

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
MARINE SCIENCE/OCEANOGRAPHY TRACK**

VI. MAJOR PROGRAM: 48-49 S.H.		
A. Required MAR: 27 S.H. (Notes 1-4)	Gr.	S.H.
MAR 110 Intro. To Oceanography		3
MAR 226 Marine Biology		3
Method-Intensive Field Course (Note 3)		3
MAR 2xx Sophomore Seminar		1
MAR 364 Physical Oceanography		3
MAR 366 Marine Geology		3
MAR 370 Research in Mar. Sci OR MAR 390 Internship in Mar. Sci.		3
MAR 380 Senior Seminar		2
Science Elective (Note 4)		3
Science Elective (Note 4)		3
B. PHYSICAL SCIENCE: 21-22 S.H. Notes 1, 2		
Physical science course 100 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher. Waived if four 4 credit courses in VIB.		3
Science or Math Elective (Note 5)		3
Science or Math Elective (Note 5)		3
VII. CONCOMITANT COURSES: 37 S.H.		
A. BIOLOGY: 8 S.H.		
BIO 104 Principles of Biology		4
BIO 106 Intro. To Zoology OR BIO 108 Intro. To Botany (Note 6)		4
B. CHEMISTRY: 8 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
C. GEOGRAPHY: 3 S.H.		
GEG 204 Meteorology OR GEG 274QL Geo. Info. Sys. I OR GEG 347 Remote Sensing		3
D. GEOLOGY: 4 S.H.		
GEL 100 Physical Geology		4
E. MATHEMATICS: 6 S.H.		
MAT 140QL Applied Statistics OR PSY 200QL Stats. Soc. & Behav. Sci. (Note 7)		3
MAT 171 Calculus I or higher		3
F. PHYSICS: 8 S.H.		
PHY 040 General Physics I OR PHY 100 Physics I		4
PHY 042 General Physics II PHY 102 Physics II		4

VIII. GRADUATION CLEARANCE		
A. Cumulative Q.P.A.		_____
B. Total Semester Hours		_____
a. General Education		_____
b. Major Program		_____
c. Concomitant		_____
GRAND TOTAL		_____
	yes	no
Advisor's Signature _____		
Date _____		

NOTES	
**PSY 011 & SOC 010 are prerequisites to most other courses in their respective disciplines.	
***GEG -- Non-laboratory courses only allowed in this category.	
1.	Required courses may be used to satisfy Gen. Ed. Cat. IV, A, B, C, D and/or Cat. V.
2.	Courses in this category may be used to satisfy the minimum of 9 SH that must be taken at the Marine Science Consortium, Wallops Island, VA. However, students are encouraged to take more courses at the MSC to fulfill the electives in this program.
3.	Methods courses are offered at the Marine Science Consortium and must be approved by the MAR Program Coordinator
4.	Physical Science or biology course at 200 level or above.
5.	Physical science elective at the 200 level or above or MAT 172, 273 or 340.
6.	Zoology Recommended.
7.	PSY 011 is a prerequisite for PSY 200.
8.	A minimum of 120 s.h. are required for graduation.

Program Code: ULASMAROC
Effective Date of Program: Fall 2011
Reviewed: 10/2010

STUDENT:



STUDENT ID NUMBER:

COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MARINE SCIENCE/OCEANOGRAPHY

Program Code **ULASMAROC**Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (9 credits):	RC	CR	GR	CAC
Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

Fall Freshman	credits	Spring Freshman	credits
MAR 110	3	GEL 100	4
Bio 104	4	BIO106/108	4
ENG 23	3	MAT181	4
HEA	3	COM 10	3
Humanities elective	3		
Total	16		15
Fall Sophomore	credits	Spring Sophomore	credits
CHM100	4	CHM102	4
MAR210	1	GEG204	3
MATQL	3	Arts elective	3
Science/math elective	3	Social Science elective	3
Social Science elective	3	Social Science elective	3
Social Science elective	3		
Total	17		16
Fall Junior	credits	Spring Junior	credits
PHY040/100	4	PHY042/102	4
MAR/BIO elective	3	MAR 366 or 364	3
Science/math elective	3-4	Science/math elective	3-4
MAT 140	3-	Science/math elective	3-4
		Marine Bio	3
	13-14		16-18
Summer – Wallops Island	9 credits		
Fall Senior	credits	Spring senior	credits
MAR 370-390	3	MAR 366-364	3
Science/math elective	3-4	MAR 380	2
Science/math elective	3-4	Science/math elective	3
Humanities elective	3	Humanities elective	3
		Humanities elective	3
	12-14		12-14