UNIVERSITY OF SOUTH CAROLINA BEAUFORT

Bachelor of Science in Biology – Coastal Ecology and Conservation

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The **Coastal Ecology and Conservation** Program:

Coastal Ecology and Conservation differs from the overall biology curriculum in the following ways: The capstone senior experience is different:

Coastal Ecology and Conservation has two **Capstone** courses to choose from, one to be taken in the spring of the senior year:

- BIOL B475/B475L— Marine Ecology (and lab) (3/1 credits) Spring Even
- BIOL B471— Conservation Biology (+ lab) (4) Spring Odd
- Note both ***can*** be taken for credit

We recommend a summer internship relevant to the field, which can be science or policy based:

> The summer internship is critical to having the practical experience to 1) landing a good job, 2) getting into a research program (job or graduate school), or 3) working with State or Federal agencies on graduation from USCB.

For upper level electives, you can choose as you please, but we recommend the following:

BIOL B399— Independent Research (related to Marine Biology) (variable up to 3/course) different times based on student interest and faculty availability

BIOL B410— Invertebrate Zoology (+lab) (4) Fall Even

BIOL B411— Marine Adaptations (+lab) (4) Fall Odd

BIOL B425— Marine Plants (+ lab) (4) not offered regularly

BIOL B436— Ichthyology (+ lab) (4) Fall Even

BIOL B480— Molecular Ecology (3) Spring Odd

BIOL B448— Life and Death in the Salt Marsh (4) Maymester

BIOL B450/B450L— Biological Oceanography (and lab) (3/1 credits) every spring

BIOL B490— Marine Policy (3 credits) every fall

BIOL B499— Special Topics (related to Marine Biology) (variable up to 3/course) different times based on student interest and faculty availability

The following is a suggested program of schedule for a 4-year completion of the **Coastal Ecology and Conservation** program. You do not have to take these courses in this precise order, but the more you vary from this prescribe curriculum—the more likely a conflict in scheduling might make things more difficult for your timely completion of your degree.

Curriculum by Year Courses in Blue are Required for the Concentration (15 Credit Hours)					
Course Name	**Credits**	**Course Name**	**Credits**	**Course Name**	**Credits**
Year 1					
Fall		**Spring**		**Summer**	
ENGL B101 English Composition	3	ENGL B102 Engl. Comp & Lit	3		
MATH B111 or B115 Algebra or Precalculus	3(4)	MATH B115 or B141 Precalculus or Calculus I*	4		
BIOL B101 Biological Principles I	4	BIOL B102 Biol. Principles II	4		
PSYC B101 Psychology	3	CHEM B111 Gen. Chemistry I	4		
BIOL B290 Biology or B100 Honors Seminar	1				
Total Semester Hours	14 +	Total Semester Hours	15		
Year 2					
Fall		**Spring**		**Summer**	
BIOL B301 Ecology & Evolution (w/Lab) or BIOL B303 Fundamental Genetics	4 3	BIOL B302/302L Cell & Molecular Biology with Lab.	4	BIOL B401 Internship	
CHEM B112 General Chemistry II	4	CHEM B333 Organic Chemistry I (w/Lab)	3		
MATH B141 or B142 Calculus I or II*	4	CHEM B331L Organic Chem. I Lab	1		
GE/Elective or Foreign Language	3	MATH B142 Calculus II* or GE/Elective	4(3)		
		Foreign Language	3		
Total Semester Hours	17	Total Semester Hours	14+	Hours	0
Year 3					
Fall		**Spring**		**Summer**	
BIOL B301 Ecology & Evolution (w/Lab) or BIOL B303 Fundamental Genetics	4 3	BIOL B475/B475L Marine Ecology (w/Lab) or BIOL 471 Conservation Biology	3/1 or 4	BIOL B401 Internship	
CHEM B334 Organic Chem. II	3	BIOL B399+ Marine Biology Elective (w/Lab)	3(4)	BIOL B448 (Maymester elective)	4
CHEM B332L Organic Chem. II Lab	1	STAT B201 Elementary Stats	3		
PHYS B2X1† Physics I	3	BIOL B399+ Marine Biology Elective (w/ Lab)	3 (4)		
PHYS B2X1L† Physics I Lab	1	BIOL B399+ Marine Biology Elective (w/ Lab)	3 (4)		
GE/Electives	6	GE/Elective[2]	3		
Total Semester Hours	14+	Total Semester Hours	14+	Hours	(4)
Year 4					
Fall		**Spring**		**Summer**	
BIOL B399+ Marine Biology Elective (w/ Lab)	3 (4)	BIOL 471 Conservation Biology (required) or BIOL	4 or		
BIOL B399+ Marine Biology Elective (w/ Lab)	3(4)	B475/B475L— Marine Ecology and Lab (required)	3/1		
BIOL B399+ Marine Biology Elective (w/ Lab)	3(4)	GE/Elective	3		
GE/Elective	3	GE/Elective	3		
GE/Elective	3	GE/Elective	3		
Total Semester Hours	15+	Total Semester Hours	14	Hours	0

*Math requirements to satisfy degree; either: MATH B141/B142, MATH B141/B170, MATH B141/B172, MATH B122/B170, or MATH B122/B172

† Either PHYS B201/201L and B202/202L **OR** PHYS B211/211L and B212/212L are acceptable.