

**ACES Concentration**

(Applied Coastal Environmental Science Concentration)

ADMISSION to the B.S. in Coastal Environmental Science curriculum requires that a student be admissible to the College of the Coast & Environment; earned at least 24 semester hours of college credit; have a Cumulative and LSU GPA of at least 2.0; and have passed all courses in mathematics and science with a "C" or better; or received special approval from the dean of the school.

**BASIC SCHOLASTIC EXPECTATIONS.**

\* Maintain a minimum 2.0 Cumulative and LSU GPA.

\* Maintain a minimum 2.0 GPA in the major field.

\* At least 30 of the hours required for this degree must be taken at the 3000/4000-level. See the LSU General Catalog for information on University, College, major, and minor residency requirements.

**CRITICAL REQUIREMENTS**

Sem 1: Credit in MATH 1022/1023; 2.0 Cumulative and LSU GPA.

Sem 2: "C" or better in CHEM 1201; "C" or better in ENGL 1001 or 1004; 2.0 Cumulative and LSU GPA.

Sem 3: "C" or better in BIOL 1201; 2.0 Cumulative and LSU GPA.

Sem 4: "C" or better in MATH 1550; 2.0 Cumulative and LSU GPA.

Sem 5: "C" or better in EXST 2201; 2.0 Cumulative and LSU GPA.

**RECOMMENDED PATH**

**Semester 1**

**Critical: Credit in MATH 1022/1023; 2.0 Cumulative and LSU GPA**

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|--|----|
| ENVS/OCS 1010 INTRODUCTION TO COASTAL ENVIRONMENTAL SCIENCES | 1  |
| ENVS 1126/1127 INTRODUCTION TO ENVIRONMENTAL SCIENCES        | 3  |
| BIOL 1201 BIOLOGY FOR SCIENCE MAJORS I                       | 3  |
| BIOL 1208 BIOLOGY FOR SCIENCE MAJORS I                       | 1  |
| CHEM 1201 GENERAL CHEMISTRY I                                | 3  |
| MATH 1550 ANALYTIC GEOMETRY & CALCULUS I                     | 5  |
| Total Semester Hours:  | 16 |

**Semester 2**

**Critical: "C" or better in CHEM 1201; "C" or better in ENGL 1001 or 1004; 2.0 Cumulative and LSU GPA.**

|   |    |
|---|----|
| ENGL 1001 ENGLISH COMPOSITION           | 3  |
| BIOL 1202 BIOLOGY FOR SCIENCE MAJORS II | 3  |
| BIOL 1209 BIOLOGY FOR SCIENCE MAJORS II | 1  |
| CHEM 1202 GENERAL CHEMISTRY II          | 3  |
| CHEM 1212 GENERAL CHEMISTRY LABORATORY  | 2  |
| GEN. ED. COURSE - ARTS                  | 3  |
| Total Semester Hours:                   | 15 |

**Semester 3**

**Critical: "C" or better in BIOL 1201; 2.0 Cumulative and LSU GPA.**

|  |    |
|--|----|
| ENGL 2000 ENGLISH COMPOSITION                              | 3  |
| CHEM 2261 ORGANIC CHEMISTRY                                | 3  |
| OCS 2007 INTRO TO MARINE SCIENCES: GEOLOGICAL AND PHYSICAL | 3  |
| APPROVED ELECTIVES   | 2  |
| EXST 2201 INTO TO STATISTICAL ANALYSIS                     | 4  |
| Total Semester Hours:                                      | 15 |

**Semester 4**

**Critical: "C" or better in MATH 1550; 2.0 Cumulative and LSU GPA.**

|   |       |
|---|-------|
| CHEM 2001 ANALYTICAL CHEMISTRY                    | 3     |
| CHEM 2002 ANALYTICAL CHEMISTRY LABORATORY         | 1     |
| OCS 2008 INTRO TO MARINE SCIENCES: LIFE PROCESSES | 3     |
| OCS 2011 INTRO TO MATLAB FOR COASTAL SCIENCES     | 3     |
| BIOL 2051 GENERAL MICROBIOLOGY                    |       |
| or BIOL 2153 PRINCIPLES OF GENETICS               |       |
| or LA 2401 LANDSCAPE ECOLOGY                      |       |
| or OCS 2050 COASTAL SYSTEMS ECOLOGY & ECOS        |       |
| or RNR 2101 ECOLOGY OF RENEWABLE NATURAL          | 3-4   |
| GEN. ED. COURSE – SOCIAL SCIENCES                 | 3     |
| Total Semester Hours:                             | 16-17 |

**Semester 5**

**Critical: "C" or better in EXST 2201; 2.0 Cumulative and LSU GPA.**

|   |       |
|---|-------|
| OCS 2020 INTRO TO MARINE SCIENCES: LAB          | 2     |
| EXST 3201 STATISTICAL ANALYSIS II               |       |
| or MATH 1552 CALCULUS II                        |       |
| or OCS 4410 ECOSYSTEM MODELING & ANALYSIS       | 3-4   |
| OCS 3103 GLOBAL ENVIRONMENTAL CYCLES            | 3     |
| PHYS 2001 GENERAL PHYSICS I                     | 3     |
| PHYS 2108 GENERAL PHYSICS LABORATORY FOR MAJORS | 1     |
| APPROVED CES ELECTIVE                           | 3     |
| Total Semester Hours:                           | 16-17 |

**Semester 6**

|   |    |
|---|----|
| ENVS 3102 MATHEMATICAL METHODS IN SCIENCE       | 3  |
| PHYS 2002 GENERAL PHYSICS II                    | 3  |
| PHYS 2109 GENERAL PHYSICS LABORATORY FOR MAJORS | 1  |
| GEN. ED. COURSE – HUMANITIES                    | 3  |
| APPROVED ELECTIVES                              | 4  |
| Total Semester Hours:                           | 14 |

**Semester 7**

|  |    |
|--|----|
| ENVS 4149 DESIGN OF ENVIRON MGMGT SYSTEMS      | 3  |
| GEN. ED. COURSE – HUMANITIES                   | 3  |
| GEN. ED. COURSE - SOCIAL SCIENCES (2000-level) | 3  |
| APPROVED CES ELECTIVES                         | 6  |
| Total Semester Hours:                          | 15 |

**Semester 8**

|                               |            |
|-------------------------------|------------|
| ENVS/OCS 4999 CAPSTONE IN CES | 1          |
| GEN. ED. COURSE – HUMANITIES  | 3          |
| APPROVED ELECTIVES            | 3-4        |
| APPROVED CES ELECTIVES        | 6          |
| Total Semester Hours:         | 13-14      |
| <b>Required Total Hours</b>   | <b>120</b> |

