PROGRAM CODE
ULASMAROC

EFFECTIVE DATE
FALL 2018

VERSION NUMBER
2188

COLLEGE OF LIBERAL ARTS AND SCIENCES

MARINE SCIENCE

BACHELOR OF SCIENCE

OCEANOGRAPHY TRACK

STUDENT:

STUDENT ID NUMBER:

MAJOR PROGRAM

Required Marine Science (NOTES 1-3)							
COURSE	CR	GRADE					
MAR 110: INTRO. TO OCEANOGRAPHY	3						
MAR 226: MARINE BIOLOGY	3						
INTENSIVE FIELD METHODS COURSE (NOTE 2)	3						
MAR 210: SOPHOMORE SEMINAR	1						
MAR 364: PHYSICAL OCEANOGRAPHY	3						
MAR 366: MARINE GEOLOGY	3						
MAR 370: RESEARCH IN MARINE SCIENCE OR MAR 390: INTERNSHIP IN MARINE SCIENCE	3						
MAR 380: SENIOR SEMINAR	2						
SCIENCE ELECTIVE (NOTES 1, 3)	3						
SCIENCE ELECTIVE (NOTES 1, 3)	3						
TOTAL CREDITS	27						

Physical Science (NOTES 1, 5)								
COURSE		CR	GRADE					
PHYSICAL SCIENCE COURSE 100 LEVEL OR HIGHER		3-4						
PHYSICAL SCIENCE 200 OR HIGHER		3-4						
PHYSICAL SCIENCE 200 OR HIGHER		3-4						
PHYSICAL SCIENCE 200 OR HIGHER		3-4						
PHYSICAL SCIENCE 220 OR HIGHER WAIVED IF FOUR 4 CREDIT CLASSES ARE TAKEN IN PHYSICAL SCIENCES		3						
SCIENCE OR MATH ELECTIVE		3						
SCIENCE OR MATH ELECTIVE		3						
TOTAL CREDITS 2	1-22							

NOTE:

- ** COURSES REQUIRED FOR THE MAJOR, BUT MAY BE USED TO SATISFY GENERAL EDUCATION REQUIREMENT UNDERSTANDING SCIENCE AND TECHNOLOGY
- 1. COURSES IN THIS CATEGORY MAY BE USED TO SATISFY THE MINIMUM OF 9 CREDITS THAT MUST BE TAKEN AT THE CHINCOTEAGUE BAY FIELD STATION, WALLOPS ISLAND, VA. HOWEVER, STUDENTS ARE ENCOURAGED TO TAKE MORE COURSES AT THE CBFS TO FULFILL THE ELECTIVES IN THIS PROGRAM.
- 2. METHODS COURSES ARE OFFERED AT THE CBFS AND MUST BE APPROVED BY THE MARINE SCIENCE PROGRAM COORDINATOR.
- 3. PHYSICAL SCIENCE OR BIOLOGY COURSE AT 200 LEVEL OR ABOVE.
- 4. PSY 11 IS A PREREQUISITE FOR PSY 200
- 5. PHYSICAL SCIENCE ELECTIVE AT THE 200 LEVEL OR ABOVE OR MAT 182, 283, OR 340.
- 6. ZOOLOGY RECOMMENDED.

CONCOMITANT COURSES

Biology		
COURSE	CR	GRADE
BIO 104: PRINCIPLES OF BIOLOGY	**	
BIO 106: INTRO TO ZOOLOGY OR BIO 108: INTRO TO BOTANY (NOTE 6)	4	
Chemistry		
CHM 100: GENERAL CHEMISTRY I	**	
CHM 102: GENERAL CHEMISTRY II	4	
Geography		
GEG 204: METEOROLOGY OR GEG 274: GEO. INFO. SYS. I OR GEG 347 REMOTE SENSING	3	
Geology		
GEL 100: PHYSICAL GEOLOGY	4	
Mathematics		
MAT 140: APPLIED STATISTICS OR PSY 200: STATS. SOC. & BEHAV. SCI (NOTE 4)	3	
MAT 181: CALCULUS I OR HIGHER	4	
Physics these physics courses have math prerequ	UISITES	
PHY 40 OR PHY 100	**	
PHY 42 OR PHY 102	4	
TOTAL CREDITS 26		

Free Electives any course carrying university credit						
TOTAL CREDITS 1						

	GRADUATION R	EQUIR	EN	MENTS		
VUTTTOWN		REQUIRED	✓		REQUIRED	✓
	GENERAL EDUCATION CREDITS	42-45		COMPREHENSIVE EXAM	PASS	
NUIZIOVVIN	PROGRAM CREDITS (MINIMUM)	74-75		MINIMUM QPA OVERALL	2.0	
UNIVERSITY	ELECTIVES	1		MINIMUM QPA IN MAJOR	2.0	
	TOTAL CREDITS	120				

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DEGREE REQUIREMENTS

GENERAL EDUCATION

Student Learning Outcomes (SLO)

Upon completion of the requirements for the General Education Program, students will be able to:

- communicate clearly and effectively orally and in writing.
- 2 apply scientific and quantitative reasoning to solve problems and increase knowledge.
- **3** apply skills in critical analysis and reasoning for the interpretation of data.
- 4 engage critically with creative or artistic works.
- **5** demonstrate the ability to retrieve, interpret, evaluate, and use information.
- analyze the role of values, ethics, diversity, and multiple perspectives in local and global society.
- demonstrate an understanding of various models for the development of the whole person.
- **8** explore concepts, ideas, and methods from a variety of disciplines.

Use this checksheet to plan your degree program. Meet every semester with your academic advisor to be sure that you are taking courses that are required to attain the degree you are seeking. Discuss your goals and choose courses that will help you to attain them. Get the most out of your education by taking advantage of everything that Kutztown University has to offer.

TOTAL GENERAL EDUCATION CREDITS 42-45

FIND A FULL EXPLANATION
OF THE GENERAL EDUCATION
PROGRAM AT WWW.KUTZTOWN.EDU

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First Year Seminar: Discovering College		CREDITS REQUIRED		
THESE COURSES MEET SLO 6 & 7	CREDITS			
COURSE NUMBER COURSE NAME		GR	CR	
FYS 100 First Year Seminar				
TRANSFER STUDENTS TRANSFERRING 30 CREDITS OR MORE AND NOT TRANSFERRING A MAY SELECT ANY APPROVED GENERAL EDUCATION COURSE TO MEET THEIR FYS REQUII		FYE COUI	RSE	
Communicating With	CREL REQU	DITS JIRED	12	
And About the World		CREDITS EARNED:		
THESE COURSES MEET SLO (1) & (5) COURSE NUMBER COURSE NAME	EAR			
COMPOSITION 100 LEVEL CMP 1_ COMPOSITION 200 LEVEL CMP 2_		GR	CR	
SPEAKING ANY WRITING (A2) OR SPEAKING COURSE (A3) OR FROM THE APPROVED LIST				
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 REQUIR	EMENTS.			
Understanding	CREL	DITS		

D	Understanding Self & Others	CREDITS REQUIRED			
	THESE COURSES MEET SLO 3 & 6		CREDITS EARNED:		
COL	RSE NUMBER COURSE NAME		GR	CR	
1					
2					
3	•				
	Understanding	CDED	ATC A	40	

Science & Technology These courses meet slo ② & ③		Understanding Science & Technology	CREDITS 9-1		
			CREL EARN		
	COURS	E NUMBER COURSE NAME		GR	CR
1	SCIENTI	FIC INQUIRY			
2	QUANTI	TATIVE REASONING			
3	ANY CO	URSE APPROVED FOR C1 OR C2			

		CRED REQU	DITS UIRED 9	
	THESE COURSES MEET SLO 4 & 6	CRED EARN		
COURSI	E NUMBER COURSE NAME		GR	CR
1				

COURSE SEQUENCING WITHIN THE MARINE SCIENCE MAJOR Oceanography Track

FRESI	HMAN	Summer	SOPHO	OMORE	Summer	JUN	IIOR	Summer	SEN	IOR
FALL	SPRING	CBFS	FALL	SPRING	CBFS	FALL	SPRING		FALL	SPRING
C1 BIO 104 Principles of Biology	BIO 106 Introduction to Zoology <u>or</u> GEG 10		BIO 106 <u>or</u> 108 (Botany) <u>or</u> GEG 10	BIO 226 Marine Biology		Physical Science Course 200 or higher	MAR 364 Physical Oceanography or MAR 366 Marine Geology		Physical Science Course 200 or higher	MAR 364 Physical Oceanography or MAR 366 Marine Geology
MAR 110 Intro to Oceanography	GEL 100 Physical Geology	MAR 237 Field Methods in Oceanography	C2 CHM 100 General Chemistry I	CHM 102 General Chemistry II	MAR/BIO Elective	Physical Science Course 200 or higher	Physical Science Course 200 or higher	MAR 370 or MAR 390?	Science or Math Elective	Science Elective
FYS 100 First Year Seminar	A1 CMP 100		Physical Science Course 100 or higher	MAT 140 or PSY 200* (statistics)	MAR Elective	GIS 274 Intro to GIS**	B2 HEA 102		MAR 370 Research or 390 Internship	MAR 380 Senior Seminar
Math (106, 115, or 181)	MAT 181 OR 182	2	B1	A2 CMP 200		C3 PHY 040 or 100	PHY 042 or 102		В3	D
		MAR 210 Sophomore Seminar	D		A3 COM 10			D	A4	
13-14 cr	14-15 cr	3 cr	14-16 cr	16 cr	6 cr	16-18 cr	13-14 cr	3 cr	15-16 cr	14-15 cr

3x 3 credit summer courses at CBFS

**Requires GEG 10

*Requires PSY 11 B1 PSY 11