program/Supporting Courses Requirements:

Supporting Courses (27 hours)

Course List

Course	Title	Credits
CHEM 111 & **111L**	General Chemistry I and General Chemistry I Lab	4
CHEM 112 & **112L**	General Chemistry II and General Chemistry II Lab	4
Select one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 201	Observing the Earth	
GEOG 201	Landform Geography	
Select one of the following:		4
PHYS 201 & **201L**	General Physics I and General Physics Laboratory I	
PHYS 211 & **211L**	Essentials of Physics I and Essentials of Physics I Lab	
Select one of the following:		3
ENVR 548	Environmental Economics	
POLI 477	Green Politics	
POLI 478	Environmental Policy	
ENVR 201	Environmental Science and Policy I [1,2]	4
ENVR 202	Environmental Science and Policy II [1,2]	4
Total Credit Hours		27

[1] Pre-major course that must be completed before taking major courses.

[2] Must be passed with a grade of C or higher.

Change Program/Supporting Courses Requirements:

Supporting Courses (27 hours)

Course List

Course	*Title*	*Credits*
Choose 1 of the following:		8
CHEM 111 & **111L** and	General Chemistry I and General Chemistry I Lab	
CHEM 112 & **112L**	General Chemistry II and General Chemistry II Lab	
OR CHEM 141 and	Principles of Chemistry I	
CHEM 142	Principles of Chemistry II	
Select one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 201	Observing the Earth	
GEOG 201	Landform Geography	
Select one of the following:		4
PHYS 201 & **201L**	General Physics I and General Physics Laboratory I	
PHYS 211 & **211L**	Essentials of Physics I and Essentials of Physics I Lab	
Select one of the following:		3
ENVR 548	Environmental Economics	
POLI 477	Green Politics	
POLI 478	Environmental Policy	
ENVR 201	Environmental Science and Policy I [1,2]	4
ENVR 202	Environmental Science and Policy II [1,2]	4
Total Credit Hours		27

[1] Pre-major course that must be completed before tal major courses.

[2] Must be passed with a grade of C or higher.

Existing Major Requirements:

4. Major Requirements (34-36 hours)

A minimum grade of C is required in all major courses.

Major Courses (17-18 hours)

All majors must complete at least 34-36 hours of approved courses which must include the core requirements of 17-18 hours. Majors must complete 17-18 additional hours in major elective courses to bring them to the required 34-36 hours total. Students are required to develop a program of study in consultation with their advisor. A minimum grade of C is required for all courses

Change Major Requirements:

4. Major Requirements (34-36 hours)

A minimum grade of C is required in all major courses.

Major Courses (17-18 hours)

All majors must complete at least 34-36 hours of approved courses which must include the core requirements of 17-18 hours. Majors must complete 17-18 additional hours in major elective courses to bring them to the required 34-36 hours total. Students are required to develop a program of study

used to fulfill major requirements. Any modifications to the program of study require the approval of the Director of Undergraduate Studies.

Course List

Course	Title	Credits
BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory	4
ENVR 590		3
Select three of the following:		10-11
ECIV 350	Introduction to Environmental Engineering	
ENHS 660	Concepts of Environmental Health Science	
GEOG 202	Weather and Climate	
GEOL 315	Surface and Near Surface Processes	
Total Credit Hours		17-18

Major Electives (17-18 hours)

Students, in consultation with their assigned advisor, must develop a program of study which either provides a broad set environmental science courses or allows students to focus in a defined area. Given the current course offerings and faculty expertise at the University, if a student wanted to focus their elective course work, possible areas include: Natural Systems, Climate and Weather, Water Resources, Energy, or Humans and the Environment. All Students' selective courses should include at least 6 hours taken at the 400 level or above. All courses may be selected from ENVR designator classes, but if not ENVR classes, then no more than 3 should be from a single discipline and no more than one Research Methods course.

Courses Acceptable for Major Credit

Course List

Course	Title	Credits
From the Environment and Sustainability Program		
ENVR 321	Environmental Pollution and Health	3
ENVR 323	Global Environmental Health	3
ENVR 331	Integrating Sustainability	3
ENVR 352	Energy, Society and Sustainability	3
ENVR 399	Independent Study	1-6
ENVR 460	Congaree National Park: Field Investigations in Environmental Science	4
ENVR 490	Special Topics in Sustainability and the Environment	1-4

in consultation with their advisor. A minimum grade of C is required for all courses used to fulfill major requirements. Any modifications to the program of study require the approval of the Director of Undergraduate Studies.

Course	*Title*	*Credits*
BIOL 301 & 301L	Ecology and Evolution and Ecology and Evolution Laboratory	4
ENVR 480	Environmental Issues Seminar	3
Select three of the following:		10-11
ECIV 350	Introduction to Environmental Engineering	
ENHS 660	Concepts of Environmental Health Science	
GEOG 202	Weather and Climate	
GEOL 315	Surface and Near Surface Processes	
Total Credit Hours		*17-18*

Course List

Major Electives (17-18 hours)

Students, in consultation with their assigned advisor, must develop a program of study which either provides a broad set environmental science courses or allows students to focus in a defined area. Given the current course offerings and faculty expertise at the University, if a student wanted to focus their elective course work, possible areas include: Natural Systems, Climate and Weather, Water Resources, Energy, or Humans and the Environment. All Students' selective courses should include at least 6 hours taken at the 400 level or above. All courses may be selected from ENVR designator classes, but if not ENVR classes, then no more than 3 should be from a single discipline and no more than one Research Methods course.

Courses Acceptable for Major Credit

Course	*Title*	*Credits*
From the Environment and Sustainability Program		
ENVR 231	Introduction to Sustainability Management and Leadership	3-4
ENVR 321	Environmental Pollution and Health	3
ENVR 323	Global Environmental Health	3
ENVR 331	Integrating Sustainability	3
ENVR 348	Environmental Racism and Justice	3
ENVR 352	Energy, Society and Sustainability	3
ENVR 399	Independent Study	1-6

ENVR 499	Research in Environmental Science	1-3
ENVR 500	Environmental Practicum	3
ENVR 501	Special Topics in the Environment	3
ENVR 531	Sustainability Management and Leadership Strategies	3-4
ENVR 548	Environmental Economics	3
ENVR 571	Conservation Biology	3
ENVR 572	Freshwater Ecology	3
From the Life Sciences		
BIOL 302	Cell and Molecular Biology	3
BIOL 420	Survey of the Plant Kingdom	3
BIOL 420L	Survey of the Plant Kingdom Laboratory	1
BIOL 460	Advanced Human Physiology	3
BIOL 541	Biochemistry	3
BIOL 541L	Biochemistry Laboratory	1
BIOL 549	Plant Physiology	4
BIOL 570	Principles of Ecology	3
BIOL 570L	Principles of Ecology Laboratory	1
BIOL 571	Conservation Biology	3
BIOL 572	Freshwater Ecology	3
BIOL 574	Marine Conservation Biology	3
BIOL 640	Microbial Ecology	3
BIOL 671	Plant Responses to the Environment	3
Other BIOL courses may be selected as approved by student's advisor		
CHEM 321	Quantitative Analysis	3
CHEM 321L	Quantitative Analysis Laboratory	1
CHEM 333	Organic Chemistry I	3
CHEM 333L	Comprehensive Organic Chemistry Laboratory I	2
CHEM 334	Organic Chemistry II	3
CHEM 334L	Comprehensive Organic Chemistry Laboratory II	2
CHEM 623	Introductory Environmental Chemistry	3
CHEM 624	Aquatic Chemistry	3
From the Earth and Marine Sciences		
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4

ENVR 460	Congaree National Park: Field Investigations in Environmental Science	4
ENVR 490	Special Topics in Sustainability and the Environment	1-4
ENVR 499	Research in Environmental Science	1-3
ENVR 500	Environmental Practicum	3
ENVR 501	Special Topics in the Environment	3
ENVR 531	Sustainability Management and Leadership Strategies	3-4
ENVR 533	*Sustainability Projects Course*	3
ENVR 548	Environmental Economics	3
ENVR 571	Conservation Biology	3
ENVR 572	Freshwater Ecology	3
From the Life Sciences		
BIOL 302	Cell and Molecular Biology	3
BIOL 302L	Cell and Molecular Biology Laboratory	1
BIOL 303	Fundamental Genetics	3
BIOL 420	Survey of the Plant Kingdom	3
BIOL 420L	Survey of the Plant Kingdom Laboratory	1
BIOL 460	Advanced Human Physiology	3
BIOL 541	Biochemistry	3
BIOL 541L	Biochemistry Laboratory	1
BIOL 549	Plant Physiology	4
BIOL 570	Principles of Ecology	3
BIOL 570L	Principles of Ecology Laboratory	1
BIOL 571	Conservation Biology	3
BIOL 572	Freshwater Ecology	3
BIOL 574	Marine Conservation Biology	3
BIOL 640	Microbial Ecology	3
BIOL 654	Speciation	3
BIOL 671	Plant Responses to the Environment	3
Other BIOL courses may be selected as approved by student's advisor		
CHEM 321	Quantitative Analysis	3
CHEM 321L	Quantitative Analysis Laboratory	1
CHEM 331L	*Essentials of Organic Chemistry Laboratory I*	1
CHEM 332L	*Essentials of Organic Chemistry Laboratory II*	1
CHEM 333	Organic Chemistry I	3
CHEM 333L	Comprehensive Organic Chemistry Laboratory I	2
CHEM 334	Organic Chemistry II	3
CHEM 334L	Comprehensive Organic Chemistry Laboratory II	2

GEOL 335	Processes of Global Environmental Change	4
GEOL 371	A View of the River	3
GEOL 524	Environmental Radioisotope Geochemistry	3
GEOL 548	Environmental Geophysics	4
GEOL 557	Coastal Processes	3
GEOL 560	Earth Resource Management	3
GEOL 570	Environmental Hydrogeology	3
GEOL 571	Soil Hydrology	4
GEOL 575	Numerical Modeling for Earth Science Applications	3
GEOL 581	Estuarine Oceanography	3
Other GEOL courses may be selected as approved by student's advisor		
MSCI 305	Ocean Data Analysis	3
MSCI 311	Biology of Marine Organisms	4
MSCI 313	The Chemistry of the Sea	4
MSCI 450	Principles of Biological Oceanography	3
MSCI 521	Introduction to Geochemistry	3
MSCI 552	Population Genetics	3
MSCI 566	Ecosystem Analysis	3
MSCI 575	Marine Ecology	3
MSCI 579	Air-Sea Interaction	3
MSCI 582	Marine Hydrodynamics	3
From Geography		
GEOG 202	Weather and Climate	4
GEOG 343	Environment and Society	3
GEOG 346	Climate and Society	3
GEOG 347	Water as a Resource	3
GEOG 348	Biogeography	3
GEOG 349	Cartographic Animation	3
GEOG 360	Geography of Wind	3
GEOG 363	Geographic Information Systems	3
GEOG 365	Hurricanes and Tropical Climatology	3
GEOG 371	Air Pollution Climatology	3
GEOG 530	Environmental Hazards	3
GEOG 545	Synoptic Meteorology	4
GEOG 546	Applied Climatology	4
GEOG 547	Fluvial Geomorphology	3
GEOG 549	Water and Watersheds	3
GEOG 551	Principles of Remote Sensing	3
GEOG 554	Spatial Programming	3

CHEM 623	Introductory Environmental Chemistry	3
CHEM 624	Aquatic Chemistry	3
From the Earth and Marine Sciences		
GEOL 302	Rocks and Minerals	4
GEOL 305	Earth Systems through Time	4
GEOL 315	Surface and Near Surface Processes	4
GEOL 335	Processes of Global Environmental Change	4
GEOL 371	A View of the River	3
GEOG 516	Coastal Zone Management	3
GEOL 524	Environmental Radioisotope Geochemistry	3
GEOL 548	Environmental Geophysics	4
GEOL 557	Coastal Processes	3
GEOL 560	Earth Resource Management	3
GEOL 570	Environmental Hydrogeology	3
GEOL 571	Soil Hydrology	4
GEOL 575	Numerical Modeling for Earth Science Applications	3
GEOL 581	Estuarine Oceanography	3
Other GEOL courses may be selected as approved by student's advisor		
MSCI 305	Ocean Data Analysis	3
MSCI 311	Biology of Marine Organisms	4
MSCI 313	The Chemistry of the Sea	4
MSCI 450	Principles of Biological Oceanography	3
MSCI 521	Introduction to Geochemistry	3
MSCI 537	Aquaculture	3
MSCI 552	Population Genetics	3
MSCI 566	Ecosystem Analysis	3
MSCI 575	Marine Ecology	3
MSCI 579	Air-Sea Interaction	3
MSCI 582	Marine Hydrodynamics	3
From Geography		
GEOG 202	Weather and Climate	4
GEOG 343	Environment and Society	3
GEOG 346	Climate and Society	3
GEOG 347	Water as a Resource	3
GEOG 348	Biogeography	3
GEOG 349	Cartographic Animation	3
GEOG 360	Geography of Wind	3
GEOG 363	Geographic Information Systems	3
GEOG 365	Hurricanes and Tropical Climatology	3
GEOG 371	Air Pollution Climatology	3
GEOG 530	Environmental Hazards	3
GEOG 545	Synoptic Meteorology	4
GEOG 546	Applied Climatology	4
GEOG 547	Fluvial Geomorphology	3
GEOG 549	Water and Watersheds	3
GEOG 551	Principles of Remote Sensing	3

GEOG 562	Satellite Mapping and the Global Positioning System	3
GEOG 563	Advanced Geographic Information Systems	3
GEOG 564	GIS-Based Modeling	3
GEOG 567	Long-Term Environmental Change	3
GEOG 568	Human Dimensions of Global Environmental Change	3
GEOG 569	International Development and the Environment	3
GEOG 570	Geography of Public Land and Water Policy	3
GEOG 571	Microclimatology	4
GEOG 573	Climatic Change and Variability	3
GEOG 575	Digital Techniques and Applications in Remote Sensing	3
Other GEOG courses may be selected as approved by the student's advisor		
From Mathematics, Statistics, and Engineering		
CSCE 206	Scientific Applications Programming	3
CSCE 567	Visualization Tools	3
ECHE 300	Chemical Process Principles	3
ECHE 310	Introductory Chemical Engineering Thermodynamics	3
ECHE 311	Chemical Engineering Thermodynamics	3
ECHE 567	Process Safety, Health and Loss Prevention	3
ECHE 573	Next Energy	3
ECHE 589	Special Advanced Topics in Chemical Engineering	3
ECIV 350	Introduction to Environmental Engineering	3
ECIV 350L	Introduction to Environmental Engineering Laboratory	1
ECIV 362	Introduction to Water Resources Engineering	3
ECIV 405	System Applications in Civil Engineering	3
ECIV 551	Elements of Water and Wastewater Treatment	3
ECIV 555	Principles of Municipal Solid Waste Engineering	3
ECIV 556	Air Pollution Control Engineering	3
ECIV 557	Sustainable Construction for Engineers	3

GEOG 554	Spatial Programming	3
GEOG 562	Satellite Mapping and the Global Positioning System	3
GEOG 563	Advanced Geographic Information Systems	3
GEOG 564	GIS-Based Modeling	3
GEOG 567	Long-Term Environmental Change	3
GEOG 568	Human Dimensions of Global Environmental Change	3
GEOG 569	International Development and the Environment	3
GEOG 570	Geography of Public Land and Water Policy	3
GEOG 571	Microclimatology	4
GEOG 573	Climatic Change and Variability	3
GEOG 575	Digital Techniques and Applications in Remote Sensing	3
Other GEOG courses may be selected as approved by the student's advisor		
From Mathematics, Statistics, and Engineering		
CSCE 206	Scientific Applications Programming	3
CSCE 567	Visualization Tools	3
ECHE 300	Chemical Process Principles	3
ECHE 310	Introductory Chemical Engineering Thermodynamics	3
ECHE 311	Chemical Engineering Thermodynamics	3
ECHE 567	Process Safety, Health and Loss Prevention	3
ECHE 573	Next Energy	3
ECHE 589	Special Advanced Topics in Chemical Engineering	3
ECIV 350	Introduction to Environmental Engineering	3
ECIV 350L	Introduction to Environmental Engineering Laboratory	1
ECIV 362	Introduction to Water Resources Engineering	3
ECIV 405	System Applications in Civil Engineering	3
ECIV 551	Elements of Water and Wastewater Treatment	3
ECIV 555	Principles of Municipal Solid Waste Engineering	3
ECIV 556	Air Pollution Control Engineering	3
ECIV 557	Sustainable Construction for Engineers	3
ECIV 558	Environmental Engineering Process Modeling	3
ECIV 560	Open Channel Hydraulics	3
ECIV 562	Engineering Hydrology	3
ECIV 563	Subsurface Hydrology	3

ECIV 558	Environmental Engineering Process Modeling	3
ECIV 560	Open Channel Hydraulics	3
ECIV 562	Engineering Hydrology	3
ECIV 563	Subsurface Hydrology	3
ECIV 570	Land Development for Engineers	3
EMCH 290	Thermodynamics	3
EMCH 529	Sustainable Design and Development	3
EMCH 553	Nuclear Fuel Cycles	3
EMCH 592	Introduction to Combustion	3
EMCH 594	Solar Heating	3
EMCH 597	Thermal Environmental Engineering	3
ENCP 290	Thermodynamic Fundamentals	3
ENCP 540	Environmentally Conscious Manufacturing	3
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
MATH 523	Mathematical Modeling of Population Biology	3
STAT 516	Statistical Methods II	3
STAT 518	Nonparametric Statistical Methods	3
STAT 520	Forecasting and Time Series	3
STAT 528	Environmental Statistics	3
STAT 540	Computing in Statistics	3
From the Health Sciences		
ENHS 321	Environmental Pollution and Health	3
ENHS 660	Concepts of Environmental Health Science	3
ENHS 665	Biofilms in Environmental Health and Disease	3
ENHS 670	Environmental Pollutants and Human Health	3

Research Methods Courses

Not required, but if selected, only one of these three may be taken for credit towards the major.

Course List

Course	Title	Credits
CSCE 145	Algorithmic Design I	4
ECIV 111	Introduction to Engineering Graphics and Visualization	3

ECIV 570	Land Development for Engineers	3
EMCH 290	Thermodynamics	3
EMCH 529	Sustainable Design and Development	3
EMCH 553	Nuclear Fuel Cycles	3
EMCH 592	Introduction to Combustion	3
EMCH 594	Solar Heating	3
EMCH 597	Thermal Environmental Engineering	3
ENCP 290	Thermodynamic Fundamentals	3
ENCP 540	Environmentally Conscious Manufacturing	3
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
MATH 523	Mathematical Modeling of Population Biology	3
STAT 516	Statistical Methods II	3
STAT 518	Nonparametric Statistical Methods	3
STAT 520	Forecasting and Time Series	3
STAT 528	Environmental Statistics	3
STAT 540	Computing in Statistics	3
From the Health Sciences		
ENHS 321	Environmental Pollution and Health	3
ENHS 660	Concepts of Environmental Health Science	3
ENHS 665	Biofilms in Environmental Health and Disease	3
ENHS 670	Environmental Pollutants and Human Health	3
Course List		

Research Methods Courses

Not required, but if selected, only one of these three may be taken for credit towards the major.

Course	*Title*	*Credits*
CSCE 145	Algorithmic Design I	4
ECIV 111	Introduction to Engineering Graphics and Visualization	3
EMCH 111	Introduction to Computer-Aided Design	3
Course List		

EMCH 111	Introduction to Computer-Aided Design	3

k. School of the Earth, Ocean and Environment

Change to Minor – Geophysics Minor, 25 to 28 Credit Hours, New Credit Hours – 18 to 20

Existing Cognate and Minor Requirements:

Minor Requirements

Course List

Course	Title	Credits
Core Courses		
Select one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOL 201	Observing the Earth	
GEOL 302	Rocks and Minerals	4
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	4
or PHYS 211 & 211L	Essentials of Physics I and Essentials of Physics I Lab	
MATH 141	Calculus I	4
Upper-Level Geology Courses		
Select three of the following:		9-12
GEOL 345	Igneous and Metamorphic Processes	
GEOL 355	Structural Geology and Tectonics	
GEOL 531	Plate Tectonics	
GEOL 548	Environmental Geophysics	
GEOL 554	Applied Seismology	
GEOL 555	Elementary Seismology	
GEOL 556	Seismic Reflection Interpretation	
GEOL 575	Numerical Modeling for Earth Science Applications	
GEOL 582	Marine Hydrodynamics	
Total Credit Hours		25-28

Change Cognate and Minor Requirements:

Course	Title	Credits
Prerequisites *may apply to Carolina Core		
MATH 141	Calculus I	
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	
OR PHYS 211 & 211L	Essentials of Physics I and Essentials of Physics I Lab	
Core Courses		
Choose one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOL 201	Observing the Earth	
GEOL 302	Rocks and Minerals	4
Select 10-12 credits from the following:		10-12
GEOL 345	Igneous and Metamorphic Processes	
GEOL 355	Structural Geology and Tectonics	
GEOL 531	Plate Tectonics	
GEOL 548	Environmental Geophysics	
GEOL 554	Applied Seismology	
GEOL 555	Elementary Seismology	
GEOL 556	Seismic Reflection Interpretation	
GEOL 575	Numerical Modeling for Earth Science Applications	
GEOL 582	Marine Hydrodynamics	
Total Credit Hours		18-20

l. School of the Earth, Ocean and Environment

Change to Minor – Geological Sciences Minor, 24 Credit Hours, New Credit Hours – 20

Existing Cognate and Minor Requirements:

Minor Requirements

Course List		
Course	**Title**	**Credits**
Core Courses		
Select one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOL 201	Observing the Earth	
GEOL 302	Rocks and Minerals	4
Select one of the following:		4
CHEM 111 & 111L	General Chemistry I and General Chemistry I Lab	
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	
PHYS 211 & 211L	Essentials of Physics I and Essentials of Physics I Lab	
Upper-level Geology Courses		
Select three upper-level Geological Sciences courses, with at least two selected from the following:		12
GEOL 305	Earth Systems through Time	
GEOL 315	Surface and Near Surface Processes	
GEOL 325	Stratigraphy and Sedimentary Basins	
GEOL 335	Processes of Global Environmental Change	
GEOL 345	Igneous and Metamorphic Processes	
GEOL 355	Structural Geology and Tectonics	
Total Credit Hours		24

Note: PHYS 201 or PHYS 211 required for GEOL 355 and see MATH requirement for GEOL 345.

Change Cognate and Minor Requirements:

Minor Requirements

Course	**Title**	**Credits**
Prerequisite (may be used to fulfill a Carolina Core requirement)		
Select one of the following:		**4**
CHEM 111 & 111L	General Chemistry I and General Chemistry I Lab	
PHYS 201 & 201L	General Physics I and General Physics Laboratory I	
PHYS 211 & 211L	Essentials of Physics I and Essentials of Physics I Lab	
Core Courses		
Select one of the following:		4
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
GEOL 201	Observing the Earth	
Upper-level Geology Courses		
GEOL 302	Rocks and Minerals	4
Select three upper-level Geological Sciences courses, with at least two selected from the following:		12
GEOL 305	Earth Systems through Time	
GEOL 315	Surface and Near Surface Processes	
GEOL 325	Stratigraphy and Sedimentary Basins	
GEOL 335	Processes of Global Environmental Change	
GEOL 345	Igneous and Metamorphic Processes	
GEOL 355	Structural Geology and Tectonics	
Total Credit Hours		**20**

Note: PHYS 201 or PHYS 211 required for GEOL 355 and see MATH requirement for GEOL 345.

m. Department of Statistics

Change to Major/Degree Program – Bachelor of Science, Statistics, 120 Credit Hours

Existing College Requirements:

Change College Requirements:

2. College Requirements (15-19 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6-7 hours)
must be passed with a grade of C or higher

- **MATH 344** or **MATH 544**
- **CSCE 145** or **CSCE 206**

History (3 hours)
The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (6 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (3 hours of Social Science)
- ENGL 462 **or** ENGL 463 *must be passed with a grade of C or higher*

2. College Requirements (15-19 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6-7 hours)
must be passed with a grade of C or higher

- MATH 344 **or** MATH 544
- CSCE 145 **or** CSCE 206

History (3 hours)
The College of Arts and Sciences requires one additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a ***U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***non-U.S. history*** course.
- If the Carolina Core GHS requirement is fulfilled by a ***non-U.S. history*** course, the College of Arts and Sciences history requirement must be fulfilled by a ***U.S. history*** course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses.

Social Science and Fine Arts or Humanities (6 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (3 hours of Social Science)
- ENGL 363, ENGL 462 **or** ENGL 463 *must be passed with a grade of C or higher*

n. Department of Theatre and Dance

Change to Concentration – Dance Education, K-12 Certification

Existing Concentration / Area of Emphasis / Distinction Requirements:

Course	Title	Credits
DANC 103	The Dancer's Body	3
DANC 160A	Dance Improvisation and Composition	3
DANC 300	Music for Dancers	3
DANC 360	Choreography I	3
Techniques		

Change Concentration / Area of Emphasis / Distinction Requirements:

Course	Title	Credits
DANC 103	The Dancer's Body	3
DANC 160A	Dance Improvisation and Composition	3
DANC 360	Choreography I	3
DANC 476	Production Design for Dance	3
Techniques		
The following courses must be taken 4 times each:		

The following courses must be taken 4 times each:		
DANC 202A	Ballet Technique II	4
DANC 302A	Ballet Technique III	4
DANC 402A	Ballet Technique IV	4
The following courses must be taken 4 times each:		
DANC 212A	Contemporary Dance Technique II	4
DANC 312A	Contemporary Dance Technique III	4
DANC 412A	Contemporary Dance Technique IV	4
Select two hours of the following world dance forms courses:		2
DANC 111A	World Dance I	
or DANC 113A	World Dance II	
DANC 307	West African Dance I	
or DANC 407	West African Dance II	
DANC 380	Movement and Dance for Musical Theatre	3
Dance Company		
DANC 177	Dance Company I	3
Professional Education		
DANC 270	Dance Education I: Introduction to Dance Education	2
DANC 370	Dance Education II: Creative Dance	3
DANC 470	Dance Education III: Dance Pedagogy for Middle and High School	4
DANC 471	Synthesis of Dance Education Constructs (pre-internship seminar)	1
DANC 478	Integrated Approaches in Dance Education	5
DANC 479	Teaching Internship in Dance Education	12
Education Courses		
EDFI 300	Schools in Communities	3
EDPY 401	Learners and the Diversity of Learning	3
PEDU 515	Physical Education for Inclusion	3
or EDEX 523	Introduction to Exceptional Children	
EDRD 500	Content Area Literacy PK-12	3

Notes:

DANC 202A	Ballet Technique II	4
DANC 302A	Ballet Technique III	4
DANC 402A	Ballet Technique IV	4
The following courses must be taken 4 times each:		
DANC 212A	Contemporary Dance Technique II	4
DANC 312A	Contemporary Dance Technique III	4
DANC 412A	Contemporary Dance Technique IV	4
Select two hours of the following world dance forms courses:		2
DANC 111A	World Dance I	
or DANC 113A	World Dance II	
DANC 307	West African Dance I	
or DANC 407	West African Dance II	
DANC 380	Movement and Dance for Musical Theatre	3
Dance Company		
DANC 177	Dance Company I	3
Professional Education		
DANC 270	Dance Education I: Introduction to Dance Education	2
DANC 370	Dance Education II: Creative Dance	3
DANC 470	Dance Education III: Dance Pedagogy for Middle and High School	4
DANC 471	Synthesis of Dance Education Constructs (pre-internship seminar)	1
DANC 478	Integrated Approaches in Dance Education	5
DANC 479	Teaching Internship in Dance Education	12
Education Courses		
EDFI 300	Schools in Communities	3
EDPY 401	Learners and the Diversity of Learning	3
PEDU 515	Physical Education for Inclusion	3
or EDEX 523	Introduction to Exceptional Children	
EDRD 500	Content Area Literacy PK-12	3

Notes:

- Students must successfully complete DANC 302A and DANC 312A with a C+ or better.
- Ballet and contemporary technique courses are variable credit.
- Students must meet both the number of credits and distribution of technique requirements listed above.

- Students must successfully complete DANC 302A and DANC 312A with a C+ or better.
- Ballet and contemporary technique courses are variable credit.
- Students must meet both the number of credits and distribution of technique requirements listed above.

o. College of Arts and Sciences

Change to Minor – Medical Humanities and Culture Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Minor Requirements

The minor in Medical Humanities and Culture consists of 18 credit hours or 6 classes.

- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the humanities (Group A); if two humanities courses (6 hours) are chosen, then 12 hours must be chosen from the social sciences, so that the student takes the requisite 18 hours total.
- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the social sciences (Group B); if two social sciences courses (6 hours) are chosen, then four courses (12 hours) must be chosen in the humanities, so that the student takes the requisite 18 hours total.

Course List

Course	Title	Credits
Group A: Humanities		
Select two-four of the following:		6-12
ARTH 333	Art, Anatomy, and Medicine, 1700-Present	
CLAS 230	Medical and Scientific Terminology	
CLAS 360	Classical Origins of Western Medical Ethics	
ENGL 341	Literature and Medicine	
HIST 393	Making Modern Science: The Life Sciences	
HIST 451	The History of American Medicine	
HIST 452	The History of Science in America	
JOUR 507	Communicating Science, Health and the Environment	

Change Cognate and Minor Requirements:

Minor Requirements

The minor in Medical Humanities and Culture consists of 18 credit hours or 6 classes.

- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the humanities (Group A); if two humanities courses (6 hours) are chosen, then 12 hours must be chosen from the social sciences, so that the student takes the requisite 18 hours total.
- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the social sciences (Group B); if two social sciences courses (6 hours) are chosen, then four courses (12 hours) must be chosen in the humanities, so that the student takes the requisite 18 hours total.

Course	Title	Credits
Group A: Humanities		
Select two-four of the following:		6-12
ARTH 333	Art, Anatomy, and Medicine, 1700-Present	
CLAS 230	Medical and Scientific Terminology	
CLAS 360	Classical Origins of Western Medical Ethics	
ENGL 341	Literature and Medicine	
HIST 382	History of Medicine: Antiquity to the Scientific Revolution	
HIST 393	Making Modern Science: The Life Sciences	
HIST 451	The History of American Medicine	
HIST 452	The History of Science in America	
JOUR 507	Communicating Science, Health and the Environment	
PHIL 312	Classical Origins of Western Medical Ethics	
PHIL 321	Medical Ethics	

PHIL 312	Classical Origins of Western Medical Ethics	
PHIL 321	Medical Ethics	
PHIL 323	Ethics of Science and Technology	
PHIL 360	History and Philosophy of Science	
PHIL 362	Philosophy of Research Design in Science and Medicine	
PHIL 512	Philosophy of Science	
PHIL 550	Health Care Ethics	
PHIL 598	Readings in Philosophy	
RELG 473	Religions, Medicines, and Healing	
SPAN 360	Spanish for Healthcare Professionals	
THEA 554	Performing Arts Safety	
Group B: Social Sciences		
Select two-four of the following:		6-12
ANTH 204	Plagues Past and Present	
ANTH 208	Anthropology of Globalization and Development	
ANTH 212	Food and Culture	
ANTH 221	Forensics of Sherlock Holmes	
ANTH 262	Basic Forensic Anthropology	
ANTH 263	Medical Experimentation and the Black Body	
ANTH 366	Medicine, Disease, and Slavery	
ANTH 388	Cultures, Pregnancy, and Birth	
ANTH 551	Medical Anthropology: Fieldwork	
ANTH 552	Medical Anthropology	
ANTH 557	Psychological Anthropology	
ANTH 565	Health and Disease in the Past	
ECON 531	Health Economics	
ENHS 323	Global Environmental Health	
ENHS 324	Environment and Obesity	
ENHS 660	Concepts of Environmental Health Science	
ENVR 323	Global Environmental Health	
HPEB 511	Health Problems in a Changing Society	
HPEB 512	Southern Discomfort: Public Health in the American South	
HPEB 513	Race, Ethnicity, and Health: Examining Health Inequalities	
HPEB 547	Consumer Health in Contemporary Society	

PHIL 323	Ethics of Science and Technology	
PHIL 360	History and Philosophy of Science	
PHIL 362	Philosophy of Research Design in Science and Medicine	
PHIL 512	Philosophy of Science	
PHIL 550	Health Care Ethics	
PHIL 598	Readings in Philosophy	
RELG 473	Religions, Medicines, and Healing	
SPAN 360	Spanish for Healthcare Professionals	
THEA 554	Performing Arts Safety	
Group B: Social Sciences		
Select two-four of the following:		6-12
ANTH 204	Plagues Past and Present	
ANTH 208	Anthropology of Globalization and Development	
ANTH 212	Food and Culture	
ANTH 221	Forensics of Sherlock Holmes	
ANTH 262	Basic Forensic Anthropology	
ANTH 263	Medical Experimentation and the Black Body	
ANTH 366	Medicine, Disease, and Slavery	
ANTH 388	Cultures, Pregnancy, and Birth	
ANTH 551	Medical Anthropology: Fieldwork	
ANTH 552	Medical Anthropology	
ANTH 557	Psychological Anthropology	
ANTH 565	Health and Disease in the Past	
ECON 531	Health Economics	
ENHS 323	Global Environmental Health	
ENHS 324	Environment and Obesity	
ENHS 660	Concepts of Environmental Health Science	
ENVR 323	Global Environmental Health	
HPEB 511	Health Problems in a Changing Society	
HPEB 512	Southern Discomfort: Public Health in the American South	
HPEB 513	Race, Ethnicity, and Health: Examining Health Inequalities	
HPEB 547	Consumer Health in Contemporary Society	
HPEB 551	Medical Anthropology: Field Work	
HPEB 552	Medical Anthropology	
HPEB 560	Cooking Up a Storm: Food, Globalization, Localization, and Health in the South	
HPEB 621	Maternal and Child Health	
HSPM 412	Health Economics	

HPEB 551	Medical Anthropology: Field Work	
HPEB 552	Medical Anthropology	
HPEB 560	Cooking Up a Storm: Food, Globalization, Localization, and Health in the South	
HPEB 621	Maternal and Child Health	
HSPM 412	Health Economics	
MGMT 371	Principles of Management	
MGMT 374	Strategic Human Resource Management	
PSYC 465	Health Psychology	
PSYC 503	Psychology of Drug Use and Effects	
SLIS 415	Social Informatics	
SOCY 310	Social Demography	
SOCY 315	Global Population Issues	
SOCY 360	Sociology of Medicine and Health	
SOCY 510	Life Course Demographics	
WGST 113	Women's Health	
WGST 388	Cultures, Pregnancy, and Birth	
WGST 621	Maternal and Child Health	
Total Credit Hours		12-24

Note: Departmental or Honors College special topics courses related to medicine may satisfy the minor requirements in either the humanities (Group A) or social sciences (Group B), provided that the course substitutions are pre-approved by the office of the Dean of Undergraduate Student Affairs and Advising in Flinn Hall in consultation with faculty content experts; bring a syllabus to Flinn Hall for the course you want pre-approved. Appeals to register in pre-approved honors college courses should be directed to the Honors College.

MGMT 371	Principles of Management	
MGMT 374	Strategic Human Resource Management	
PSYC 465	Health Psychology	
PSYC 503	Psychology of Drug Use and Effects	
SLIS 415	Social Informatics	
SOCY 310	Social Demography	
SOCY 315	Global Population Issues	
SOCY 360	Sociology of Medicine and Health	
SOCY 510	Life Course Demographics	
WGST 113	Women's Health	
WGST 388	Cultures, Pregnancy, and Birth	
WGST 621	Maternal and Child Health	
Total Credit Hours		**12-24**
Course List		

Note: Departmental or Honors College special topics courses related to medicine may satisfy the minor requirements in either the humanities (Group A) or social sciences (Group B), provided that the course substitutions are pre-approved by the office of the Dean of Undergraduate Student Affairs and Advising in Flinn Hall in consultation with faculty content experts; bring a syllabus to Flinn Hall for the course you want pre-approved. Appeals to register in pre-approved honors college courses should be directed to the Honors College.

New Courses:

ARTS 547 Advanced Interaction Design

CLAS 325 Classical Roots of US Constitution

CLAS 370 Rise and Fall of the Athenian Empire

CLAS 371 The Caesars: Rome’s First Family

COLA 399 Interdisciplinary Undergraduate Research

CYBR 498	Internship: Global Experience in Cyberintelligence (DL)
CYBR 499	Internship: Cyberintelligence (DL)
ENVR 517	Socionatural Coastlines in Global Perspective
ENVR 534	Water and Sanitation in Global Perspective
GEOG 517	Socionatural Coastlines in Global Perspective
HIST 337	Stalinism
ITAL 330	Teatromania: Italian Theater Practicum
NSCI 300	Introduction to Neuroscience (DL)
NSCI 498	Individual Research in Neuroscience
NSCI 499	Senior Thesis
NSCI 560	Advanced Topics in Neuroscience
NSCI 570	Neuroscience Laboratory

Course Changes:

ASTR 340	Introduction to Relativistic Astrophysics
BIOL 612	Virology – Classical and Emerging Concepts (DL)
BIOL 654	Speciation
HIST 470	Constitutional History of the United States
MART 101	Making Media That Matters
PHYS 202	General Physics II
PHYS 306	Principles of Physics III
PHYS 310	Intermediate Experimental Physics
PHYS 340	Introduction to Relativistic Astrophysics
PHYS 499	Undergraduate Research
PHYS 501	Quantum Physics I
PHYS 503	Mechanics

PHYS 506 Thermal Physics and Statistical Mechanics

PHYS 515 Mathematical Physics I

PHYS 516 Mathematical Physics II

PHYS 541 Advanced Experimental Physics I

PHYS 546 Introduction to Astrophysics

PSYC 455 Introduction to Neuroscience

PSYC 560 Advanced Topics in Neuroscience

PSYC 570 Neuroscience Laboratory

RELG 471 Interfaith Dialogues in the 21st Century
New Course Name – Race and Religion

THEA 562 History of the Theatre II (DL)

Course Terminations:

PHYS 308 Classic Experiments in Physics I

PHYS 309 Classic Experiments in Physics II

PHYS 509 Solid State Electronics

PHYS 510 Digital Electronics

PHYS 512 Solid State Physics

PHYS 514 Optics, Theory, and Applications

PHYS 521 Biophysics

PHYS 531 Advanced Physics Laboratory I

PHYS 532 Advanced Physics Laboratory II

RELG 514 The Quest of the Historical Jesus

2. DARLA MOORE SCHOOL OF BUSINESS

Program Changes:

a. Department of Accounting

Change to Concentration – Bachelors: BSBA, Accounting, New Concentration, Sustainability in Business, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

N/A

Change Concentration / Area of Emphasis / Distinction Requirements:

Sustainability in Business Concentration (12 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The sustainability concentration must be taken in conjunction with a major. The department may add additional electives to the Sustainability in Business Concentration, subject to the approval of the Sustainability Curriculum and research Faculty Committee.

Course	Title	Credits
MKTG 472	Business, Markets and Sustainability	3
Select six to nine hours from the following:		6-9
MGMT 407	CSR and Stakeholder Management	
FINA 473	Corporate Governance and Agency Conflicts	
ECON 500	International Development Economics	
ECON 505	International Development Economics	
ECON 548	Environmental Economics	
MGSC 489	Sustainable Operations & Supply Chain Management	
Select zero to three hours from the following:		0-3
ENVR 321	Introduction to Sustainability Management and Leadership	
ENVR 322	Environmental Ethics	
ENVR 331	Integrating Sustainability	
ENVR 533	Sustainability Projects Course	

GEOG 321	Sustainable Cities	
HRTM 485	Sustainable Tourism	
POLI 478	Environmental Policy	
Total Credit Hours		12
Note: Courses applied in the major may not also fulfill concentration requirements.		

b. Department of Accounting

Change to Major/Degree Program – Accounting, BSBA, 125 Credit Hours

Existing Program Introduction:

Degree Requirements (125 Hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~21~~ 30
4. Major Requirements	24

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~21~~ 30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students

Change Optional Program Introduction:

Degree Requirements (125 Hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	9-30
4. Major Requirements	24-33

Change Program/Supporting Courses Requirements:

3. Program Requirements (9-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of

may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Existing Electives:

Electives (~~3-9~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Change Electives:

Electives (0-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 125 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (24 hours)

a minimum grade of C is required in all major courses

Major Courses (18 hours)

Course	Title	Credits
ACCT 401	Financial Accounting I	3
ACCT 402	Cost/Managerial Accounting	3
ACCT 403	Tax I	3
ACCT 404	Accounting Information Systems I	3
ACCT 405	Financial Accounting II	3
ACCT 406	Auditing I	3
Total Credit Hours		**18**

Major Electives (6 hours)

Course	Title	Credits
Select six hours from the following:		6
ACCT 501	~~Financial Accounting III~~	
ACCT ~~502~~	Managerial Accounting for Decision Making	
ACCT ~~504~~	Legal Issues for Accountants & Managers	
ACCT ~~505~~	Governmental and Nonprofit Accounting	
ACCT ~~506~~	International Financial Reporting [1]	
ACCT ~~5~~90	Special Topics in Accounting	
Total Credit Hours		**6**

[1] International-focused course

Business Analytics Concentration (~~1~~2 hours) optional

~~This~~ analytics concentration ~~can only~~ be taken in conjuction with ~~the accounting~~ major.

Change Major Requirements:

4. Major Requirements (24-33 hours)

a minimum grade of C is required in all major courses

Major Courses (18 hours)

Course	Title	Credits
ACCT 401	Financial Accounting I	3
ACCT 402	Cost/Managerial Accounting	3
ACCT 403	Tax I	3
ACCT 404	Accounting Information Systems I	3
ACCT 405	Financial Accounting II	3
ACCT 406	Auditing I	3
Total Credit Hours		**18**

Major Electives (6 hours)

Course	Title	Credits
Select six hours from the following:		6
ACCT 421	Advanced Accounting	
ACCT 422	Managerial Accounting for Decision Making	
ACCT 424	Legal Issues for Accountants & Managers	
ACCT 425	Governmental and Nonprofit Accounting	
ACCT 426	International Financial Reporting [1]	
ACCT 490	Special Topics in Accounting	
Total Credit Hours		**6**

[1] Accounting electives may not be offered every semester.

[2] Students participating in the Accelerated program may complete 600-level versions of electives for graduate credit towards the Master of Accountancy (MACC) program.

[3] International-focused course

Business Analytics Concentration (9 hours) optional

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
Required Courses		**3**
MGSC 394	Data Analytics for Business	
Elective Courses		**6**

Course	Title	Credits
Required Courses		~~6~~
MGSC 394	Data Analytics for Business	
~~**ACCT 404**~~	~~Accounting Information Systems I~~	
Elective Courses		**6**
Select two of the following:		
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	

~~Note: a maximum of one course can double count within your major(s).~~

Select two of the following:		
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	

Note: Courses applied in the major may not also fulfill concentration requirements.

c. Department of Economics

Change to Major/Degree Program – BSBA, Business Economics, 122 Credit Hours

Existing Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~15~~

Change Optional Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	21-24

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Business Economics must complete additional upper level (300 level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper Level Business Electives.~~

Change Program/Supporting Courses Requirements:

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Existing Electives:

Electives (~~3–12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (~~15~~ hours)

a minimum grade of C is required in all major courses

Major Courses (9 hours)

Change Major Requirements:

4. Major Requirements (21-24 hours)

a minimum grade of C is required in all major courses

Major Courses (9 hours)

Course	Title	Credits
ECON 321	Intermediate Microeconomic Theory	3
ECON 322	Intermediate Macroeconomic Theory	3
ECON 436	Introductory Econometrics	3
Total Credit Hours		**9**

Major Electives (~~6~~ hours)

Six hours of ECON courses numbered 400 or above.

Note: **ECON 421**, **ECON 476**, **ECON 499** and **ECON 524** cannot be used to fulfill the 6 hour ~~requirement~~.

Business Analytics Concentration (~~12~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine hours from~~ the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	

Course	Title	Credits
ECON 321	Intermediate Microeconomic Theory	3
ECON 322	Intermediate Macroeconomic Theory	3
ECON 436	Introductory Econometrics	3
Total Credit Hours		**9**

Major Electives (12 hours)

Course	Title	Credits
Six hours of ECON courses numbered 400 or above.		6
Upper-Level Business Electives: Students with a single major in Business Economics must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		6
Total Credit Hours		**12**

Note: **ECON 421**, **ECON 476**, **ECON 499** and **ECON 524** cannot be used to fulfill the 6 hours of ECON courses 400 or above.

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	

MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~12~~

MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

d. Department of Finance

Change to Major/Degree Program – BSBA, Real Estate, 122 Credit Hours

Existing Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~15~~

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or~~

Change Optional Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	21-24

Change Program/Supporting Courses Requirements:

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved

~~pursue a business analytics concentration in place of Upper-Level Business Electives.~~

Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Existing Electives:

Electives (~~3–12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business

section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (~~15~~ hours)

a minimum grade of C is required in all major courses

Major Courses (9 hours)

Course	Title	Credits
FINA 366	Introduction to Real Estate and Urban Development	3
FINA 466	Real Estate Investment Fundamentals	3
FINA 467	Real Estate Finance	3
Total Credit Hours		**9**

Major Electives (~~6~~ hours)

Course	Title	Credits
Select one of the following:		3
FINA 365	Corporate Financial Analysis	
FINA 465	Commercial Bank Practice and Policy	
FINA 469	Investment Analysis and Portfolio Management	
Select one of the following:		3
FINA 367	Real Estate Market Analysis	
FINA 468	Real Estate Appraisal	
FINA 480	Global Real Estate Capital Markets	
Total Credit Hours		**~~6~~**

Business Analytics Concentration (~~12~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual

Change Major Requirements:

4. Major Requirements (21-24 hours)

A minimum grade of C is required in all major courses.

Major Courses (9 hours)

Course	Title	Credits
FINA 366	Introduction to Real Estate and Urban Development	3
FINA 466	Real Estate Investment Fundamentals	3
FINA 467	Real Estate Finance	3
Total Credit Hours		**9**

Major Electives (12 hours)

Course	Title	Credits
Select one of the following:		3
FINA 365	Corporate Financial Analysis	
FINA 465	Commercial Bank Practice and Policy	
FINA 469	Investment Analysis and Portfolio Management	
Select one of the following:		3
FINA 367	Real Estate Market Analysis	
FINA 468	Real Estate Appraisal	
FINA 477	Real Estate Development	
FINA 480	Global Real Estate Capital Markets	
Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		**6**
Total Credit Hours		**12**

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The

majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine hours~~ of the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~**12**~~

analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

e. Department of Finance

Change to Major/Degree Program – BSBA, Risk Management and Insurance, 122 Credit Hours

Existing Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43

Change Optional Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43

2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~15~~

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.~~

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Existing Electives:

Electives (~~3-12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements~~

2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	21-24

Change Program/Supporting Courses Requirements:

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree

~~(ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (15 hours)

a minimum grade of C is required in all major courses

Major Courses (6 hours)

Course	Title	Credits
FINA 341	Management of Risk and Insurance	3
FINA 469	Investment Analysis and Portfolio Management	3
Total Credit Hours		**6**

Major Electives (9 hours)

Course	Title	Credits
Select three of the following:		9
FINA 442	Life and Health Insurance	
FINA 443	Property and Liability Insurance	
FINA 444	Corporate Risk Management	
FINA 445	Employee Benefits	
FINA 446	Insurance Operations	

Change Major Requirements:

4. Major Requirements (21-24 hours)

A minimum grade of C is required in all major courses.

Major Courses (6 hours)

Course	Title	Credits
FINA 341	Management of Risk and Insurance	3
FINA 469	Investment Analysis and Portfolio Management	3
Total Credit Hours		**6**

Major Electives (15 hours)

Course	Title	Credits
Select three of the following:		9
FINA 442	Life and Health Insurance	
FINA 443	Property and Liability Insurance	
FINA 444	Corporate Risk Management	
FINA 445	Employee Benefits	
FINA 446	Insurance Operations	

FINA 464	Financial Innovation	
FINA 471	Derivative Securities	
ECON 531	Health Economics	
IBUS 436	Risk Management and Security Strategies in International Business	
Total Credit Hours		**~~9~~**

[1] Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Risk Management and Insurance major. Please consult your ad~~iv~~sor to determine if it is applicable in the semester you wish to enroll in the project course.

Business Analytics Concentration (12 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine~~ of the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	

FINA 464	Financial Innovation	
FINA 471	Derivative Securities	
ECON 531	Health Economics	
IBUS 436	Risk Management and Security Strategies in International Business	
Upper-Level Business Electives: Students with a single major in Risk Management and Insurance must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		**6**
Total Credit Hours		**15**

[1] Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Risk Management and Insurance major. Please consult your advisor to determine if it is applicable in the semester you wish to enroll in the project course.

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	

MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~12~~

MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

f. Department of Finance

Change to Major/Degree Program – BSBA, Finance, 122 Credit Hours

Existing Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~15~~

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or~~

Change Optional Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	21-24

Change Program/Supporting Courses Requirements:

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing

~~pursue a business analytics concentration in place of Upper Level Business Electives.~~

international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Existing Electives:

Electives (~~3–12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework

electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (15 hours)

a minimum grade of C is required in all major courses

Major Courses (6 hours)

Course	Title	Credits
FINA 365	Corporate Financial Analysis	3
FINA 469	Investment Analysis and Portfolio Management	3
FINA 460	Financial Statement Analysis	3
Total Credit Hours		**9**

Major Electives (~~6~~ hours)

Course	Title	Credits
Select six hours from the following:		6
FINA 341	Management of Risk and Insurance	
FINA 366	Introduction to Real Estate and Urban Development	
FINA 444	Corporate Risk Management	
FINA 463	Case Studies in Corporate Finance	
FINA 464	Financial Innovation	
FINA 465	Commercial Bank Practice and Policy	
FINA 466	Real Estate Investment Fundamentals	
FINA 467	Real Estate Finance	
FINA 471	Derivative Securities	
FINA 472	Student-Managed Investments	
FINA 475	Fixed Income Securities	
FINA 476	Foundations of Capitalism [1]	
FINA 490	Special Topics in Finance [2]	
IBUS 401	International Financial Management [1]	
Total Credit Hours		**6**

Change Major Requirements:

4. Major Requirements (21-24 hours)

A minimum grade of C is required in all major courses.

Major Courses (6 hours)

Course	Title	Credits
FINA 365	Corporate Financial Analysis	3
FINA 469	Investment Analysis and Portfolio Management	3
FINA 460	Financial Statement Analysis	3
Total Credit Hours		**9**

Major Electives (12 hours)

Course	Title	Credits
Finance Electives		6
Select six hours from the following:		
FINA 341	Management of Risk and Insurance	
FINA 366	Introduction to Real Estate and Urban Development	
FINA 444	Corporate Risk Management	
FINA 463	Case Studies in Corporate Finance	
FINA 464	Financial Innovation	
FINA 465	Commercial Bank Practice and Policy	
FINA 466	Real Estate Investment Fundamentals	
FINA 467	Real Estate Finance	
FINA 471	Derivative Securities	
FINA 472	Student-Managed Investments	
FINA 473	Corporate Governance and Agency Conflicts	
FINA 475	Fixed Income Securities	
FINA 476	Foundations of Capitalism [1]	
FINA 490	Special Topics in Finance [2]	

[1] Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Risk Management and Insurance major. Please consult your ad~~iv~~sor to determine if it is applicable in the semester you wish to enroll in the project course.

Business Analytics Concentration (~~12~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine~~ of the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
IBUS 401	International Financial Management [1]	
Upper-Level Business Electives: Students with a single major in Finance must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		6
Total Credit Hours		12

[1] International-focused course.

[2] Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Risk Management and Insurance major. Please consult your advisor to determine if it is applicable in the semester you wish to enroll in the project course.

Note: FINA 333, FINA 369, and all Real Estate plus Risk Management and Insurance courses not specifically listed as electives of the Finance Major do not count towards the major in Finance.

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	

MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~12~~

IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

g. International Business Department

Change to Major/Degree Program – BSBA, International Business, 128 to 131 Credit Hours

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~21~~-30 hours)

Change Program/Supporting Courses Requirements:

3. Program Requirements (12-30 hours)

Supporting Courses (0-12 hours)
Foreign Language (0-12 hours)

The International Business major requires at least four advanced language-based courses numbered 300 and above in one foreign language. Students in specific concentrations must meet experiential language program participation requirements that do not necessarily equate to specific hours, credits, or course levels. Students may fulfill minor or cognate requirements through completion of the foreign language requirement.

Note: Native speakers in approved languages may seek approval for this requirement to be waived.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~
~~Directed course work may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*
Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

~~submit an alternative program of study to their Moore School academic advisor to satisfy the approved course work requirement. All minor courses or courses approved as alternatives must be passed with a grade of C or better.~~

Existing Electives:

~~Electives (3-12 hours)~~

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Existing Major Requirements:

4. Major Requirements (27-39 hours)

Students majoring in International Business are required to study outside the United States for a period of one semester, normally the spring semester of the academic year ~~in~~ which **IBUS 310** is taken, at an approved institution. Exceptions to this requirement will be granted in cases of hardship. Students in regional cohort tracks meet the overseas study requirement at the cohort partner institution. The curriculum of the International Business major satisfies the Moore School internationalization requirement.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Change Electives:

Electives (0-18 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 128 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Change Major Requirements:

4. Major Requirements (27-39 hours)

Students majoring in International Business are required to study outside the United States for a period of one semester, normally the spring semester of the academic year after which **IBUS 310** is taken, at an approved institution. Exceptions to this requirement will be granted in cases of hardship. Students in regional cohort tracks meet the overseas study requirement at the cohort partner institution. The curriculum of the International Business major satisfies the Moore School internationalization requirement.

A minimum grade of C is required in all major courses.

Major Courses (3 hours)

Course	Title	Credits
IBUS 310	Globalization and Business	3
Total Credit Hours		**3**

Major Electives (12 hours)

Course	Title	Credits
Functional Courses		
Select one of the following:		3
ACCT 506	International Financial Reporting	
~~IBUS 401~~	International Financial Management	
~~IBUS 402~~	International Marketing	
~~IBUS 403~~	International Entrepreneurship	
IBUS 405	International Information Systems	
IBUS 430	Research in International Business	
IBUS 432	The Business Case for Services Offshoring	
MGMT 406	International Human Resource Management	
MGSC 405	International Information Systems	
ECON 503	International Trade Economics	
ECON 504	International Monetary Economics	
ECON 505	International Development Economics	
Thematic Courses		
Select one of the following:		3
IBUS 422	Foreign Market Entry and Growth	
IBUS 423	Cross-Cultural Behavior and Negotiations	
IBUS 424	Exporting and Importing	
IBUS 425	Competitive Strategies in Developing Countries	
IBUS 426	Global Competitive Analysis	
IBUS 427	Global Stakeholder Management	
IBUS 428	Islamic Economics and Finance	
IBUS 429	Comparative Innovation Systems	
IBUS 431	Intercultural Competencies for Working in International Teams	
IBUS 433	Economic Globalization: Leadership and the Transnational Mindset	
IBUS 434	Social Networks and Global Leadership	
IBUS 435	Market Development and Global Strategy	

A minimum grade of C is required in all major courses.

Major Courses (3 hours)

Course	Title	Credits
IBUS 310	Globalization and Business	3
Total Credit Hours		**3**

Major Electives (12 hours)

Course	Title	Credits
Functional Courses		
Select one of the following:		3
ACCT 506	International Financial Reporting	
IBUS 501	International Financial Management	
IBUS 502	International Marketing	
IBUS 503	International Entrepreneurship	
IBUS 405	International Information Systems	
IBUS 430	Research in International Business	
IBUS 432	The Business Case for Services Offshoring	
MGMT 406	International Human Resource Management	
MGSC 405	International Information Systems	
ECON 503	International Trade Economics	
ECON 504	International Monetary Economics	
ECON 505	International Development Economics	
Thematic Courses		
Select one of the following:		3
IBUS 422	Foreign Market Entry and Growth	
IBUS 423	Cross-Cultural Behavior and Negotiations	
IBUS 424	Exporting and Importing	
IBUS 425	Competitive Strategies in Developing Countries	
IBUS 426	Global Competitive Analysis	
IBUS 427	Global Stakeholder Management	
IBUS 428	Islamic Economics and Finance	
IBUS 429	Comparative Innovation Systems	
IBUS 431	Intercultural Competencies for Working in International Teams	
IBUS 433	Economic Globalization: Leadership and the Transnational Mindset	
IBUS 434	Social Networks and Global Leadership	
IBUS 435	Market Development and Global Strategy	
IBUS 519	Social Networks and Global Leadership	
IBUS 521	Ethnographic Methods in International Marketing	
Regional Courses		
Select one of the following:		3
IBUS 541	Business in Latin America [1]	
IBUS 542	Business in Asia [1]	

IBUS 521	Ethnographic Methods in International Marketing	
Regional Courses		
Select one of the following:		3
IBUS 541	Business in Latin America [1]	
IBUS 542	Business in Asia [1]	
IBUS 543	Business in Europe [1]	
IBUS 544	Business in Africa [1]	
Additional Functional or Thematic Course		
Select 3 hours		3
Total Credit Hours		**12**

[1] Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

Second Major (12-24 hours)

The International Business major must be taken in combination with a second major in business.

Regional Cohort Concentrations (15 hours)

Students in each regional concentration of the International Business major meet the regional course requirements with courses dealing primarily in that region.

Competitive Admission

Admission to each concentration of the international business major is highly competitive, and enrollment is limited. Individual limits apply to language selections in the regional concentrations.

Double Major

All students selecting international business as a major, regardless of concentration, are required to complete a second major in business.

~~Foreign Language~~

~~The International Business major requires at least four advanced language courses numbered 300 and above in one foreign language. Students in specific concentrations must meet experiential language program participation requirements that do not equate to specific hours, credits, or course levels. Most students use language courses to fulfill their Minor or Directed Coursework Requirement in the Moore School.~~

Foreign Study

Students are placed at partner schools through a competitive application process. Students in regional cohort concentrations meet the overseas study requirement at the cohort partner institution and spend a minimum of two semesters abroad depending on cohort concentration. Experiential program requirements are outlined in the Program Expectations for each cohort concentration.

Conduct

IBUS 543	Business in Europe [1]	
IBUS 544	Business in Africa [1]	
Additional Functional or Thematic Course		
Select 3 hours		3
Total Credit Hours		**12**

[1] Because one or more of these courses may note offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

Second Major (12-24 hours)

The International Business major must be taken in combination with a second major in business.

Regional Cohort Concentrations (15 hours)

Students in each regional concentration of the International Business major meet the regional course requirements with courses dealing primarily in that region.

Competitive Admission

Admission to each concentration of the international business major is highly competitive, and enrollment is limited. Individual limits apply to language selections in the regional concentrations.

Double Major

All students selecting international business as a major, regardless of concentration, are required to complete a second major in business.

Foreign Study

Students are placed at partner schools through a competitive application process. Students in regional cohort concentrations meet the overseas study requirement at the cohort partner institution and spend a minimum of two semesters abroad depending on cohort concentration. Experiential program requirements are outlined in the Program Expectations for each cohort concentration.

Conduct

Regional Cohort Concentrations have specific behavioral requirements. Those requirements are outlined in the Program Expectations for each cohort.

Chinese Business (15 hours)

The Chinese Business concentration in the International Business major allows the student to focus on International Business activities with China. Students in this concentration meet the foreign language requirement by selecting Chinese as the language of study. The Chinese language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~. The language requirement for Chinese Business is heavily dependent on incoming language level. If students enroll at USC with C7 on their Chinese placement test, they may not be required to participate in the summer language institutes.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~o **IBUS 542**[1]~~
  - ~~o **IBUS 490**[1]~~

[1] ~~Because one or more of these courses may not be offered on campus during the two years that a student may be taking major level courses, these courses are most appropriate for study abroad.~~

Eurasian Business (15 hours) ~~*PENDING*~~

~~*Note: The Eurasian Business Track is awaiting final oversight approval and a completed memorandum of understanding. Accordingly, it is not accepting students at this time*.~~

The Eurasian Business concentration in the International Business major allows the student to focus on International Business activities centered on this region. Students in this concentration meet the foreign language requirement by selecting either Turkish or Russian as the language of study. The language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses ~~from the following~~(6 hours):
  - ~~o **IBUS 542**[1]~~
  - ~~o **IBUS 543**[1]~~

Regional Cohort Concentrations have specific behavioral requirements. Those requirements are outlined in the Program Expectations for each cohort.

Chinese Business (15 hours)

The Chinese Business concentration in the International Business major allows the student to focus on International Business activities with China. Students in this concentration meet the foreign language requirement by selecting Chinese as the language of study. The Chinese language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours. The language requirement for Chinese Business is heavily dependent on incoming language level. If students enroll at USC with C7 on their Chinese placement test, they may not be required to participate in the summer language institutes.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with Asian focus while abroad (6 hours)

Eurasian Business (15 hours)

The Eurasian Business concentration in the International Business major allows the student to focus on International Business activities centered on this region. Students in this concentration meet the foreign language requirement by selecting either Turkish or Russian as the language of study. The language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with focus on the specific region while abroad (6 hours)

- ~~o **IBUS 490**[1]~~

~~[1] Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.~~

European Business (15 hours)

The European Business concentration in the International Business major allows the student to focus on International Business activities with this region. ~~Students in this concentration meet the foreign language requirement by selecting French, German, or Italian as the language of study.~~ The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~o **IBUS 543**[1]~~
  - ~~o **IBUS 490**[1]~~

~~[1] Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.~~

Global Business (15 hours)

The Global Business concentration in the International Business major allows the student to focus on International Business activities within a global context. ~~Students in this concentration meet the foreign language requirement by selecting a modern spoken language in the USC language department as the language of study.~~ The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~o **IBUS 541**[1]~~
  - ~~o One from the following:~~
    - ~~o **IBUS 542**[1]~~
    - ~~o **IBUS 543**[1]~~
    - ~~o **IBUS 544**[1]~~
    - ~~o **IBUS 490**[1]~~

~~[1] Because one or more of these courses may not be offered on campus during the two years that a~~

European Business (15 hours)

The European Business concentration in the International Business major allows the student to focus on International Business activities with this region. Specific languages and functional majors may be required based on study abroad location and partner university. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with a European focus (6 hours)

Global Business (15 hours)

The Global Business concentration in the International Business major allows the student to focus on International Business activities within a global context. Specific languages and functional majors may be required based on study location and partner university. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with focus on the specific study abroad region (6 hours)

~~student may be taking major-level courses, these courses are most appropriate for study abroad.~~

Global Business Innovation (15 hours)

The Global Business Innovation Concentration in the International Business major allows the student to focus on International Business activities within a global context. ~~Students in this concentration meet the foreign language requirement by selecting a modern spoken language in the USC language department as the language of study.~~ The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~**IBUS 542**[1]~~
  - ~~**IBUS 490**[1]~~

[1] ~~Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.~~

Middle East and North Africa (MENA) Business (15 hours)

The Middle East and North Africa (MENA) Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Arabic as the language of study. The Arabic language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~. The language requirement for the MENA program is heavily dependent on incoming language level. If students enroll at USC with A4 on their Arabic placement test, they are not required to participate in both summer language institutes. Only one may be required based on evaluation of proficiency.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~**IBUS 544**[1]~~
  - ~~**IBUS 490**[1]~~

[1] ~~Because one or more of these courses may not be offered on campus during the two years that a student~~

Global Business Innovation (15 hours)

The Global Business Innovation Concentration in the International Business major allows the student to focus on International Business activities within a global context. Specific languages and functional majors may be required based on study location and partner university. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with focus on the specific study abroad region (6 hours)

Middle East and North Africa (MENA) Business (15 hours)

The Middle East and North Africa (MENA) Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Arabic as the language of study. The Arabic language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours. The language requirement for the MENA program is heavily dependent on incoming language level. If students enroll at USC with A4 on their Arabic placement test, they are not required to participate in both summer language institutes. Only one may be required based on evaluation of proficiency.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with focus on the MENA region (6 hours)

~~may be taking major-level courses, these courses are most appropriate for study abroad.~~

South American Business (15 hours)

The South American Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Portuguese or Spanish as the language of study. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the ~~required directed coursework~~.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - ~~o **IBUS 541**[1]~~
  - ~~o **IBUS 490**[1]~~

~~1~~ ~~Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.~~

South American Business (15 hours)

The South American Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Portuguese or Spanish as the language of study. Specific languages and functional majors may be required based on study location and partner university. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the student's selected minor, cognate, or elective hours.

- **IBUS 310**
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses with focus on South America (6 hours)

h. Department of Management

Change to Major/Degree Program – BSBA, Management, 122 to 128 Credit Hours

Existing Program Introduction:

Degree Requirements (122-128 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~21-36~~
4. Major Requirements	~~15-36~~

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~21-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper-level~~

Change Optional Program Introduction:

Degree Requirements (122-128 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	0-30
4. Major Requirements	21-45

Change Program/Supporting Courses Requirements:

3. Program Requirements (0-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other

~~(300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.~~

degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Existing Electives:

Electives (~~3 12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Change Electives:

Electives (0-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (~~15-36~~ hours)

A minimum grade of C is required in all major courses.

Students must choose either the Human Resources and Organizational Leadership Concentration or the Entrepreneurship Concentration.

Concentrations (~~15-36~~ hours)

Human Resources and Organizational Leadership (~~15~~ hours)

Course	Title	Credits
MGMT 374	Strategic Human Resource Management	3
Select one of the following:		3
MGMT 376	Employee Engagement	
MGMT 401	Negotiation and Conflict in the Workplace	
MGMT 402	Managing Teams in the Workplace	
MGMT 403	Leadership in Organizations	
MGMT 408	Diversity and Inclusion	
MGMT 425	Analytics for the Human Resources Professional	
Select three of the following:		9
MGMT 376	Employee Engagement	
MGMT 401	Negotiation and Conflict in the Workplace	
MGMT 402	Managing Teams in the Workplace	
MGMT 403	Leadership in Organizations	
MGMT 404	Compensation and Retention	
MGMT 405	Talent Management	
MGMT 406	International Human Resource Management [1]	

Change Major Requirements:

4. Major Requirements (21-45 hours)

A minimum grade of C is required in all major courses.

Students must choose either the Human Resources and Organizational Leadership Concentration or the Entrepreneurship Concentration.

Concentrations (21-45 hours)

Human Resources and Organizational Leadership (21 hours)

Course	Title	Credits
MGMT 374	Strategic Human Resource Management	3
Select one of the following:		3
MGMT 376	Employee Engagement	
MGMT 401	Negotiation and Conflict in the Workplace	
MGMT 402	Managing Teams in the Workplace	
MGMT 403	Leadership in Organizations	
MGMT 408	Diversity and Inclusion	
MGMT 425	Analytics for the Human Resources Professional	
Select three of the following:		9
MGMT 376	Employee Engagement	
MGMT 401	Negotiation and Conflict in the Workplace	
MGMT 402	Managing Teams in the Workplace	
MGMT 403	Leadership in Organizations	
MGMT 404	Compensation and Retention	
MGMT 405	Talent Management	
MGMT 406	International Human Resource Management [1]	

MGMT 407	Corporate Social Responsibility and Stakeholder Management [1]	
MGMT 408	Diversity and Inclusion	
MGMT 425	Analytics for the Human Resources Professional	
MGMT 431	Intercultural Competencies for Working in International Teams	
MGMT 472	Entrepreneurship and Small Business	
MGMT 476	Collective Bargaining	
MGMT 499	Business Internship in Management	
Total Credit Hours		~~15~~

[1] International-focused course.

MGMT 407	Corporate Social Responsibility and Stakeholder Management [1]	
MGMT 408	Diversity and Inclusion	
MGMT 425	Analytics for the Human Resources Professional	
MGMT 431	Intercultural Competencies for Working in International Teams	
MGMT 472	Entrepreneurship and Small Business	
MGMT 476	Collective Bargaining	
MGMT 499	Business Internship in Management	
Upper-Level Business Electives: Students with a single major in Management must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		**6**
Total Credit Hours		**21**

[1] International-focused course.

Entrepreneurship (27-36 hours)

Course	Title	Credits
MGMT 472	Entrepreneurship and Small Business	3
MGMT 473	Developing and Launching New Ventures	3
MGMT 474	Executing Strategy in New Ventures	3
MGMT 479	Advanced Issues in Entrepreneurship	3
Second Major		
Entrepreneurship requires completion of a second, non-Management major in business.		15-24
Total Credit Hours		**27-36**

[1] International-focused course.

Entrepreneurship (27-36 hours)

Course	Title	Credits
MGMT 472	Entrepreneurship and Small Business	3
MGMT 473	Developing and Launching New Ventures	3
MGMT 474	Executing Strategy in New Ventures	3
MGMT 479	Advanced Issues in Entrepreneurship	3
Second Major		
Entrepreneurship requires completion of a second, non-Management major in business.		15-24
Total Credit Hours		**27-36**

[1] International-focused course.

Business Analytics Concentration (~~12~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine~~ of the following:		~~9~~

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3

ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~**12**~~

~~Note: a maximum of one course can double count within your major(s).~~

Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

i. Department of Management Science

Change to Major/Degree Program – BSBA, Operations and Supply Chain, 123 Credit Hours

Existing Program Introduction:

Degree Requirements (123 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~16~~

Change Optional Program Introduction:

Degree Requirements (123 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	22-25

Existing Program/Supporting Courses Requirements:

Change Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.~~

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Existing Electives:

Electives (~~3-12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay~~

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational

~~courses. Those credit hours must be replaced with additional elective credits.~~

nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (~~16~~ hours)

a minimum grade of C is required in all major courses

Major Courses (16 hours)

Course	Title	Credits
MGSC 485	Business Process Management	3
Select one of the following:		4
MGSC 495	Supply Chain Planning and Execution	
MGSC 497	GSCOM Capstone Project	
Select two of the following:		6
MGSC 487	Global Sourcing Strategies and Application	
MGSC 491	Supply Chain Management	
MGSC 492	Logistics, Transportation and Distribution	
Select one of the following:		3
MGSC 450	Special Topics in Management Science	
MGSC 486	Service Operations Management	
MGSC 488	Innovation and Design	
MGSC 498	Project Management for Business	
Total Credit Hours		**16**

Note: Students must apply for placement into **MGSC 495** and **MGSC 497** through a competitive application process.

Change Major Requirements:

4. Major Requirements (22-25 hours)

A minimum grade of C is required in all major courses.

Major Courses (16 hours)

Course	Title	Credits
MGSC 485	Business Process Management	3
Select one of the following:		4
MGSC 495	Supply Chain Planning and Execution	
MGSC 497	GSCOM Capstone Project	
Select two of the following:		6
MGSC 487	Global Sourcing Strategies and Application	
MGSC 491	Supply Chain Management	
MGSC 492	Logistics, Transportation and Distribution	
Select one of the following:		3
MGSC 450	Special Topics in Management Science	
MGSC 486	Service Operations Management	
MGSC 488	Innovation and Design	
MGSC 489	Sustainable Operations & Supply Chain Management	
MGSC 498	Project Management for Business	
Total Credit Hours		**16**

Note: Students must apply for placement into **MGSC 495** and **MGSC 497** through a competitive application process.

Major Electives (6 hours)

Course	Title	Credits
Upper-Level Business Electives: Students with a single major in Operations and Supply Chain must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 22 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		6
Total Credit Hours		**6**

Business Analytics Concentration (~~12~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine~~ of the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~12~~

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	

MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		**9**

Note: Courses applied in the major may not also fulfill concentration requirements.

j. Department of Marketing

Change to Major/Degree Program – BSBA, Marketing, 122 Credit Hours

Existing Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	~~27-36~~
4. Major Requirements	~~15~~

Existing Program/Supporting Courses Requirements:

3. Program Requirements (~~27-36~~ hours)

Supporting Courses ~~(0-6 hours)~~

~~*must be passed with a grade of C or higher*~~

~~Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.~~

Change Optional Program Introduction:

Degree Requirements (122 hours)

See Darla Moore School of Business for progression requirements and other regulations.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	40
3. Program Requirements	15-30
4. Major Requirements	21-24

Change Program/Supporting Courses Requirements:

3. Program Requirements (15-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)

The program requires 9 hours of course work with international content that may be completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Existing Cognate and Minor Requirements:

~~Minor or Directed Coursework (minimum of 18 hours)~~

~~Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.~~

Change Cognate and Minor Requirements:

Minor or Cognate (12-18 hours) *optional*

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Minors are recognized on the transcript.

Cognates which consist of 4 related courses in a specific field. The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. Cognates do not earn an additional designation on the transcript.

Existing Electives:

Electives (~~3–12~~ hours)

~~All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**). Students are strongly encouraged to take a business section of **UNIV 101** to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.~~

Change Electives:

Electives (6-30 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements, including the optional minor or cognate. Minimum degree requirements must equal 122 hours. Selecting to pursue a minor or cognate, multiple business majors or the business analytics concentration may be used to reduce the total number of electives hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the Darla Moore School of Business.

Options to meet this requirement may include:

- **Pre-Professional coursework** can be applied for students seeking admission to a professional degree program after graduation.
- A maximum of 4 courses towards completion of an **accelerated master's program** if not counted elsewhere in the degree.
- **Directed Electives:** Students may select courses of interest with their advisor. Students are strongly encouraged to take a business section of **UNIV 101**. All directed coursework electives must be passed with a grade of C or better. Directed coursework *may not include* coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. **MATH 111** or **STAT 110**) or 1 credit performance classes.

Existing Major Requirements:

4. Major Requirements (~~15~~ hours)

a minimum grade of C is required in all major courses

Change Major Requirements:

4. Major Requirements (21-24 hours)

A minimum grade of C is required in all major courses.

Major Courses (9 hours)

Course	Title	Credits
MKTG 351	Consumer Behavior	3
MKTG 352	Principles of Marketing Research	3
MKTG 465	Marketing Strategy and Planning	3
Total Credit Hours		**9**

Major Electives (~~6~~ hours)

Course	Title	Credits
Select six hours of the following:		6
MKTG 445	Sales Strategy	
MKTG 446	Sales Automation and Customer Management	
MKTG 447	Pricing Strategy and Analytics	
MKTG 451	Topics in Marketing	
MKTG 454	Business-to-Business Marketing	
MKTG 455	Marketing Communications and Strategy	
MKTG 457	Personal Selling and Sales Management	
MKTG 459	Marketing Channels and Distribution	
MKTG 460	Product and Brand Management	
MKTG 461	Retailing Management	
IBUS 402	International Marketing [1]	
Total Credit Hours		**~~6~~**

[1] International-focused course

Business Analytics Concentration (~~**12**~~ hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Major Courses (9 hours)

Course	Title	Credits
MKTG 351	Consumer Behavior	3
MKTG 352	Principles of Marketing Research	3
MKTG 465	Marketing Strategy and Planning	3
Total Credit Hours		**9**

Major Electives (12 hours)

Course	Title	Credits
Select six hours of the following:		6
MKTG 445	Sales Strategy	
MKTG 446	Sales Automation and Customer Management	
MKTG 447	Pricing Strategy and Analytics	
MKTG 451	Topics in Marketing	
MKTG 454	Business-to-Business Marketing	
MKTG 455	Marketing Communications and Strategy	
MKTG 457	Personal Selling and Sales Management	
MKTG 459	Marketing Channels and Distribution	
MKTG 460	Product and Brand Management	
MKTG 461	Retailing Management	
IBUS 402	International Marketing [1]	
Upper-Level Business Electives: Students with a single major in Marketing must complete additional upper level (300-level or above) business/economics course work (in ACCT, BADM, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to pursue an additional major or a business analytics concentration in place of Upper-Level Business Electives.		6
Total Credit Hours		**12**

[1] International-focused course.

Business Analytics Concentration (9 hours) *optional*

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select ~~nine~~ of the following:		~~9~~
ACCT 404	Accounting Information Systems I	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
Total Credit Hours		~~12~~

the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

Course	Title	Credits
MGSC 394	Data Analytics for Business	3
Select two of the following:		6
ACCT 404	Accounting Information Systems I	
ACCT 475	Integrated Business Processes with Enterprise Systems	
ECON 436	Introductory Econometrics	
FINA 444	Corporate Risk Management	
FINA 469	Investment Analysis and Portfolio Management	
FINA 472	Student-Managed Investments	
IBUS 430	Research in International Business	
MGMT 425	Analytics for the Human Resources Professional	
MGSC 390	Business Information Systems	
MGSC 391	Applied Statistical Modeling	
MGSC 486	Service Operations Management	
MKTG 352	Principles of Marketing Research	
MKTG 447	Pricing Strategy and Analytics	
MKTG 448	Data Science for Business Decision-Making	
Total Credit Hours		9

Note: Courses applied in the major may not also fulfill concentration requirements.

k. Darla Moore School of Business

Change to Minor – Business Administration Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Business Administration Minor

Note: The Business Administration minor is not available to students with majors in the Darla Moore School of Business.

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
ACCT 222	Survey of Accounting [1]	3
ECON 224	Introduction to Economics [2]	3

Change Cognate and Minor Requirements:

Business Administration Minor

Note: The Business Administration minor is not available to students with majors in the Darla Moore School of Business.

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
ACCT 222	Survey of Accounting [1]	3
ECON 224	Introduction to Economics [2]	3

FINA 333	Finance and Markets	3
MGMT 371	Principles of Management	3
MGSC 290	Computer Information Systems in Business	3
MKTG 350	Principles of Marketing	3
Total Credit Hours		18

[1] If ACCT 225 was taken prior to being a business minor, it may be used to satisfy the Accounting requirement.

[2] If ECON 221 and ECON 222 were taken prior to being a business minor, they may be used to satisfy the Economics requirement.

Notes:

1. For students who are not majoring in business but are in a major that requires one of the 300 or 400 level courses included in the Business Administration minor, the course(s) cannot be used to fulfill both the requirements for the major and the requirements for the minor. Where such overlap exists between the requirements of the major and the minor, the student will need to take additional selective coursework to fulfill the 18 hours required by the minor;
2. Prerequisites must be satisfied prior to enrolling in required and selective courses. Consult the Undergraduate Bulletin for list of prerequisites for minors.

FINA 333	Finance and Markets	3
MGMT 371	Principles of Management	3
MGSC 290	Computer Information Systems in Business	3
MKTG 350	Principles of Marketing	3
Total Credit Hours		18

[1] If ACCT 225 was taken prior to being a business minor, it may be used to satisfy the Accounting requirement.

[2] If ECON 221 and ECON 222 were taken prior to being a business minor, they may be used to satisfy the ECON 224 requirement.

Notes:

1. When a student's program requires courses included in the Business Administration minor, that course cannot be used to fulfill both the requirements for the degree program and the requirements for the minor. Where such overlap exists between the requirements of the degree program and the minor, the student will need to take additional coursework to fulfill the 18 hours required by the minor;
2. Prerequisites must be satisfied prior to enrolling in required and selective courses. Consult the Undergraduate Bulletin for list of prerequisites for minors.

Course Changes:

IBUS 310 Globalization and Business

IBUS 521 Ethnographic Methods in International Marketing

3. COLLEGE OF EDUCATION

Course Changes:

EDSE 585 Secondary Internship Seminar I (DL)

EDSE 586 Secondary Internship Seminar II (DL)

4. COLLEGE OF ENGINEERING AND COMPUTING

Program Change:

a. Biomedical Engineering

Change to Major/Degree Program – Bachelor of Science, Biomedical Engineering, 130 Credit Hours

Existing Electives:

Engineering Elective (3 hours)

Students must take 3 credit hours of engineering electives. The engineering elective within the Biomedical Engineering Program may be satisfied by any CSCE course at a 200 level and above, as well as any ECHE, ELCT, or EMCH course at a 300 level and above with the following exceptions: CSCE 205, ECHE 310, ECHE 311, ECHE 320 and EMCH 360.

Additionally, all courses approved as Biomedical Engineering Electives may be used as an Engineering Elective.

Biomedical Engineering Electives (6 hours)

Students must take 6 credit hours of Biomedical Engineering electives. Of these 6 credit hours, at most 3 credit hours may come from **BMEN 499**. A list of acceptable Biomedical Engineering electives is maintained in the Biomedical Engineering office and on its website. These include the following:

Course	Title	Credits
BMEN 342	Infectious Disease & Immunology for Biomedical Engineers	3
BMEN 346	Medical Microbiology for Biomedical Engineers	3
BMEN 389	Special Topics in Biomedical Engineering for Undergraduates	1-3
BMEN 392	Fundamentals of Biochemical Engineering	3
BMEN 499	Independent Research	1-3
BMEN 546	Delivery of Bioactive Agents	3
BMEN 547	Immunoengineering	3
BMEN 548	Cardiovascular System: From Development to Disease	3
BMEN 565	Advanced Biomechanics	3
BMEN 572	Tissue Engineering	3
BMEN 589	Special Topics in Biomedical Engineering	1-3
EMCH 580	Mechanics of Solid Biomaterials	3
EXSC 335	Biomechanics of Human Movement	3
Total Credit Hours		**33-39**

Change Electives:

Engineering Elective (3 hours)

Students must take 3 credit hours of engineering electives. The engineering elective within the Biomedical Engineering Program may be satisfied by any CSCE course at a 200 level and above, as well as any ECHE, ELCT, or EMCH course at a 300 level and above with the following exceptions: CSCE 205, ECHE 310, ECHE 320, and EMCH 360.

Additionally, all courses approved as Biomedical Engineering Electives may be used as an Engineering Elective.

Biomedical Engineering Electives (6 hours)

Students must take 6 credit hours of Biomedical Engineering electives. Of these 6 credit hours, at most 3 credit hours may come from **BMEN 499**. Undergraduate courses that may be used to satisfy this requirement are listed below. In addition, BMEN courses numbered 700 and above may be used to satisfy this requirement, provided the student is admitted to an Accelerated Bachelor's/Graduate Program.

Course	Title	Credits
BMEN 342	Infectious Disease & Immunology for Biomedical Engineers	3
BMEN 346	Medical Microbiology for Biomedical Engineers	3
BMEN 389	Special Topics in Biomedical Engineering for Undergraduates	1-3
BMEN 392	Fundamentals of Biochemical Engineering	3
BMEN 499	Independent Research	1-3
BMEN 532	**Micro/nanofluidics and Lab-on-a-Chip**	3
BMEN 537	**Bio Nano/Micro Electro-Mechanical Systems**	3
BMEN 546	Delivery of Bioactive Agents	3
BMEN 547	Immunoengineering	3
BMEN 548	Cardiovascular System: From Development to Disease	3
BMEN 565	Advanced Biomechanics	3
BMEN 572	Tissue Engineering	3

BMEN 575	**Engineering of Soft Materials**	3
BMEN 589	Special Topics in Biomedical Engineering	1-3
ECHE 430	**Chemical Engineering Kinetics**	3
EMCH 580	Mechanics of Solid Biomaterials	3
EXSC 335	Biomechanics of Human Movement	3

b. Chemical Engineering

Change to Minor – Chemical Engineering Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Minor Requirements (18 Hours)

The Chemical Engineering minor requires:

Course List

Course	Title	Credits
Required Courses (12 hours):		
ECHE 300	Chemical Process Principles	3
ECHE 311	Chemical Engineering Thermodynamics	3
ECHE 320	Chemical Engineering Fluid Mechanics	3
ECHE 440	Separation Process Design	3
Chemical Engineering Minor Electives (6 hours) : 6 additional hours selected from:		6
Minor Electives that do not require MATH 242		
ECHE 372	Introduction to Materials	
ECHE 389	Special Topics in Chemical Engineering	
ECHE 521	Computational Fluid Dynamics for Engineering Applications	
ECHE 571	Corrosion Engineering	
ECHE 572	Polymer Processing	
ECHE 573	Next Energy	
ECHE 589	Special Advanced Topics in Chemical Engineering	
Minor Electives that require MATH 242 as pre-requisite		
ECHE 321	Heat-Flow Analysis	
ECHE 456	Computational Methods for Engineering Applications	
Total Credit Hours		18

Change Cognate and Minor Requirements:

Minor Requirements (18 Hours)

The Chemical Engineering minor requires:

Course List		
Course	**Title**	**Credits**
Required Courses (12 hours):		
ECHE 300	Chemical Process Principles	3
ECHE 311	Chemical Engineering Thermodynamics	3
ECHE 320	Chemical Engineering Fluid Mechanics	3
or ENCP 360	**Fluid Mechanics**	
ECHE 440	Separation Process Design	3
Chemical Engineering Minor Electives (6 hours) : 6 additional hours selected from:		6
Minor Electives that do not require additional pre-requisites		
ECHE 372	Introduction to Materials	
ECHE 389	Special Topics in Chemical Engineering	
ECHE 521	Computational Fluid Dynamics for Engineering Applications	
ECHE 571	Corrosion Engineering	
ECHE 572	Polymer Processing	
ECHE 573	Next Energy	
ECHE 575	**Engineering of Soft Materials**	
ECHE 589	Special Advanced Topics in Chemical Engineering	
Minor Electives that require additional pre-requisite(s)		
ECHE 321	Heat-Flow Analysis[1]	
ECHE 430	**Chemical Engineering Kinetics[2]**	
ECHE 456	Computational Methods for Engineering Applications[3]	
ECHE 550	**Chemical-Process Dynamics and Control[4]**	
Total Credit Hours		18

1. Requires MATH 242 as a pre-requisite, and ECHE 456 as a pre-requisite or co-requisite

2. Requires ECHE 321 as a pre-requisite or co-requisite, or BMEN 354 as a pre-requisite.

3. Requires MATH 242 as a pre-requisite or co-requisite

4. Requires both MATH 242 and ECHE 456 as a pre-requisites

c. Chemical Engineering

Change to Major/Degree Program – BSE, Chemical Engineering, 131 to 138 Credit Hours

Existing College Requirements:

No change is proposed.

Existing Program/Supporting Courses Requirements:

No change is proposed.

Existing Cognate and Minor Requirements:

No change is proposed.

Existing Electives:

NOTE: Only the elective sections that are being changed are listed.

Chemistry Electives (6 hours)

A list of acceptable Chemistry Elective courses is maintained in the department office and on its website. These include the following:

Course List

Course	Title	Credits
CHEM 321	Quantitative Analysis	3
CHEM 322	Analytical Chemistry	3
CHEM 511	Inorganic Chemistry	3
CHEM 533	Comprehensive Organic Chemistry III	3
CHEM 541	Physical Chemistry	3
CHEM 542	Physical Chemistry	3
CHEM 545	Physical Biochemistry	3
CHEM 550	Biochemistry	3
CHEM 555	Biochemistry/Molecular Biology I	3
CHEM 556	Biochemistry/Molecular Biology II	3
CHEM 621	Instrumental Analysis	3

Change Electives:

NOTE: Only the elective sections that are being changed are listed. New approved elective courses are in Bold.

Chemistry Elective (3 hours)

A list of acceptable Chemistry Elective courses is maintained in the department office and on its website. These include the following:

Course List		
Course	Title	Credits
CHEM 321	Quantitative Analysis	3
CHEM 322	Analytical Chemistry	3
CHEM 511	Inorganic Chemistry	3
CHEM 533	Comprehensive Organic Chemistry III	3
CHEM 541	Physical Chemistry	3
CHEM 542	Physical Chemistry	3
CHEM 545	Physical Biochemistry	3

CHEM 622	Forensic Analytical Chemistry	3
CHEM 623	Introductory Environmental Chemistry	3
CHEM 624	Aquatic Chemistry	3
CHEM 633	Introduction to Polymer Synthesis	3
CHEM 643	Computational Chemistry	3
CHEM 644	Materials Chemistry	3
CHEM 655	Metabolic Biochemistry of Human Disease	3

Engineering Electives (6 hours)

A list of acceptable Engineering Elective courses is maintained in the department office and on its website. The list includes the following:

Course List

Course	Title	Credits
Select one of the following:		3
ENCP 200	Statics	
ECIV 200	Statics	
EMCH 200	Statics	
ENCP 201	Introduction to Applied Numerical Methods	3
or EMCH 201	Introduction to Applied Numerical Methods	
Select one of the following:		3
ENCP 210	Dynamics	
ECIV 210	Dynamics	
EMCH 310	Dynamics	
Select one of the following:		3
ENCP 260	Introduction to the Mechanics of Solids	
ECIV 220	Mechanics of Solids	
EMCH 260	Solid Mechanics	
ENCP 330	Introduction to Vibrations	3
or EMCH 330	Mechanical Vibrations	
ENCP 440	Sustainable Development in Engineering	3
ENCP 460	Special Topics in Engineering and Computing	1-6
ENCP 481	Project Management	1
ENCP 499	Interdisciplinary Technical Elective	1-3
ENCP 540	Environmentally Conscious Manufacturing	3
BMEN 240	Cellular and Molecular Biology with Engineering Applications	4
BMEN 271	Introduction to Biomaterials	3

CHEM 550	Biochemistry	3
CHEM 555	Biochemistry/Molecular Biology I	3
CHEM 556	Biochemistry/Molecular Biology II	3
CHEM 621	Instrumental Analysis	3
CHEM 622	Forensic Analytical Chemistry	3
CHEM 623	Introductory Environmental Chemistry	3
CHEM 624	Aquatic Chemistry	3
CHEM 633	Introduction to Polymer Synthesis	3
CHEM 643	Computational Chemistry	3
CHEM 644	Materials Chemistry	3
CHEM 655	Metabolic Biochemistry of Human Disease	3

Engineering Electives (6 hours)

Students must take 6 credit hours of engineering electives. Undergraduate courses that may be used to satisfy this requirement are listed below. In addition, ECHE courses numbered 700 and above may be used to satisfy this requirement, provided the student is admitted to an Accelerated Bachelor's/Graduate Program.

Course List		
Course	Title	Credits
Select one of the following:		3
ENCP 200	Statics	
ECIV 200	Statics	
EMCH 200	Statics	
ENCP 201	Introduction to Applied Numerical Methods	3
or EMCH 201	Introduction to Applied Numerical Methods	
Select one of the following:		3
ENCP 210	Dynamics	
ECIV 210	Dynamics	
EMCH 310	Dynamics	
Select one of the following:		3
ENCP 260	Introduction to the Mechanics of Solids	
ECIV 220	Mechanics of Solids	
EMCH 260	Solid Mechanics	
ENCP 330	Introduction to Vibrations	3

BMEN 290	Thermodynamics of Biomolecular Systems	3
BMEN 300 and above, except BMEN 301 and BMEN 303		
CSCE 211	Digital Logic Design	3
CSCE 212	Introduction to Computer Architecture	3
CSCE 240	Advanced Programming Techniques	3
CSCE 274	Robotic Applications and Design	3
CSCE 313	Embedded Systems	3
CSCE 317	Computer Systems Engineering	3
CSCE 520	Database System Design	3
CSCE 567	Visualization Tools	3
CSCE 582	Bayesian Networks and Decision Graphs	3
CSCE 587	Big Data Analytics	3
ECHE 202	Exploring the Chemical Engineering Workplace	1
or ECHE 203	Research in Chemical Engineering	
ECHE 372	Introduction to Materials	3
ECHE 389	Special Topics in Chemical Engineering	3
ECHE 456	Computational Methods for Engineering Applications	3
ECHE 497	Thesis Preparation	1-3
ECHE 499	Special Problems	1-3
ECHE 520	Chemical Engineering Fluid Mechanics	3
ECHE 521	Computational Fluid Dynamics for Engineering Applications	3
ECHE 571	Corrosion Engineering	3
ECHE 572	Polymer Processing	3
ECHE 573	Next Energy	3
ECHE 574	Combustion	3
ECHE 589	Special Advanced Topics in Chemical Engineering	3
ELCT 220	Electrical Engineering for Non-Majors	3
ELCT 221	Circuits	3
ELCT 222	Signals and Systems	3
ELCT 300 and above		
ECIV 300 and above, except ECIV 360 [1]		
EMCH 300 and above, except EMCH 354 and EMCH 360 [2]		

[1] Except ECIV 360

[2] Except EMCH 354 and EMCH 360

or EMCH 330	Mechanical Vibrations	
ENCP 440	Sustainable Development in Engineering	3
ENCP 460	Special Topics in Engineering and Computing	1-6
ENCP 481	Project Management	1
ENCP 499	Interdisciplinary Technical Elective	1-3
ENCP 540	Environmentally Conscious Manufacturing	3
BMEN 212	**Fundamentals of Biomedical Systems**	**3**
BMEN 240	Cellular and Molecular Biology with Engineering Applications	4
BMEN 263	**Introduction to Biomechanics**	**3**
BMEN 271	Introduction to Biomaterials	3
BMEN 290	Thermodynamics of Biomolecular Systems	3
BMEN 300 and above, except BMEN 301 and BMEN 303		
CSCE 211	Digital Logic Design	3
CSCE 212	Introduction to Computer Architecture	3
CSCE 240	Advanced Programming Techniques	3
CSCE 274	Robotic Applications and Design	3
CSCE 313	Embedded Systems	3
CSCE 317	Computer Systems Engineering	3
CSCE 520	Database System Design	3
CSCE 567	Visualization Tools	3
CSCE 582	Bayesian Networks and Decision Graphs	3
CSCE 587	Big Data Analytics	3
ECHE 202	Exploring the Chemical Engineering Workplace	1
or ECHE 203	Research in Chemical Engineering	
ECHE 372	Introduction to Materials	3
ECHE 389	Special Topics in Chemical Engineering	3
ECHE 497	Thesis Preparation	1-3
ECHE 499	Special Problems	1-3
ECHE 520	Chemical Engineering Fluid Mechanics	3

Technical Electives (9 hours)

A list of acceptable Technical Elective courses is maintained in the department office and on its website. The list includes the following:

Course List		
Course	Title	Credits
All Engineering Electives		
Chemistry Electives		
Chemistry Lab Electives		
ENCP 102	Introduction to Engineering II	3
or EMCH 111	Introduction to Computer-Aided Design	
MATH 374	Discrete Structures	3
MATH 500 and above		
STAT 500 and above, except STAT 541 and STAT 591		
BIOL 101	Biological Principles I	3
BIOL 101L	Biological Principles I Laboratory	1
BIOL 102	Biological Principles II	3
BIOL 102L	Biological Principles II Laboratory	1
BIOL 120	Human Biology	3
BIOL 120L	Laboratory in Human Biology	1
BIOL 200 and above		3
ENVR 231	Introduction to Sustainability Management and Leadership	3-4
ENVR 321	Environmental Pollution and Health	3
ENVR 331	Integrating Sustainability	3
GEOL 300 and above		
MSCI 300 and above		
PHYS 300 and above		
CSCE 145	Algorithmic Design I	4
CSCE 146	Algorithmic Design II	4
CSCE 210	Computer Hardware Foundations	3
CSCE 215	UNIX/Linux Fundamentals	1
CSCE 350	Data Structures and Algorithms	3
ECHE 521	Computational Fluid Dynamics for Engineering Applications	3
ECHE 571	Corrosion Engineering	3
ECHE 572	Polymer Processing	3
ECHE 573	Next Energy	3
ECHE 574	Combustion	3
ECHE 575	**Engineering of Soft Matter**	**3**
ECHE 589	Special Advanced Topics in Chemical Engineering	3
ELCT 220	Electrical Engineering for Non-Majors	3
ELCT 221	Circuits	3
ELCT 222	Signals and Systems	3
ELCT 300 and above		
ECIV 300 and above, except ECIV 360 [1]		
EMCH 300 and above, except EMCH 354 and EMCH 360 [2]		

[1]	Except ECIV 360
[2]	Except EMCH 354 and EMCH 360

Liberal Arts Electives (3 hours)

At least one course used to satisfy the Liberal Arts Elective or a Carolina Core AIU, CMS, GHS, GSS, VSR requirement must be either at

1. the 300-level or above and in the same field of study as one of the other courses, or
2. 270 or above in the field of ENGL. Liberal Arts Electives include the following:

Technical Electives (12 hours)

A list of acceptable Technical Elective courses is maintained in the department office and on its website. The list includes the following:

Course List		
Course	Title	Credits
All Engineering Electives		
Chemistry Electives		
Chemistry Lab Electives		
ENCP 102	Introduction to Engineering II	3
or EMCH 111	Introduction to Computer-Aided Design	
MATH 300	**Transition to Advanced Mathematics**	**3**
MATH 374	Discrete Structures	3
MATH 500 and above		
STAT 500 and above, except STAT 541 and STAT 591		
BIOL 101	Biological Principles I	3
BIOL 101L	Biological Principles I Laboratory	1
BIOL 102	Biological Principles II	3

Course List		
Course	Title	Credits
All approved Carolina Core Courses for AIU, CMS, GFL, GHS, GSS, and VSR		
AERO 401	National Security/Leadership Responsibilities/Commissioning Preparation (POC cadets only)	4
AERO 402	National Security / Leadership Responsibilities / Commissioning Preparation II (POC cadets only)	4
AFAM 201	Introduction to African American Studies: Social and Historical Foundations	3
AFAM 202	Introduction to African-American Studies	3
AFAM 335	The American Civil Rights Movement	3
ANTH 101	Primates, People, and Prehistory	3
ANTH 102	Understanding Other Cultures	3
ANTH 219	Great Discoveries in Archaeology	3
ANTH 300 and above except ANTH 399, ANTH 501		
ARTE 101	Introduction to Art	3
ARTH 105	History of Western Art I	3
ARTH 106	History of Western Art II	3
ARTH 300 and above except ARTH 399, ARTH 498, ARTH 499, ARTH 599		
ARMY 406	American Military Experience (Army cadets only)	3
CPLT any course; courses CPLT 270 and above count as 300-level		
DANC 101	Dance Appreciation	3
ECON 221	Principles of Microeconomics	3
ECON 222	Principles of Macroeconomics	3
ECON 224	Introduction to Economics	3
ECON 300 and above except ECON 399, ECON 421, ECON 499, ECON 524, ECON 595		
ENGL any course above 102, except 460 through 467		
Foreign languages 121 Elementary		
BIOL 102L	Biological Principles II Laboratory	1
BIOL 120	Human Biology	3
BIOL 120L	Laboratory in Human Biology	1
BIOL 200 and above		3
ENVR 231	Introduction to Sustainability Management and Leadership	3-4
ENVR 321	Environmental Pollution and Health	3
ENVR 331	Integrating Sustainability	3
GEOL 300 and above		
MSCI 300 and above		
PHYS 300 and above		
CSCE 145	Algorithmic Design I	4
CSCE 146	Algorithmic Design II	4
CSCE 210	Computer Hardware Foundations	3
CSCE 215	UNIX/Linux Fundamentals	1
CSCE 350	Data Structures and Algorithms	3
ACCT 222	**Survey of Accounting 1**	**3**
FINA 333	**Finance and Markets**	**3**
MGMT 371	**Principles of Management**	**3**
MGSC 290	**Computer Information Systems in Business**	**3**
MKTG 350	**Principles of Marketing**	**3**

Career Elective (3 hours)

Course List		
Course	Title	Credits
All approved Carolina Core Courses for AIU, CMS, GFL, GHS, GSS, and VSR		
All Engineering Electives		
All Chemistry Electives		
All Chemistry Lab Electives		
All Technical Electives		
AERO 401	National Security/Leadership Responsibilities/Commissioning Preparation (POC cadets only)	4
AERO 402	National Security / Leadership Responsibilities / Commissioning Preparation II (POC cadets only)	4
AFAM 201	Introduction to African American Studies: Social and Historical Foundations	3
AFAM 202	Introduction to African-American Studies	3

Foreign languages 300 and above except intensive reading courses or courses about teaching		
GEOG 103	Introduction to Geography	3
GEOG 121	Globalization and World Regions	3
GEOG 300 and above except GEOG 399, GEOG 595		
HIST any course		
LASP 301	Interdisciplinary Study of Latin America	3
LASP 311	Latin American Cultures	3
LASP 315	South American Indian Cultures	3
LASP 322	Mesoamerican Prehistory	3
LASP 331	Geography of Latin America	3
LASP 351	Politics and Governments of Latin America	3
LASP 398	Special Topics in Latin American Studies	3
LASP 425	Prehistoric Archaeology of South America	3
LASP 451	International Relations of Latin America	3
LING 300	Introduction to Language Sciences	3
LING 340	Language, Culture, and Society	3
LING 405	Topics in Linguistics	3
LING 540	Topics in Language and Culture	3
LING 541	Language and Gender	3
LING 542	Research in Language Conflict and Language Rights	3
LING 543	Discourse, Gender, and Politics of Emotion	3
LING 545	Anthropological Approaches to Narrative and Performance	3
LING 567	Psychology of Language	3
LING 600	Survey of Linguistics	3
MUSC 110	Introduction to Music	3
MUSC 140	Jazz and American Popular Music	3
MUSC 145	Introduction to Music Literature	3
MUSC any music history course at or above 300-level		

AFAM 335	The American Civil Rights Movement	3
ANTH 101	Primates, People, and Prehistory	3
ANTH 102	Understanding Other Cultures	3
ANTH 219	Great Discoveries in Archaeology	3
ANTH 300 and above except ANTH 399, ANTH 501		
ARTE 101	Introduction to Art	3
ARTH 105	History of Western Art I	3
ARTH 106	History of Western Art II	3
ARTH 300 and above except ARTH 399, ARTH 498, ARTH 499, ARTH 599		
ARMY 406	American Military Experience (Army cadets only)	3
CPLT any course; courses CPLT 270 and above count as 300-level		
DANC 101	Dance Appreciation	3
ECON 221	Principles of Microeconomics	3
ECON 222	Principles of Macroeconomics	3
ECON 224	Introduction to Economics	3
ECON 300 and above except ECON 399, ECON 421, ECON 499, ECON 524, ECON 595		
ENGL any course above 102, except 460 through 467		
Foreign languages 121 Elementary		
Foreign languages 300 and above except intensive reading courses or courses about teaching		
GEOG 103	Introduction to Geography	3
GEOG 121	Globalization and World Regions	3
GEOG 300 and above except GEOG 399, GEOG 595		
HIST any course		
LASP 301	Interdisciplinary Study of Latin America	3
LASP 311	Latin American Cultures	3
LASP 315	South American Indian Cultures	3
LASP 322	Mesoamerican Prehistory	3
LASP 331	Geography of Latin America	3
LASP 351	Politics and Governments of Latin America	3
LASP 398	Special Topics in Latin American Studies	3
LASP 425	Prehistoric Archaeology of South America	3

NAVY 303	Evolution of the Art of War (Midshipmen only)	3
PHIL 102	Introduction to Philosophy	3
PHIL 300 and above		
PSYC 101	Introduction to Psychology	3
PSYC 103	Psychology of Adjustment	3
PSYC 300 and above except PSYC 570 to PSYC 599		
POLI any course except POLI 379, POLI 399		
RELG any course		
SOCY 101	Introductory Sociology	3
SOCY 300 and above except 399		
THEA 200	Understanding and Appreciation of Theatre	3
THEA 561	History of the Theatre I	3
THEA 562	History of the Theatre II	3
WGST 112	Introduction to Women's and Gender Studies	3
WGST 113	Women's Health	3
WGST 207	Gender and Culture	3
WGST 300	Sex and Gender	3
WGST 301	Psychology of Marriage	3
WGST 304	Race, Class, Gender, and Sexuality	3
WGST 305	Sociology of Families	3
WGST 307	Feminist Theory	3
WGST 308	African-American Feminist Theory	3
WGST 310	Psychology of Women	3
WGST 351	The Family in Cross-Cultural Perspective	3
WGST 352	Gender and Politics	3
WGST 430	Topics in Women's Studies	1-3
WGST 454	Women and the Law	3
WGST 525	The Psychology of the Midlife Woman	3

LASP 451	International Relations of Latin America	3
LING 300	Introduction to Language Sciences	3
LING 340	Language, Culture, and Society	3
LING 405	Topics in Linguistics	3
LING 540	Topics in Language and Culture	3
LING 541	Language and Gender	3
LING 542	Research in Language Conflict and Language Rights	3
LING 543	Discourse, Gender, and Politics of Emotion	3
LING 545	Anthropological Approaches to Narrative and Performance	3
LING 567	Psychology of Language	3
LING 600	Survey of Linguistics	3
MUSC 110	Introduction to Music	3
MUSC 140	Jazz and American Popular Music	3
MUSC 145	Introduction to Music Literature	3
MUSC any music history course at or above 300-level		
NAVY 303	Evolution of the Art of War (Midshipmen only)	3
PHIL 102	Introduction to Philosophy	3
PHIL 300 and above		
PSYC 101	Introduction to Psychology	3
PSYC 103	Psychology of Adjustment	3
PSYC 300 and above except PSYC 570 to PSYC 599		
POLI any course except POLI 379, POLI 399		
RELG any course		
SOCY 101	Introductory Sociology	3
SOCY 300 and above except 399		
THEA 200	Understanding and Appreciation of Theatre	3
THEA 561	History of the Theatre I	3
THEA 562	History of the Theatre II	3
UNIV 101	**The Student in the University**	**3**
WGST 112	Introduction to Women's and Gender Studies	3
WGST 113	Women's Health	3
WGST 207	Gender and Culture	3
WGST 300	Sex and Gender	3
WGST 301	Psychology of Marriage	3
WGST 304	Race, Class, Gender, and Sexuality	3

WGST 554	Women and Crime	3
WGST 555	Language and Gender	3

WGST 305	Sociology of Families	3
WGST 307	Feminist Theory	3
WGST 308	African-American Feminist Theory	3
WGST 310	Psychology of Women	3
WGST 351	The Family in Cross-Cultural Perspective	3
WGST 352	Gender and Politics	3
WGST 430	Topics in Women's Studies	1-3
WGST 454	Women and the Law	3
WGST 525	The Psychology of the Midlife Woman	3
WGST 554	Women and Crime	3
WGST 555	Language and Gender	3

Existing Major Requirements:

NOTE: Only the Concentrations being changed are listed

Concentration in Biomolecular Engineering (15 hours)

Course List

Course	Title	Credits
BIOL 302	Cell and Molecular Biology [1]	3
or BMEN 240	Cellular and Molecular Biology with Engineering Applications	
CHEM 550	Biochemistry	3
Select one of the following:		3
BMEN 271	Introduction to Biomaterials	
BMEN 391	Kinetics in Biomolecular Systems	
Select two of the following:		6
BIOL 303	Fundamental Genetics	
BIOL 460	Advanced Human Physiology	
BIOL 505	Developmental Biology	
BIOL 530	Histology	
BIOL 665	Human Molecular Genetics	
BMEN 271	Introduction to Biomaterials	
BMEN 321	Biomonitoring and Electrophysiology	
BMEN 342	Infectious Disease & Immunology for Biomedical Engineers	
BMEN 345	Human Anatomy and Physiology for Biomedical Engineers	
BMEN 346	Medical Microbiology for Biomedical Engineers	

Change Major Requirements:

NOTE: Only the Concentrations being changed are listed, with new approved elective courses in Bold.

Concentration in Biomolecular Engineering (15 hours)

Course List		
Course	Title	Credits
BIOL 302	Cell and Molecular Biology [1]	3
or BMEN 240	Cellular and Molecular Biology with Engineering Applications	
CHEM 550	Biochemistry	3
Select one of the following:		3
BMEN 271	Introduction to Biomaterials	
BMEN 391	Kinetics in Biomolecular Systems	
Select two of the following:		6
BIOL 303	Fundamental Genetics	
BIOL 460	Advanced Human Physiology	
BIOL 505	Developmental Biology	
BIOL 530	Histology	
BIOL 665	Human Molecular Genetics	
BMEN 271	Introduction to Biomaterials	
BMEN 321	Biomonitoring and Electrophysiology	
BMEN 342	Infectious Disease & Immunology for Biomedical Engineers	

BMEN 389	Special Topics in Biomedical Engineering for Undergraduates	
BMEN 391	Kinetics in Biomolecular Systems	
BMEN 392	Fundamentals of Biochemical Engineering	
BMEN 499	Independent Research	
BMEN 546	Delivery of Bioactive Agents	
BMEN 547	Immunoengineering	
BMEN 548	Cardiovascular System: From Development to Disease	
BMEN 565	Advanced Biomechanics	
BMEN 572	Tissue Engineering	
BMEN 589	Special Topics in Biomedical Engineering [1]	
Total Credit Hours		15

[1] BIOL 101 and BIOL 102 are prerequisites for BIOL 302. Multiple distinct 389/589 courses may be counted.

Concentration in Interdisciplinary Engineering (15 hours)

Course List		
Course	Title	Credits
Select five courses from the following:		15
EMCH 200	Statics	
or ECIV 200	Statics	
or ENCP 200	Statics	
EMCH 220	Mechanical Engineering Fundamentals for Non-Majors	
EMCH 260	Solid Mechanics	
EMCH 310	Dynamics	
MATH 526	Numerical Linear Algebra	
STAT 509	Statistics for Engineers	
CSCE 206	Scientific Applications Programming	
or ECHE 456	Computational Methods for Engineering Applications	
ELCT 220	Electrical Engineering for Non-Majors	
or ELCT 221	Circuits	
ECHE 372	Introduction to Materials	
or EMCH 371	Materials	
CHEM 621	Instrumental Analysis	
Total Credit Hours		15

BMEN 345	Human Anatomy and Physiology for Biomedical Engineers	
BMEN 346	Medical Microbiology for Biomedical Engineers	
BMEN 389	Special Topics in Biomedical Engineering for Undergraduates	
BMEN 391	Kinetics in Biomolecular Systems	
BMEN 392	Fundamentals of Biochemical Engineering	
BMEN 499	Independent Research	
BMEN 546	Delivery of Bioactive Agents	
BMEN 547	Immunoengineering	
BMEN 548	Cardiovascular System: From Development to Disease	
BMEN 565	Advanced Biomechanics	
BMEN 572	Tissue Engineering	
BMEN 589	Special Topics in Biomedical Engineering [1]	
ECHE 575	**Engineering of Soft Materials**	
Total Credit Hours		15

[1] BIOL 101 and BIOL 102 are prerequisites for BIOL 302. Multiple distinct 389/589 courses may be counted.

Concentration in Interdisciplinary Engineering (15 hours)

Course List		
Course	Title	Credits
Select five courses from the following:		15
EMCH 200	Statics	
or ECIV 200	Statics	
or ENCP 200	Statics	
EMCH 260	Solid Mechanics	
EMCH 310	Dynamics	
MATH 526	Numerical Linear Algebra	
STAT 509	Statistics for Engineers	
CSCE 206	Scientific Applications Programming	

Concentration in Numerical Methods and Computing (15 hours)

Course List		
Course	Title	Credits
Select one of the following:		3
EMCH 201	Introduction to Applied Numerical Methods	
ENCP 201	Introduction to Applied Numerical Methods	
Select four of the following:		12
CSCE 145	Algorithmic Design I	
CSCE 146	Algorithmic Design II	
MATH 374	Discrete Structures	
or MATH 574	Discrete Mathematics I	
MATH (500-level or higher)		
GEOL 575	Numerical Modeling for Earth Science Applications	
EMCH 501	Engineering Analysis I	
ECHE 589	Special Advanced Topics in Chemical Engineering (depending on topic coverage, multiple versions possible)	
Total Credit Hours		15

or ECHE 456	Computational Methods for Engineering Applications	
ELCT 220	Electrical Engineering for Non-Majors	
or ELCT 221	Circuits	
ECHE 372	Introduction to Materials	
or EMCH 371	Materials	
CHEM 621	Instrumental Analysis	
Total Credit Hours		15

Concentration in Numerical Methods and Computing (15 hours)

Course List		
Course	Title	Credits
Select one of the following:		3
EMCH 201	Introduction to Applied Numerical Methods	
ENCP 201	Introduction to Applied Numerical Methods	
Select four of the following:		12
CSCE 145	Algorithmic Design I	
CSCE 146	Algorithmic Design II	
MATH 374	Discrete Structures	
or MATH 574	Discrete Mathematics I	
MATH (500-level or higher)		
GEOL 575	Numerical Modeling for Earth Science Applications	
EMCH 501	Engineering Analysis I	
ECHE 521	**Computational Fluid Dynamics for Engineering Applications**	
ECHE 589	Special Advanced Topics in Chemical Engineering (depending on topic coverage, multiple versions possible)	
Total Credit Hours		15

d. Computer Science and Engineering

Change to Minor – Computer Science Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Change Cognate and Minor Requirements:

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
Required Courses		
CSCE 145	Algorithmic Design I	4
CSCE 146	Algorithmic Design II	4
CSCE 215	UNIX/Linux Fundamentals	1
Additional Courses:		
Select any 9 credit hours of the following:		9
All CSCE courses numbered 201 or above (except CSCE 204, CSCE 205, and CSCE 206)		
MATH 174	Discrete Mathematics for Computer Science	
or MATH 374	Discrete Structures	
or MATH 574	Discrete Mathematics I	
Total Credit Hours		18

Note: Students cannot receive credit for both CSCE 210 and CSCE 212.

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
Required Courses		
CSCE 145	Algorithmic Design I	4
CSCE 146	Algorithmic Design II	4
CSCE 215	UNIX/Linux Fundamentals	1
Additional Courses:		
Select any 9 credit hours of the following:		9
All CSCE courses numbered 201 or above (except CSCE 204, CSCE 205, and CSCE 206)		
MATH 174	Discrete Mathematics for Computer Science	
or MATH 374	Discrete Structures	
or MATH 574	Discrete Mathematics I	
Total Credit Hours		18

Note: Students cannot receive credit for both CSCE 210 and CSCE 212.

Students majoring in Computer Engineering or Computer Information Systems may not earn the Computer Science minor.

e. Civil Engineering

Change to Major/Degree Program – BSE, Civil Engineering, 124 to 142 Credit Hours

Existing Program Introduction:

Degree Requirements (124-142 hours)

See *College of Engineering and Computing* for progression requirements and special academic opportunities.

Program of Study

Requirements	*Credit Hours*
1. Carolina Core	34-46
2. College Requirements	0
3. Program Requirements	65-71
4. Major Requirements	25
Program Summary	

Founding Documents Requirement

All undergraduate students must take a 3-credit course or its equivalent with a passing grade in the subject areas of History, Political Science, or African American Studies that covers the founding documents including the United State

Constitution, the Declaration of Independence, the Emancipation Proclamation and one or more documents that are foundational to the African American Freedom struggle, and a minimum of five essays from the Federalist papers. This course may count as a requirement in any part of the program of study including the Carolina Core, the major, minor or cognate, or as a general elective. Courses that meet this requirement are listed *here*.

Existing Program/Supporting Courses Requirements:

Supporting Courses (65-71 hours)

Course List

Course	Title	Credits
Foundational Required Courses		
MATH 242	Elementary Differential Equations	3
STAT 509	Statistics for Engineers	3
or STAT 511	Probability	
Foundational Math Elective		3
Select one of the following:		
MATH 241	Vector Calculus	
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
Foundational Math/Science Elective		3-4
Select one of the following:		
CHEM 112 & 112L	General Chemistry II and General Chemistry II Lab	
PHYS 212 & 212L	Essentials of Physics II and Essentials of Physics II Lab	
MATH 241	Vector Calculus	
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
Lower Division Engineering		
ECIV 101	Introduction to Civil Engineering	3
or ENCP 101	Introduction to Engineering I	
ECIV 111	Introduction to Engineering Graphics and Visualization	3
or ENCP 102	Introduction to Engineering II	
ECIV 200	Statics	3
or ENCP 200	Statics	
ECIV 201	Computational Methods for Civil Engineering	3
or ENCP 201	Introduction to Applied Numerical Methods	
ECIV 220	Mechanics of Solids	3
or ENCP 260	Introduction to the Mechanics of Solids	
ECIV 360	Fluid Mechanics	3
or ENCP 360	Fluid Mechanics	

Change Program/Supporting Courses Requirements:

Supporting Courses (65-71 hours)

Course List

Course	*Title*	*Credits*
Foundational Required Courses		6
MATH 242	Elementary Differential Equations	
STAT 509	Statistics for Engineers	
or STAT 511	Probability	
Foundational Math Elective		3
Select one from the following:		
MATH 241	Vector Calculus	
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
Foundational Math/Science Elective		3-4
Select one from the following:		
Additional course from Foundational Math Elective category		
CHEM 112 & 112L	General Chemistry II and General Chemistry II Lab	
PHYS 212 & 212L	Essentials of Physics II and Essentials of Physics II Lab	
Lower Division Engineering		18
ECIV 101	Introduction to Civil Engineering	
or ENCP 101	Introduction to Engineering I	
ECIV 111	Introduction to Engineering Graphics and Visualization	
or ENCP 102	Introduction to Engineering II	
ECIV 200	Statics	
or ENCP 200	Statics	
ECIV 201	Computational Methods for Civil Engineering	
or ENCP 201	Introduction to Applied Numerical Methods	
ECIV 220	Mechanics of Solids	
or ENCP 260	Introduction to the Mechanics of Solids	
ECIV 360	Fluid Mechanics	
or ENCP 360	Fluid Mechanics	
ECIV Laboratory Courses		2
Select two from the following:		
ECIV 303L	Civil Engineering Materials Laboratory	
ECIV 330L	Geotechnical Laboratory	
ECIV 340L	Transportation Engineering Laboratory	
ECIV 350L	Introduction to Environmental Engineering Laboratory	
ECIV 362L	Introduction to Water Resources Engineering Laboratory	

ECIV Laboratory Courses		
Select two of the following:		2
ECIV 303L	Civil Engineering Materials Laboratory	
ECIV 330L	Geotechnical Laboratory	
ECIV 340L	Transportation Engineering Laboratory	
ECIV 350L	Introduction to Environmental Engineering Laboratory	
ECIV 362L	Introduction to Water Resources Engineering Laboratory	
ECIV Distribution Courses		
Select one course from four of the following five areas:		12
Environmental Engineering		
ECIV 551	Elements of Water and Wastewater Treatment	
ECIV 555	Principles of Municipal Solid Waste Engineering	
ECIV 556	Air Pollution Control Engineering	
ECIV 557	Sustainable Construction for Engineers	
ECIV 558	Environmental Engineering Process Modeling	
Structural Engineering		
ECIV 325	Structural Steel Design	
ECIV 327	Reinforced Concrete Design	
Transportation Engineering		
ECIV 540	Transportation Systems Planning	
ECIV 541	Highway Design	
ECIV 542	Traffic Engineering	
ECIV 580	Railway Engineering I	
Geotechnical Engineering		
ECIV 530	Foundation Analysis and Design	
ECIV 531	Design of Earth Structures	
Water Resources Engineering		
ECIV 560	Open Channel Hydraulics	
ECIV 562	Engineering Hydrology	
ECIV 563	Subsurface Hydrology	
Basic Science Elective		
Select one of the following:		3-4
BIOL 110	General Biology	
BIOL 270	Introduction to Environmental Biology	

ECIV Distribution Courses		12
Select one course from four of the following five areas:		
Environmental Engineering		
ECIV 551	Elements of Water and Wastewater Treatment	
ECIV 555	Principles of Municipal Solid Waste Engineering	
ECIV 556	Air Pollution Control Engineering	
ECIV 557	Sustainable Construction for Engineers	
ECIV 558	Environmental Engineering Process Modeling	
Structural Engineering		
ECIV 325	Structural Steel Design	
ECIV 327	Reinforced Concrete Design	
Transportation Engineering		
ECIV 540	Transportation Systems Planning	
ECIV 541	Highway Design	
ECIV 542	Traffic Engineering	
ECIV 580	Railway Engineering I	
Geotechnical Engineering		
ECIV 530	Foundation Analysis and Design	
ECIV 531	Design of Earth Structures	
Water Resources Engineering		
ECIV 560	Open Channel Hydraulics	
ECIV 562	Engineering Hydrology	
ECIV 563	Subsurface Hydrology	
Basic Science Elective		3-4
Select one from the following:		
BIOL 110	General Biology	
BIOL 270	Introduction to Environmental Biology	
ENVR 101	Introduction to the Environment	
ENVR 321	Environmental Pollution and Health	
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
MSCI 210	Oceans and Society	
MSCI 215	Coastal Environments of the Southeastern US	
Engineering, Science, or Mathematics (ESM) Electives		12-14
Select four courses from the following:		
Additional courses from Foundational Math Elective category, Foundational Math/Science Elective category and Basic Science category.		
Additional ECIV courses 300 level and higher		
BIOL 101	Biological Principles I	
BIOL 102	Biological Principles II	
BIOL 250 and higher		

ENVR 101	Introduction to the Environment	
ENVR 321	Environmental Pollution and Health	
GEOL 101	Introduction to the Earth	
GEOL 103	Environment of the Earth	
MSCI 210	Oceans and Society	
MSCI 215	Coastal Environments of the Southeastern US	
Engineering, Science, or Mathematics (ESM) Electives		
Select four of the following:		12-14
BIOL 101	Biological Principles I	
BIOL 102	Biological Principles II	
BIOL 110	General Biology	
BIOL 250	Microbiology	
BIOL 211 and above		
BMEN 211 or above		
CHEM 112 or above		
CSCE 145	Algorithmic Design I	
or CSCE 146	Algorithmic Design II	
or CSCE 201	Introduction to Computer Security	
or CSCE 206	Scientific Applications Programming	
or CSCE 211	Digital Logic Design	
ECHE 310	Introductory Chemical Engineering Thermodynamics (or above)	
ECIV 210	Dynamics	
Additional ECIV courses 300-level and above		
ELCT 220	Electrical Engineering for Non-Majors	
ELCT 221	Circuits (or above)	
EMCH 290	Thermodynamics (or above) [1]	
ENCP 210	Dynamics	
ENCP 290	Thermodynamic Fundamentals (or above) [2]	
ENVR 331	Integrating Sustainability	
ENVR 501	Special Topics in the Environment	
ENVR 533	Sustainability Projects Course	
GEOG 347	Water as a Resource	
GEOG 563	Advanced Geographic Information Systems	
GEOL 302	Rocks and Minerals (or above)	
BMEN 212 and higher		
Chem 118 and higher		
CSCE 145	Algorithmic Design I	
CSCE 146	Algorithmic Design II	
CSCE 201	Introduction to Computer Security	
CSCE 206	Scientific Applications Programming	
CSCE 211	Digital Logic Design	
ECHE 300 and higher		
ECIV 210 or ENCP 210	Dynamics Dynamics	
ELCT 220	Electrical Engineering for Non-Majors	
ELCT 221 and higher		
EMCH 290 and higher (but not EMCH 360)		
ENCP 290 and higher (but not ENCP 360)		
ENVR 331	Integrating Sustainability	
ENVR 501	Special Topics in the Environment	
ENVR 533	Sustainability Projects Course	
GEOG 347	Water as a Resource	
GEOG 563	Advanced Geographic Information Systems	
GEOL 302 and higher		
ITEC 233 and higher		
MATH 520	Ordinary Differential Equations	
MATH 521	Boundary Value Problems and Partial Differential Equations	
MATH 544	Linear Algebra	
MATH 550	Vector Analysis	
MSCI 305 and higher		
NAVY 201	Naval Ships Systems I	
NAVY 202	Naval Ships Systems II	
PHYS 291 and higher		
NAVY 301	Navigation/Naval Operations I	
STAT 511	Probability	
STAT 512	Mathematical Statistics	
STAT 513	Theory of Statistical Inference	
STAT 516	Statistical Methods II	
STAT 520	Forecasting and Time Series	
STAT 587	Big Data Analytics	
Other Electives		6-8
Select two courses from the following:		

ITEC 233	Introduction to Computer Hardware and Software (or above)	
MATH 241	Vector Calculus	
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
MATH 520	Ordinary Differential Equations	
MATH 521	Boundary Value Problems and Partial Differential Equations	
MATH 544	Linear Algebra	
MATH 550	Vector Analysis	
MSCI 305	Ocean Data Analysis (and above)	
NAVY 201	Naval Ships Systems I	
NAVY 202	Naval Ships Systems II	
NAVY 301	Navigation/Naval Operations I	
PHYS 212	Essentials of Physics II (or above)	
STAT 511	Probability	
STAT 512	Mathematical Statistics	
STAT 513	Theory of Statistical Inference	
STAT 516	Statistical Methods II	
STAT 520	Forecasting and Time Series	
STAT 587	Big Data Analytics	
Other Electives		
Select two of the following:		6-8
Additional courses from the ESM Elective category		
ACCT 222	Survey of Accounting	
ECON 224	Introduction to Economics	
FINA 333	Finance and Markets	
MGMT 371	Principles of Management	
MGSC 290	Computer Information Systems in Business	
MKTG 350	Principles of Marketing	
OR any courses from the ESM Elective category		
Total Credit Hours		65-71

[1] Not EMCH 360.

[2] Not ENCP 360.

Additional courses from Foundational Math Elective category, Foundational Math/Science Elective category, Basic Science category and ESM Elective category.		
Additional ECIV courses 300 level and higher		
ACCT 222	Survey of Accounting	
ECON 224	Introduction to Economics	
FINA 333	Finance and Markets	
MGMT 371	Principles of Management	
MGSC 290	Computer Information Systems in Business	
MKTG 350	Principles of Marketing	
Total Credit Hours		65-71

f. Electrical Engineering

Change to Major/Degree Program – Bachelor of Science in Engineering, Electrical Engineering, 126 to 139 Credit Hours

Existing Program Introduction:

Degree Requirements (126-139 hours)

See College of Engineering and Computing for progression requirements and special academic opportunities.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	34-46
2. College Requirements	0
3. Program Requirements	62-63
4. Major Requirements	30

Existing Program/Supporting Courses Requirements:

3. Program Requirements (62-63 hours)

Supporting Courses (62-63 hours)

Course List

Course	Title	Credits
Analysis Course		3-4
Select one of the following:		
CSCE 146	Algorithmic Design II	
EMCH 201	Introduction to Applied Numerical Methods	
PHYS 306	Principles of Physics III	
Foundational Courses		
ECON 421	Engineering Economics	3
EMCH 220	Mechanical Engineering Fundamentals for Non-Majors	3
MATH 241	Vector Calculus (must be passed with a grade of C or higher)	3
MATH 242	Elementary Differential Equations (must be passed with a grade of C or higher)	3
PHYS 212	Essentials of Physics II (must be passed with a grade of C or higher)	3
PHYS 212L	Essentials of Physics II Lab (must be passed with a grade of C or higher)	1
STAT 509	Statistics for Engineers	3

Change Optional Program Introduction:

Degree Requirements (127-141 hours)

See College of Engineering and Computing for progression requirements and special academic opportunities.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	34-46
2. College Requirements	0
3. Program Requirements	66-68
4. Major Requirements	27

Change Program/Supporting Courses Requirements:

3. Program Requirements (66-68 hours)

Supporting Courses (66-68 hours)

Course List

Course	Title	Credits
Foundational Courses		
Univ 101	The Student in the University	3
EMCH 220	Mechanical Engineering Fundamentals for Non-Majors	3
MATH 241	Vector Calculus (must be passed with a grade of C or higher)	3
MATH 242	Elementary Differential Equations (must be passed with a grade of C or higher)	3
PHYS 212	Essentials of Physics II (must be passed with a grade of C or higher)	3
PHYS 212L	Essentials of Physics II Lab (must be passed with a grade of C or higher)	1
STAT 509	Statistics for Engineers	3
Lower Division Engineering		
CSCE 145	Algorithmic Design I (must be passed with a grade of C or higher)	4
CSCE 211	Digital Logic Design (must be passed with a grade of C or higher)	3
CSCE 212	Introduction to Computer Architecture	3

Lower Division Engineering		
CSCE 145	Algorithmic Design I (must be passed with a grade of C or higher)	4
CSCE 211	Digital Logic Design (must be passed with a grade of C or higher)	3
CSCE 212	Introduction to Computer Architecture	3
ELCT 101	Electrical and Electronics Engineering	3
or ENCP 101	Introduction to Engineering I	
ELCT 102	Electrical Science	3
ELCT 201	Introductory Electrical Engineering Laboratory	3
ELCT 221	Circuits (must be passed with a grade of C or higher)	3
ELCT 222	Signals and Systems (must be passed with a grade of C or higher)	3
Career Plan Electives		
Select 15 hours of electives [1]		15
Total Credit Hours		62-63

[1] The student, in consultation with his or her advisor, will select 15 hours of electives that support the student's defined career plan. Career Plan Electives include ELCT 332 and all ELCT courses numbered 499 and higher. Up to 6 hours of non-ELCT courses may be used to satisfy Career Plan Electives with department approval; all must be at or above the 300-level.

Existing Major Requirements:

4. Major Requirements (30 hours)

Course List

Course	Title	Credits
ELCT 301	Electronics Laboratory	3
ELCT 302	Real Time Systems Laboratory	3
ELCT 321	Digital Signal Processing	3
ELCT 331	Control Systems	3
ELCT 350	Computer Modeling of Electrical Systems	3
ELCT 361	Electromagnetics	3
ELCT 363	Introduction to Microelectronics	3
ELCT 371	Electronics	3
ELCT 403	Capstone Design Project I	3
ELCT 404	Capstone Design Project II	3
Total Credit Hours		30

CSCE 313	Embedded Systems	3
ELCT 101	Electrical and Electronics Engineering	1
or ENCP 101	Introduction to Engineering I	3
ELCT 102	Electrical Science	3
ELCT 201	Introductory Electrical Engineering Laboratory	3
ELCT 221	Circuits (must be passed with a grade of C or higher)	3
ELCT 222	Signals and Systems (must be passed with a grade of C or higher)	3
Total Credit Hours		45-47

Career Plan Electives (18 hours)

The student will select 18 hours of Career Plan Electives. These include ELCT 432 and all ELCT courses numbered 430 and higher. These may include up to 6 hours of non-ELCT courses at the 300 level or higher with department approval. Other courses may be approved by the department. Courses can not duplicate a course otherwise applied to the degree.

General Elective (3 hours)

The student will select an additional 3 credit hours to satisfy the General Elective. These include any university course that does not essentially duplicate a course otherwise applied to the degree.

Change Major Requirements:

4. Major Requirements (27 hours)

Course List

Course	Title	Credits
ELCT 301	Electronics Laboratory	3
ELCT 302	Real Time Systems Laboratory	3
ELCT 321	Digital Signal Processing	3
ELCT 331	Control Systems	3
ELCT 361	Electromagnetics	3
ELCT 363	Introduction to Microelectronics	3
ELCT 371	Electronics	3
ELCT 403	Capstone Design Project I	3
ELCT 404	Capstone Design Project II	3
Total Credit Hours		27

g. Mechanical Engineering

Change to Major/Degree Program – Bachelor of Science in Engineering, Aerospace Engineering, 126 to 138 Credit Hours

Existing College Requirements:

Degree Requirements (126-138 hours)

See College of Engineering and Computing for progression requirements and special academic opportunities.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	34-46
2. College Requirements	0
3. Program Requirements	53
4. Major Requirements	39

Existing Program/Supporting Courses Requirements:

Supporting Courses (53 hours)

Course List

Course	Title	Credits
Foundational Courses		
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Lab	1
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
MATH 344	Applied Linear Algebra	3
PHYS 212	Essentials of Physics II	3
PHYS 212L	Essentials of Physics II Lab	1
STAT 509	Statistics for Engineers	3
Lower Division Engineering		
AESP 101	Introduction into Aerospace Engineering	3
or ENCP 101	Introduction to Engineering I	
EMCH 111	Introduction to Computer-Aided Design	3
or ENCP 102	Introduction to Engineering II	
EMCH 200	Statics (must be passed with a grade of C or higher)	3
EMCH 201	Introduction to Applied Numerical Methods	3
or ENCP 201	Introduction to Applied Numerical Methods	
EMCH 260	Solid Mechanics	3

Change College Requirements:

Degree Requirements (125-137 hours)

See College of Engineering and Computing for progression requirements and special academic opportunities.

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	34-46
2. College Requirements	0
3. Program Requirements	46
4. Major Requirements	45

Change Program/Supporting Courses Requirements:

3. Program Requirements (46 hours)

Supporting Courses (46 hours)

Course	Title	Credits
Foundational Courses		
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Lab	1
MATH 241	Vector Calculus	3
MATH 242	Elementary Differential Equations	3
MATH 344	Applied Linear Algebra	3
ELCT 220	Electrical Engineering for Non-Majors	3
or **ELCT 221**	Circuits	
STAT 509	Statistics for Engineers	3
Lower Division Engineering		
AESP 101	Introduction into Aerospace Engineering	3
or **ENCP 101**	Introduction to Engineering I	
EMCH 111	Introduction to Computer-Aided Design	3
or **ENCP 102**	Introduction to Engineering II	
EMCH 200	Statics (must be passed with a grade of C or higher)	3
or **ENCP 200**	Statics (must be passed with a grade of C or higher)	
EMCH 201	Introduction to Applied Numerical Methods	3
or **ENCP 201**	Introduction to Applied Numerical Methods	
EMCH 260	Solid Mechanics	3

or ENCP 260	Introduction to the Mechanics of Solids	
EMCH 290	Thermodynamics	3
or ENCP 290	Thermodynamic Fundamentals	
Track Electives		
Select one of the following tracks:		15
Aeromechanical Systems:		
AESP 415	Aircraft Design Part I Basics	
EMCH 585	Introduction to Composite Materials	
EMCH 308	Introduction to Finite Element Stress Analysis	
Select two of the following:		
EMCH 332	Kinematics	
EMCH 354	Heat Transfer	
EMCH 535	Robotics in Mechanical Engineering	
EMCH 544	Compressible Fluid Flow	
EMCH 530	Introduction to Engineering Optimization	
Integrated Information Technology:		
ITEC 233	Introduction to Computer Hardware and Software	
ITEC 245	Introduction to Networking	
Select two of the following:		
ITEC 444	Introduction to Human Computer Interaction	
ITEC 445	Advanced Networking	
ITEC 493	Information Technology Security for Managers	
Select one of the following:		
ITEC 370	Database Systems in Information Technology	
or ITEC 447	Management of Information Technology	
Power Electronics Systems:		
ELCT 221	Circuits	
ELCT 222	Signals and Systems	
ELCT 371	Electronics	
ELCT 331	Control Systems	
ELCT 572	Power Electronics	
Control Systems:		
ELCT 221	Circuits	
ELCT 222	Signals and Systems	
ELCT 371	Electronics	
ELCT 331	Control Systems	
ELCT 531	Digital Control Systems	
Communication Systems:		
ELCT 221	Circuits	

or **ENCP 260**	Introduction to the Mechanics of Solids	
EMCH 290	Thermodynamics	3
or **ENCP 290**	Thermodynamic Fundamentals	
Aerospace Engineering Electives		
Select nine hours of the following.		9
EMCH 377	Manufacturing Processes	
EMCH 354	Heat Transfer	
EMCH 332	Kinematics and Dynamics of Machines	
AESP 460	Special Problems: Aerospace Engineering	
AESP 543	Aerospace Propulsion	
EMCH 585	Introduction to Composite Materials	
EMCH 535	Robotics in Mechanical Engineering	
EMCH 544	Compressible Fluid Flow	
EMCH 530	Introduction to Engineering Optimization	
EMCH 592	Introduction to Combustion	
EMCH 516	Control Theory in Mechanical Engineering	
EMCH 578	Introduction to Aerodynamics	
EMCH 532	Intermediate Dynamics	
EMCH 554	Intermediate Heat Transfer	
EMCH 560	Intermediate Fluid Mechanics	
ELCT 221	Circuits	
ELCT 222	Signals and Systems	
ELCT 321	Digital Signal Processing	
ELCT 361	Electromagnetics	
ELCT 371	Electronics	
ELCT 331	Control Systems	
ELCT 572	Power Electronics	
ELCT 531	Digital Control Systems	
ELCT 562	Wireless Communications	
ELCT 564	RF Circuit Design for Wireless Communications	
Total Credit Hours		**46**

ELCT 222	Signals and Systems	
Select three of the following:		
ELCT 321	Digital Signal Processing	
ELCT 361	Electromagnetics	
ELCT 562	Wireless Communications	
ELCT 564	RF Circuit Design for Wireless Communications	
Total Credit Hours		53

Existing Major Requirements:

Course List

Course	Title	Credits
AESP 265	Aerodynamics I Incompressible Flow	3
AESP 314	Energy Power and Propulsion	3
AESP 350	Aerospace Systems	3
AESP 361	Aerospace Laboratory I	3
AESP 362	Aerospace Laboratory II	3
AESP 420	Flight and Orbital Mechanics	3
AESP 428	Design I	3
AESP 466	Flight Dynamics and Control	3
EMCH 310	Dynamics	3
or ENCP 210	Dynamics	
EMCH 330	Mechanical Vibrations	3
or ENCP 330	Introduction to Vibrations	
EMCH 371	Materials	3
EMCH 377	Manufacturing	3
EMCH 577	Aerospace Structures I	3
Total Credit Hours		39

Change Major Requirements:

4. Major Requirements (45 hours)

Course	Title	Credits
AESP 265	Aerodynamics I Incompressible Flow	3
AESP 314	Energy Power and Propulsion	3
AESP 350	Aerospace Systems	3
AESP 361	Aerospace Laboratory I	3
AESP 362	Aerospace Laboratory II	3
AESP 420	Flight and Orbital Mechanics	3
AESP 428	Design I	3
AESP 466	Flight Dynamics and Control	3
EMCH 310	Dynamics	3
or **ENCP 210**	Dynamics	
EMCH 330	Mechanical Vibrations	3
or **ENCP 330**	Introduction to Vibrations	
EMCH 371	Materials	3
EMCH 365	Aerodynamics II Compressible Flow	3
EMCH 577	Aerospace Structures I	3
EMCH 308	Introduction to Finite Element Stress Analysis	3
EMCH 415	Aircraft Design	3
Total Credit Hours		**45**

h. College of Engineering and Computing

Change to Major/Degree Program – College of Engineering and Computing Landing Page in Bulletin, 120 Credit Hours

Existing Program Introduction:

Second Baccalaureate Degree

In accordance with the university's Second Baccalaureate Degree , students may apply for two undergraduate degrees from the College of Engineering and Computing. In addition, the College of Engineering and Computing cooperates with other colleges in the awarding of two degrees. Often, coursework beyond the

Change Optional Program Introduction:

Multiple Baccalaureate Degrees

In accordance with the university policy on Additional Majors and Baccalaureate Degrees, qualified students may pursue more than one degree from the College of Engineering and Computing either simultaneously or in subsequent terms. The College of Engineering and Computing cooperates with other colleges in the awarding of multiple degrees. Students receive a diploma for each degree awarded.

policy-specified minimum semester hour difference is required to complete the second degree.

Second Major

In accordance with the university's Second Major policy, qualified students may apply for graduation with double majors in Computer Science and in Mathematics.

Multiple Majors

In accordance with the university policy on Additional Majors and Baccalaureate Degrees, qualified students may apply for graduation with double majors in Computer Science and in Mathematics. Students completing these requirements receive a single diploma. Students interested in other combinations of disciplinary credentials should consider a minor or multiple baccalaureate degrees.

New Courses:

AESP 365	Aerodynamics II: Compressible Flow
AESP 460	Special Problems: Aerospace Engineering
AESP 543	Aerospace Propulsion
BMEN 575	Engineering of Soft Materials
ECHE 575	Engineering of Soft Materials
ITEC 510	Emerging Information Technology Trends (DL)
ITEC 534	Advanced Human Computer Interaction (DL)

Course Changes:

AESP 350	Aerospace Systems
AESP 420	Flight and Orbital Mechanics
BMEN 271	Introduction to Biomaterials
BMEN 391	Kinetics in Biomolecular Systems
ECHE 311	Chemical Engineering Thermodynamics
ECHE 430	Chemical Engineering Kinetics
ECHE 466	Chemical-Process Analysis and Design II
ELCT 101	Electrical and Electronics Engineering
ELCT 363	Introduction to Microelectronics
ELCT 563	Semiconductor Electronic Devices New Course Name – Semiconductor Devices for Power, Communications and Lighting
EMCH 577	Aerospace Structures I

5. HONORS COLLEGE

New Courses:

SCHC 490 State Government Program: Seminar

SCHC 491 State Government Program: Internship

SCHC 492 South Carolina Washington Semester Program: Contemporary Issues in Politics

SCHC 493 South Carolina Washington Semester Program: Internship

SCHC 494 Honors Internship

Course Change:

SCHC 380 HNRS: Interdisciplinary Proseminars (DL)

6. HOSPITALITY, RETAIL & SPORT MANAGEMENT

Program Change:

a. Interdisciplinary Studies

Change to Major/Degree Program – BAIS, Interdisciplinary Studies, 120 Credit Hours

Program Name Change Only: New Program Name – Services Management, BAIS

Course Changes:

HRTM 275 Introduction to Beverage Management (DL)

HRTM 290 Hospitality and Tourism Practicum (DL)

7. COLLEGE OF INFORMATION AND COMMUNICATIONS

Program Change:

a. Journalism and Mass Communication

Change to Concentration – Bachelor: BAJMC: Public Relations, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials
- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism
- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

b. Journalism and Mass Communication

Change to Concentration – Bachelor: BAJMC: Broadcast Journalism, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials
- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism
- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

c. Journalism and Mass Communication

Change to Concentration – Bachelor: BAJMC: Advertising, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials
- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism
- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

d. Journalism and Mass Communication

Change to Concentration – Bachelor: BA – Journalism and Mass Communications in Mass Communications, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials
- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism

- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

e. Journalism and Mass Communication

Change to Concentration – Bachelor: BAJMC – Visual Communications, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials
- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism
- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

f. Journalism and Mass Communication

Change to Concentration – Bachelor: BAJMC – Journalism, Sports Media Concentration, 12 Credit Hours

Existing Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:
JOUR 391 Sports Media and Society
Select three elective courses from the following:
JOUR 428 -Super Bowl Commercials
JOUR 499 -Special Topics
JOUR 531 -Public Relations Campaigns
JOUR 537 - The Carolina Agency
JOUR 597 -Internship in Mass Communications

Change Concentration / Area of Emphasis / Distinction Requirements:

REQUIRED:

- JOUR 391 Sports Media and Society

ELECTIVES:
Select three elective courses (9 credits) from the following:

- JOUR 243 Sports Activism and Media
- JOUR 244 Special Topics in Sports Media
- JOUR 245 Live Television Sports Production
- JOUR 343 Social Media for the Sports Media
- JOUR 345 Sports Media, Gender, & Sexuality
- JOUR 428 Super Bowl Commercials

- JOUR 443 Sports Announcing
- JOUR 444 Multimedia Sports Storytelling
- JOUR 461 Sports Journalism
- JOUR 499 Special Topics (must be in sports)
- JOUR 597 Internship in Mass Communications (must be in sports)

g. School of Library and Information Sciences

Change to Major/Degree Program – Bachelor of Science, Information Science, 121 Credit Hours, New Credit Hours 120

Existing Program Introduction:

Admissions

First-Year Students

In order to be admitted to the B.S. in Information Science degree program of study in the School of Library and Information Science, first-year students must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students

A student desiring to transfer to the B.S. in Information Science program of the School of Library and Information Science from either another college or school of the University or another institution must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half of the information science course work in residence at the University of South Carolina Columbia. Required information science courses from schools taken from other schools must be validated by proficiency tests. No more than 12 semester hours of required information science courses from other schools may be applied toward the B.S. degree in Information Science.

Completion of ENGL 101 and ENGL 102 with grades of **C** or higher are prerequisites for admission to the B.S. in I.S. upper-division program.

Degree Requirements (121 hours)

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	31-44
2. College Requirements	0
3. Program Requirements	48-54
4. Major Requirements	36

Existing Carolina Core Requirements:

☑ GFL

Change Optional Program Introduction:

Admissions

First-Year Students

In order to be admitted to the B.S. Information Science degree program of study in the School of Information Science, first-year students must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.40 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students

A student desiring to transfer to the B.S. Information Science program of the School of Information Science from either another college or school of the University or another institution must have a cumulative minimum GPA of 2.25 on all work attempted.

No more than 6 semester hours of required information science courses from other schools may be applied toward the B.S. degree in Information Science.

Degree Requirements (120 hours)

Program of Study

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	0
3. Program Requirements	41-53
4. Major Requirements	36

Change Carolina Core Requirements:

☑ GFL

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students in the School of Library and Information Science are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.

- CC-GFL courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students in the School of Library and Information Science are required to demonstrate proficiency in one foreign language equivalent to the 121 course through course credit or the corresponding foreign language placement score.

- CC-GFL courses

Existing College Requirements:

2. College Requirements (0 hours)

No college-required courses for this program.

Existing Program/Supporting Courses Requirements:

3. Program Requirements (48-54 hours)

Supporting Courses (30 hours)

Professional Courses (30 hours)

Complete the required credit hours for each category below.

Course List

Course	Title	Credits
Technology/Systems		
Select six hours of the following:		6
CSCE 101	Introduction to Computer Concepts	
CSCE 102	General Applications Programming	
MGSC 290	Computer Information Systems in Business	
GEOG 363	Geographic Information Systems	
ITEC 444	Introduction to Human Computer Interaction	
Business		
Select six hours of the following:		6
ACCT 222	Survey of Accounting	
ACCT 225	Introduction to Financial Accounting	
ECON 224	Introduction to Economics	
MKTG 350	Principles of Marketing	
Management/Organizations		
Select three hours of the following:		3
MGMT 371	Principles of Management	
MGMT 376	Employee Engagement	
MGMT 402	Managing Teams in the Workplace	
MGMT 472	Entrepreneurship and Small Business	

Change Program/Supporting Courses Requirements:

3. Program Requirements (41-53 hours)

Supporting Courses (30 hours)

Complete the required credit hours for each category below.

Course	Title	Credits
Technology/Systems		
Select six hours of the following:		6
CSCE 101	Introduction to Computer Concepts	
CSCE 102	General Applications Programming	
MGSC 290	Computer Information Systems in Business	
GEOG 363	Geographic Information Systems	
ITEC 444	Introduction to Human Computer Interaction	
Business/Management		
Select nine hours of the following:		9
ACCT 222	Survey of Accounting	
ACCT 225	Introduction to Financial Accounting	
ECON 224	Introduction to Economics	
MKTG 350	Principles of Marketing	
MGMT 371	Principles of Management	
SLIS 402	Introduction to Management Within Information Environments	
Media/Visual Design		
Select three hours of the following:		3
JOUR 101	Media and Society	
MART 201	Foundations of Media Arts Production	
MART 210	Digital Media Arts Fundamentals	
Advanced Writing		
Select three hours of the following:		3
ENGL 460	Advanced Writing	
ENGL 462	Technical Writing	
ENGL 463	Business Writing	

Media/Visual Design		
Select three hours of the following:		3
JOUR 101	Media and Society	
JOUR 203	Principles of Visual Communications	
MART 201	Foundations of Media Arts Production	
Advanced Writing		
Select three hours of the following:		3
ENGL 460	Advanced Writing	
ENGL 462	Technical Writing	
ENGL 463	Business Writing	
ENGL 468	Digital Writing	
Communications		
Select three hours of the following:		3
SPCH 140	Public Communication	
SPCH 260	Argumentation and Debate	
SPCH 330	Small Group Communication	
SPCH 331	Organizational Communication	
SPCH 380	Persuasive Communication	
ANTH 371	Ethnography of Communication	
SAEL 200	Social Advocacy and Ethical Life	
LING 300	Introduction to Language Sciences	
Additional Professional Courses		
Select two from any of the courses listed in the categories above [1]		6
Total Credit Hours		30

[1] SPCH 140, SPCH 260, or SAEL 200 may not be selecte requirements in the Carolina Core.

ENGL 468	Digital Writing	
Communications		
Select three hours of the following:		3
SPCH 140	Public Communication	
SPCH 260	Argumentation and Debate	
SPCH 330	Small Group Communication	
SPCH 331	Organizational Communication	
SPCH 380	Persuasive Communication	
ANTH 371	Ethnography of Communication	
SAEL 200	Social Advocacy and Ethical Life	
LING 300	Introduction to Language Sciences	
Additional Professional Courses		
Select two from any of the courses listed in the categories above [1]		6
Total Credit Hours		**30**

[1] **SPCH 140**, **SPCH 260**, or **SAEL 200** may not be select requirements in the Carolina Core.

Existing Cognate and Minor Requirements:

Minor or Cognate (12-18 hours)

A minor is eighteen credit hours or more. BSIS students are encouraged to pursue one of the sanctioned USC minors in over a hundred different subject areas. BSIS students, with an approval from the BSIS committee, may choose to complete a cognate instead of a minor. The cognate is usually twelve hours of course work. Only six hours of lower division class credits can be applied to the cognate. All cognates will be approved by the BSIS sub-committee usually by the second semester of the Junior year of a BSIS student if not earlier.

Existing Electives:

Electives (0-12 hours)

Choose any course with approval of an academic advisor, to reach hours to graduate.

Note: Courses used to satisfy Carolina Core requirements may not also count as electives.

Change Electives:

Electives (0-11 hours)

Choose any course with approval of an academic advisor, to reach hours to graduate.

Note: Courses used to satisfy Carolina Core requirements may not also count as electives.

Existing Major Requirements:

4. Major Requirements (36 hours)

a minimum grade of C is required in all major courses

Change Major Requirements:
4. Major Requirements (36 hours)

a minimum grade of C is required in all major courses

Major Courses (24 hours)

Major Courses (30 hours)

Course List		
Course	**Title**	**Credits**
SLIS 201	Introduction to Information Science	3
SLIS 202	Introduction to Information Literacy and Technology	3
SLIS 220	Using Information Resources	3
SLIS 301	Information Storage and Retrieval	3
SLIS 310	Research Methods in Information Science	3
SLIS 330	Introduction to Computer Technology & Applications for Info Env	3
SLIS 402	Introduction to Management Within Information Environments	3
SLIS 410	Knowledge Management	3
SLIS 420	Communication and Information Transfer	3
SLIS 494	Independent Study in Information Science	3
or SLIS 496	Internship in Information Science	
Total Credit Hours		30

Major Electives (6 hours)

Course List		
Course	**Title**	**Credits**
Select two of the following:		6
SLIS 315	Information Policy	
SLIS 430	User-Centered Information Architecture	
SLIS 434	Introduction to Knowledge Discovery	
SLIS 435	Digital Information Infrastructure	
SLIS 440	Competitive Intelligence	
SLIS 450	Information Issues in Cultural Heritage Institutions	
SLIS 480	Emerging Topics in Information Science	
SLIS 494	Independent Study in Information Science	
SLIS 496	Internship in Information Science	
Any other SLIS course		
Total Credit Hours		6

Course	**Title**	**Credits**
SLIS 201	Introduction to Information Science	3
SLIS 202	Introduction to Information Literacy and Technology	3
or **SLIS 310**	Research Methods in Information Science	
SLIS 250	Introduction to Content Management Systems and Information Design	3
SLIS 301	Information Storage and Retrieval	3
SLIS 410	Knowledge Management	3
or **SLIS 415**	Social Informatics	
SLIS 434	Introduction to Knowledge Discovery	3
SLIS 560	Information Visualization	3
SLIS 494	Independent Study in Information Science	3
or **SLIS 496**	Internship in Information Science	
Total Credit Hours		**24**

Major Electives (12 hours)

Course	**Title**	**Credits**
Select four from the following, with at least two from SLIS:		12
SLIS 315	Information Policy	
SLIS 430	User-Centered Information Architecture	
SLIS 435	Digital Information Infrastructure	
SLIS 440	Competitive Intelligence	
SLIS 450	Information Issues in Cultural Heritage Institutions	
SLIS 480	Emerging Topics in Information Science	
SLIS 494	Independent Study in Information Science	
SLIS 496	Internship in Information Science	
JOUR 203	Principles of Visual Communications	
JOUR 215	Special Topics in Mass Communication	
JOUR 244	Special Topics in Sports Media	
JOUR 261	Journalism Trends	
JOUR 343	Social Media for Sports Media	
JOUR 346	Graphics for Visual Communications	
JOUR 347	Photography for Visual Communications	
Total Credit Hours		**12**

h. School of Library and Information Sciences

Change to Minor – Informatics Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
Required Courses		
SLIS 201	Introduction to Information Science	3
SLIS 301	Information Storage and Retrieval	3
SLIS 410	Knowledge Management	3
Electives		
Select 9 hours from any additional SLIS courses [1]		9
Total Credit Hours		18

Change Cognate and Minor Requirements:

Minor Requirements (18 Hours)

Course List

Course	Title	Credits
Required Courses		
SLIS 201	Introduction to Information Science	3
SLIS 301	Information Storage and Retrieval	3
SLIS 434	**Introduction to Knowledge Discovery**	**3**
Electives		
Select 9 hours from any additional SLIS courses [1]		9
Total Credit Hours		18

New Courses:

JOUR 307 Media, Sports and Race (DL)

JOUR 444 Multimedia Sports Storytelling (DL)

JOUR 509 Environmental Communication: The Science and Practice (DL)

SLIS 380 Special Topics in Information Science (DL)

Course Changes:

JOUR 416 Creative: Strategy to Execution

JOUR 461 Sports Journalism

JOUR 507 Communicating Science, Health and the Environment
New Course Name – Health Communication: The Science and Practice

JOUR 515 Mass Communications Capstone Portfolio (DL)

JOUR 521 Interactive Communication Strategies

SLIS 250 Introduction to Content Management Systems and Information Design
New Course Name – Information Design

SLIS 410 Knowledge Management
New Course Name – Knowledge Work as an Organizational Asset

SLIS 420 Communication and Information Transfer
New Course Name – Information and Communication Needs and Assessment

SLIS 435 Digital Information Infrastructure
New Course Name – Planning and Sustaining Digital Projects

SLIS 450 Information Issues in Cultural Heritage Institutions
New Course Name – Information Issues in Community Institutions

SLIS 480 Emerging Topics in Information Science

8. SCHOOL OF MUSIC

Program Change:

a. School of Music

Change to Major/Degree Program – Bachelor of Science, Music Industry Studies, 128 Credit Hours

Existing Program Introduction:

Learning Outcomes

- The ability to hear, identify, and work conceptually and analytically with the elements of music – rhythm, harmony, and structure.
- A basic understanding of compositional processes, aesthetic properties of style, and ways these shape and are shaped by artistic and cultural forces.
- An acquaintance with a wide selection of musical literature, the principal eras, genres, and cultural sources, including, but not limited to, jazz, popular, classical, and world music forms.
- The ability to defend musical judgements.
- A functional proficiency in at least one area of instrumental or vocal performance.
- An overview understanding of the music industry, including the functions and organizational structures of its basic component sectors, and the relationships of these sectors together.
- A working knowledge of the multiple ways the music industry and its sectors use principles and techniques of marketing, promotion, management, and merchandising, including the development, manufacturing, distribution and retailing of musical products.
- A basic knowledge of the fundamental principles, issues, and systems associated with creative and intellectual property, including but not limited to copyright, publishing, licensing, patents, and trademarks.
- A functional knowledge of artist and concert management, including but not limited to promotion and production.
- An overview and understanding of organizational structures, practices, and standard issues associated with music organizations.
- A basic understanding of how computers and information technologies influence the business environment, e-commerce, and the decisions of various sectors of the music industry.
- A basic knowledge of the major information and data sources that support or influence decision-making in the music industry and in business more generally.

- An understanding of the fundamental principles of micro- and macro-economics sufficient to apply them to basic economics analysis, evaluation, and decisions-making.
- A functional knowledge of accounting, including financial and managerial accounting.
- A basic understanding of principles, techniques, and common practices in business law, management, business ethics, and marketing, including but not limited to consumer behavior, market research, publicity, and public relations.
- A basic understanding of international business practices.

Admissions

Entrance Requirements
All applicants to the School of Music must audition on their principal instrument or voice. Admission to any specific degree is dependent on the qualifying audition. A student who wishes to enter the School of Music from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.25 or higher. A student who wishes to enter the School of Music from another USC campus must fulfill one of the following:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.25 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.25 or higher on a USC campus. Transfer applicants from regionally accredited colleges and universities are required to have a minimum GPA of 2.25 (on a 4.00 scale) on all college-level courses attempted. If fewer than 30 semester hours of college-level work have been attempted, the applicant must meet both transfer and freshman entrance requirements.

Degree Requirements (121 hours)

Program of Study

Program Summary

Requirements	Credit Hours
1. Carolina Core	32-44
2. College Requirements	0
3. Program Requirements	0-7
4. Major Requirements	82

Founding Documents Requirement

All undergraduate students must take a 3-credit course or its equivalent with a passing grade in the subject areas of History, Political Science, or African American Studies that covers the founding documents including the United State Constitution, the Declaration of Independence, the Emancipation Proclamation and one or more documents that are foundational to the African American Freedom struggle, and a minimum of five essays from the Federalist papers. This course may count as a requirement in any part of the program of study including the Carolina Core, the major, minor or cognate, or as a general elective. Courses that meet this requirement are listed here.

Existing Carolina Core Requirements:

☑ CMW

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

☑ ARP

ARP – Analytical Reasoning and Problem Solving (6 hours)

- two CC-ARP courses

☑ SCI

SCI – Scientific Literacy (8 hours)

- two 4-credit hour CC-SCI courses

☑ GFL

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required, if not already met through Carolina Core or the foreign language placement exam.CC-GFL courses

- CC-CFL courses

☑ GHS

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course

☑ GSS

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course

☑ AIU

AIU – Aesthetic and Interpretive Understanding (3 hours)

must be passed with a grade of C or higher?

- any CC-AIU course, other than MUSC

☑ CMS

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component[1] (0-3 hours)

- any overlay or stand-alone CC-CMS course

☑ INF

INF – Information Literacy[1] (0-3 hours)

- any overlay or stand-alone CC-INF course

☑ VSR

VSR – Values, Ethics, and Social Responsibility[1] (0-3 hours)

- any overlay or stand-alone CC-VSR course

Existing College Requirements:

No college-required courses for this program.

Existing Program/Supporting Courses Requirements:

3. Program Requirements (0-7 hours)

Supporting Courses (0-3 hours)

Foreign Language (0-3 hours)

- only if need to meet 122-level proficiency

Electives (0-7 hours)

The number of non-music electives needed depends on how Carolina Core courses are fulfilled. The number of hours of Carolina Core courses and non-music electives must equal 39 hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the School of Music. The School of Music allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the School of Music.

Existing Cognate and Minor Requirements:

This program does not have a cognate or minor requirement.

Existing Electives:

Electives (0-7 hours)

The number of non-music electives needed depends on how Carolina Core courses are fulfilled. The number of hours of Carolina Core courses and non-music electives must equal 38 hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the School of Music. The School of Music allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the School of Music.

Existing Major Requirements:

4. Major Requirements (82 hours)

A minimum grade of C is required in all major courses.

Major Courses

Course List

Course	Title	Credits
MUSC 100	Recital Class (must complete 5 semesters with a grade of satisfactory)	0
MUSC 100A	Music Advocacy I: Understanding the Power of Your Music	0
MUSC 100L	Recital Class Laboratory	1

Musicianship (17 hours)

Course List

Course	Title	Credits
MUSC 113	Special Topics in Popular Music	3
or MUSC 140	Jazz and American Popular Music	
MUSC 115	Music Theory I	3
MUSC 116	Music Theory II	3
MUSC 117	Aural Skills I	1
MUSC 118	Aural Skills II	1
MUSC 210	Understanding the Psychology of Music	3
MUSC 336	Introduction to Computer Music	3
Total Credit Hours		17

Change Major Requirements:

Major Courses

Course	Title	Credits
MUSC 100	Recital Class (must complete 5 semesters with a grade of satisfactory)	0
MUSC 100A	Music Advocacy I: Understanding the Power of Your Music	0
MUSC 100L	Recital Class Laboratory	1

Musicianship (17 hours)

Course	Title	Credits
MUSC 113	Special Topics in Popular Music	**3**
or MUSC 140	Jazz and American Popular Music	
MUSC 115	Music Theory I	**3**
MUSC 215	Music Theory II	3
MUSC 117	Aural Skills I	1
MUSC 118	Aural Skills II	1
MUSC 210	Understanding the Psychology of Music	3
MUSC 230 or MUSC 231	Intro to Beat Making and Digital Audio Production Digital Music Creation	3
Total Credit Hours		**17**

Applied Music Courses (8 hours)

Course List		
Course	**Title**	**Credits**
MUSC 104	Introduction to Piano	2
Select 3 courses from the following:		6
MUED 155	Group Piano	
MUSC 156		
MUSC 165		
MUSC 265		
MUSC 101	(or higher (MUSC 111, MUSC 211) via audition)	
MUSC 103	Basic Guitar	
MUSC 105	Introduction to Singing	
MUSC 203	Basic Guitar II	
Total Credit Hours		8

Ensembles (4 hours)

Students are required to participate in an ensemble for 4 semesters/hours. The major ensembles are Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Major ensembles require an audition for membership. Students may also participate in University Band, a jazz ensemble, or a chamber ensemble, which includes all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard.

Music Electives (9 hours)

Students must complete a minimum of 9 hours of music major electives.

- any MUSC or MUED courses

Music Industry (43 hours)

Course List		
Course	**Title**	**Credits**
ECON 224	Introduction to Economics	3
MGMT 371	Principles of Management	3
MUSC 305	Introduction to Music Industry Studies	1
MUSC 365	An Introduction to Audio Recording Techniques	3
MUSC 498	Music Practicum	6
MUSC 565	Advanced Audio Recording Techniques	3
MUSC 566	Fundamentals of Sound Use for Media	3
or MUSC 567	Recording Studio Techniques	
MUSC 580	Music & Arts Entrepreneurship	3
MUSC 582	Music and Money	3
MUSC 593	Arts Marketing	3

Applied Music Courses (8 hours)

Course	Title	Credits
MUSC 104	Introduction to Piano	2
Select 3 courses from the following:		6
MUED 155	Group Piano	
MUED 156	Group Piano	
MUED 165	Class Voice (Basic)	
MUED 265	Class Voice (Intermediate)	
MUSC 101A-MUSC 101Z; MUSC 111A-MUSC 111Z; MUSC 211A-MUSC 211Z	Applied Music	
MUSC 103	Basic Guitar	
MUSC 105	Introduction to Singing	
MUSC 203	Basic Guitar II	
Total Credit Hours		**8**

Ensembles (4 hours)

Students are required to participate in an ensemble for 4 semesters/hours. Major ensembles require an addition for membership.

Select 4 hours of **Music Ensemble** from the following:		4
MUSC 123	The Marching Band	
MUSC 124	Symphonic Winds	
MUSC 125	University Concert Choir	
MUSC 126	University Orchestra	
MUSC 129	University Chorus	
MUSC 130A-130Z	Ensemble	
MUSC 131	Jazz Ensemble	
MUSC 133	Wind Ensemble	
MUSC 134	Ensemble – Chamber Orchestra	
MUSC 135B-135E	Ensemble	
Total Credit Hours		**4**

Music Electives (9 hours)

Students must complete a minimum of 9 hours of music major electives.

- any MUSC or MUED courses

Music Industry (43 hours)

SPTE 202	Introduction to Live Entertainment Management	3
SPTE 240	Business Law	3
SPTE 302	Artist Representation and Management	3
SPTE 303	Live Entertainment Tour Management	3
Total Credit Hours		43

Course	Title	Credits
ECON 224	Introduction to Economics	3
MGMT 371	Principles of Management	3
MUSC 305	Introduction to Music Industry Studies	1
MUSC 365	An Introduction to Audio Recording Techniques	3
MUSC 498	Music Practicum	6
MUSC 565	Advanced Audio Recording Techniques	3
MUSC 566	Fundamentals of Sound Use for Media	3
or **MUSC 567**	Recording Studio Techniques	
MUSC 580	Music & Arts Entrepreneurship	3
MUSC 582	Music and Money	3
MUSC 593	Arts Marketing	3
SPTE 202	Introduction to Live Entertainment Management	3
SPTE 240	Business Law	3
SPTE 302	Artist Representation and Management	3
SPTE 303	Live Entertainment Tour Management	3
Total Credit Hours		**43**

New Courses:

MUSC 230 Introduction to Beat Making and Digital Audio Production (DL)

MUSC 231 Introduction to Digital Music Creation (DL)

Course Changes:

MUSC 113 Special Topics in Popular Music (DL)

MUSC 115 Music Theory I

MUSC 215 Music Theory III
New Course Name – Music Theory II

MUSC 305 Introduction to Music Industry Studies (DL)

9. COLLEGE OF NURSING

Course Termination:

NURS 212 Evolution of Nursing Science

10. ARNOLD SCHOOL OF PUBLIC HEALTH

New Course:

EPID 349 Infectious Disease Epidemiology

11. COLLEGE OF SOCIAL WORK

Program Change:

a. College of Social Work

Change to Minor, Social Work Minor, 18 Credit Hours

Existing Cognate and Minor Requirements:

Minor in Social Work

A minor in social work will give you insight into helping people enhance their well-being. Learning social work theories and principles can help you make a difference, whether your primary studies are in education, the health sciences or another area.

The social work minor is open to undergraduate students at the University of South Carolina and introduces you to the knowledge, values and skills of social work. In addition, you may use the social work minor in collaboration with several majors to enhance career opportunities and serve as preparation for graduate study.

Required Courses

You must complete 18 hours of coursework to earn a minor in social work — six hours of required coursework and 12 hours of electives.

The two required courses are:

- SOWK 201 – Introduction to Social Work Profession and Social Welfare
- SOWK 222 – Social Welfare Institutions, Policies and Programs

Minor Electives

You must complete 12 credit hours in courses such as the following:

- SOWK 303 – Social Welfare Services for Children and Youth
- SOWK 304 – Social Welfare Services to Older Adults and Their Families
- SOWK 305 – Social Welfare Services for Women and Minorities
- SOWK 307 – International Social Work and Social Justice

Change Cognate and Minor Requirements:

Minor in Social Work

A minor in social work will give you insight into helping people enhance their well-being. Learning social work theories and principles can help you make a difference, whether your primary studies are in education, the health sciences or another area.

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Minor Electives

You must complete 12 credit hours in courses such as the following:

- SOWK 303 – Social Welfare Services for Children and Youth
- SOWK 304 – Social Welfare Services to Older Adults and Their Families
- SOWK 305 – Social Welfare Services for Women and Minorities
- SOWK 307 – International Social Work and Social Justice

- SOWK 309 – Life Transitions: Loss and Grief
- SOWK 322 - Social Policy Analysis
- SOWK 331 – Diversity and Social Justice in Contemporary Society
- SOWK 341 - Human Behavior and Social Environment (HBSE): Individual Development Across the Life Span
- SOWK 352 - Social Work and Scientific Inquiry
- SOWK 399 – Independent Study
- SOWK 404 – Current Issues in Social Welfare

- SOWK 309 – Life Transitions: Loss and Grief
- SOWK 322 - Social Policy Analysis
- SOWK 331 – Diversity and Social Justice in Contemporary Society
- SOWK 341 - Human Behavior and Social Environment (HBSE): Individual Development Across the Life Span
- SOWK 352 - Social Work and Scientific Inquiry
- SOWK 360 - Refuge and Refugees
- SOWK 399 – Independent Study
- SOWK 404 – Current Issues in Social Welfare

Course Change:

SOWK 382 Introduction to Field Education