

CES B.S. Program 2023-2024**DELTA Concentration****(Deltaic Sciences 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

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
OCS 1064 THE WORLD'S DELTAS	3
EXST 2201 INTRO TO STATISTICAL ANALYSIS	4
Total Semester Hours: 16	

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
OCS 2050 COASTAL SYSTEMS ECOLOGY & ECOS	
or BIOL 2051 GENERAL MICROBIOLOGY	
or OCS 2005/2006 GULF OF MEXICO	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.

EXST 3201 STATISTICAL ANALYSIS II	
or MATH 1552 CALCULUS II	
or OCS 4410 ECOSYSTEM MODELING & ANALYSIS	
or OCS 2011 MATLAB	3-4
OCS 3103 GLOBAL ENVIRONMENTAL CYCLES	3
PHYS 2001 GENERAL PHYSICS I	3
PHYS 2108 GENERAL PHYSICS LABORATORY FOR MAJORS	1
APPROVED ELECTIVES 3	
Total Semester Hours: 13-14	

Semester 6

OCS 2020 INTRO TO MARINE SCIENCES: LAB	2
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	2
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 DELTA ELECTIVES *	3
APPROVED CES ELECTIVES	3
Total Semester Hours: 15	

Semester 8

ENVS/OCS 4999 CAPSTONE IN CES	1
GEN. ED. COURSE – HUMANITIES	3
APPROVED DELTA ELECTIVES *	6
APPROVED CES ELECTIVES	4
Total Semester Hours:	14

Required Total Hours	120
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* Approved Deltaic Sciences (DELTA) Electives include: ARCH 4000 Delta Research Colloquium (1), ARCH 4444 The DELTA Studio (4), ARCH 4026 Urban Design and Planning (3), ARCH 4072 Community Design Studies (3), EVEG 3050 Global Issues in Environmental Engineering (1), GEOG 3001 Geography of Louisiana (3), GEOG 4025 Fluvial Geomorphology (3), GEOG 4029 Coastal Resources and Management (3), GEOL 4012 (3) Introduction to Micropaleontology, GEOL 4023 Coastal and Shallow-Marine Depositional Systems (3), GEOL 4164 Deltaic Geology (3), OCS 3200 Hurricanes and Typhoons (3), OCS 4006 Wetland Field Experience: Florida Everglades, Mangroves, and Seagrasses (3), OCS 4024 Coastal Morphodynamics (3), OCS 4060 Introductory Estuarine Dynamics (3).