PROGRAM CODE ULASMARBI EFFECTIVE DATE SPRING 2020 VERSION NUMBER 2202

COLLEGE OF LIBERAL ARTS AND SCIENCES

MARINE SCIENCE

BACHELOR OF SCIENCE

BIOLOGY TRACK

ID NUMBER

STUDENT NAME:

MAJOR PROGRAM

Marine Science Core		
REQUIRED COURSES (Note 1)	CR	GRADE
MAR 110 Intro. To Oceanography	3	
MAR 226 Marine Biology	3	
MAR Method-Intense Field Course (Note 1)	3	
MAR 210 Sophomore Seminar	1	
MAR 364 Physical Oceanography	3	
MAR 366 Marine Geology	3	
MAR 380 Senior Seminar	2	
TOTAL CREDITS 18		
ELECTIVE COURSES (Note 2)		
MAR 370 Research in Mar. Sci OR MAR 390 Internship in Mar. Sci.	3	
MAR Elective (Note 2)	3	
MAR Elective (Note 2)	3	
TOTAL CREDITS 9		

Biology Track		
BIO 104 Principles of Biology	4	
BIO 106 Intro. to Zoology	4	
BIO 224 Applied Environ. Micro.	3	
BIO 216 Genetics	3	
TOTAL CREDITS 14		

NOTES:

- Methods courses are offered at the Chincoteague Bay Field Station, Wallops Island, VA and must be approved by the MAR Program Coordinator. 1.
- Courses in this category may be used to satisfy the minimum of 9 SH that must be 2. taken at the Chincoteague Bay Field Station, Wallops Island, VA.
- Students may use a combination of 1, 3, and 4 credit courses to complete 16 credits 3. of Free Electives.

▲ INDICATES COURSE REQUIRED FOR THE MAJOR, BUT MAY BE USED TO SATISFY REQUIREMENTS OF GENERAL EDUCATION. THESE UNITS ARE ONLY COUNTED UNDER GENERAL EDUCATION.

CONCOMITANT COURSES

COURSE		CR	GRADE
Chemistry			
CHM 100 General Chemistry I (4 cr)	(GE C1)		
CHM 102 General Chemistry II		4	
CHM 214 Organic Chemistry I OR			
CHM 204 Fund of Organic Chemistry		4	
Geography			
GEG 274 Geo. Info. Sys. I		3	
Geology			
GEL 100 Physical Geology (4 cr)	(GE C2)		
Mathematics			
MAT 106 Trigonometry or			
MAT 115 Precalculus or		3	
MAT 181 Calculus I			
Physics			
PHY 40 or 100 Physics I	(GE C3)		
PHY 42 or 102 Physics II		4	
TOTAL CREDITS	18		

FREE ELECTIVES³

COURSE		CR	GRADE
TOTAL CREDITS	16		

Check Sheet Last Revised: 9/5/2019

GRADUATION REQUIREMENTS						
		REQUIRED	✓		REQUIRED	✓
KUTTOW	GENERAL EDUCATION CREDITS	45		COMPREHENSIVE EXAM	PASS	
	PROGRAM CREDITS (MINIMUM)	59		MINIMUM QPA OVERALL	2.0	
UNIVERSIIY	FREE ELECTIVES	16		MINIMUM QPA IN MAJOR	2.0	
	TOTAL CREDITS (120 MIN NEEDED TO GRADUATE)	120				

ΝΑΜΕ	EFFECTIVE DATE AUGUST 27, 2018		-	•
ID NUMBER	VERSION 2188	KUTZTOW	\mathbf{N}	
DEGREE REQUIR	EMENTS			
GENERAL EDUC	CATION	UNIVERSI	Γ '	Y
Student Learning Outco	mes (SLO)	Discovering College	DITS DUIRED	3
Upon completion of the requirements for Education Program, students will be able			CR	GR
 communicate clearly and effectively 		FYS 100 First Year Seminar	CK	GK
and in writing.		TRANSFER STUDENTS TRANSFERRING 15 CREDITS OR MORE AND NOT TRANSFERRING AN FYS May select any additional course from sections A, B, C, or D to meet their fys req		
2 apply scientific and quantitative rea solve problems and increase knowled		TRANSFER ELECTIVE:		
apply skills in critical analysis and reformed for the interpretation of data.	easoning	And About the World	EDITS QUIRED EDITS	12
• engage critically with creative or art	istic works.		RNED:	GR
5 demonstrate the ability to retrieve, i evaluate, and use information.	interpret,	1 COMPOSITION 100 LEVEL CMP 1	CR	GIK
6 analyze the role of values, ethics, div	versity.	2 COMPOSITION 200 LEVEL CMP 2		
and multiple perspectives in local and global society.		 3 SPEAKING 4 ANY WRITING (A2) OR SPEAKING COURSE (A3) OR FROM THE APPROVED LIST 		
demonstrate an understanding of va models for the development of the whole person.	arious	COURSES IN CATEGORIES B, C & D MUST BE TAKEN OUTSIDE THE STUDENT'S MAJOR. THE MAJOR IS DEFINED AS THE PREFIX THAT IDENTIFIES THE MAJOR. CONCOMITANT REQUIREMENTS MAY BE TAKEN TO MEET GENERAL EDUCATION REQUIREMENT	'S.	
Completion of the KU General Education will give students opportunities to:	n program		EDITS QUIRED	9
8 explore concepts, ideas, and method	ds	CR	EDITS RNED:	
from a variety of disciplines.		COURSE NUMBER COURSE NAME	CR	GR
		2		
Use this checksheet to plan your degree pro semester with your academic advisor to be		3		
taking courses that are required to obtain seeking. Discuss your goals and choose course.	the degree you are	Understanding CR	EDITS QUIRED)-12
to attain them. Get the most out of your ea advantage of everything that Kutztown Un	lucation by taking	Science & lecnnology CR	EDITS RNED:	
unual of toryining that Raisbown On	iversity has to offer.	THESE COURSES MEET SLO & 3 EA. COURSE NUMBER COURSE NAME	CR	GR
		2 QUANTITATIVE REASONING 3 ANY COURSE APPROVED FOR C1 OR C2		
			EDITS	
		Creating Ideas	QUIRED EDITS	9
TOTAL GENERAL EDUCATION C	REDITS 42-45	THESE COURSES MEET SLO 4 & 6	RNED:	07
FIND A FULL EXPL	ANATION	COURSE NUMBER COURSE NAME	CR	GR
OF THE GENERAL ED	UCATION	2		
PROGRAM AT WWW.KUTZ	TOWN.EDU	3		

B.S. Marine Science/Biology Suggested 4-Year Schedule

Freshman Year¹

Fall Semester	Cr
MAR 110 Intro. to Oceanography	3
BIO 104 – Principles of Biology	4
FYS 100	3
Gen Ed Course	3
Total	13

Sophomore Year¹

Fall Semester	Cr
CHM 100 General Chemistry I	4
MAR 210 Sophomore Seminar	1
PHY 40 or 100	4
Gen Ed Course	3
Free Elective ²	3
Total	15

Junior Year¹

Fall Semester	Cr
CHM 214 or 204	4
BIO 224 – Appl. Env. Micro.	3
Gen Ed Course	3
Gen Ed Course	3
Total	13

Senior Year¹

Fall Semester	Cr
MAR 370 or 390	3
GEG 274 -Intro to GIS	3
Free Elective ²	3
Free Elective ²	3
Gen Ed Course	3
Total	15

Spring Semester	Cr
GEL 100 Physical Geology	4
BIO 106 – Intro to Zoology	4
MAT 106 or 115 or 181	3
Gen Ed Course	3
Total	14

Spring Semester	Cr
CHM 102 General Chemistry II	4
PHY 42 or 102	4
BIO 226 Marine Biology	3
Gen Ed Course	3
Total	14

Spring Semester	Cr
BIO 216 - Genetics	3
MAR 364 or 366 ³	3
Free Elective ²	4
Gen Ed Course	3
Total	13

Spring Semester	Cr
MAR 380 - Senior Seminar	2
MAR 364 or 366 ³	3
Free Elective ²	3
Gen Ed Course	3
Gen Ed Course	3
Total	14

¹Three summer field courses at the Chincoteague Bay Field Station are required for graduation and can be used to fulfill the Methods-Intensive course, as well as the MAR Electives within the Core. These can be scheduled any summer following freshman year with 1, 2 or all 3 in any given summer.

² Students must complete 16 credits of Free Electives in any combination of 1, 3, and 4 credit courses.

³ Offered alternate spring semesters MAR 364 Physical Oceanography (odd)/MAR 366 Marine Geology (even).