

NAME: _____ **ID:** _____ **DATE:** _____

GENERAL EDUCATION REQUIREMENTS**GROUP I – English & Literature – 2 Courses**

- A. English 103 (Grade of “C” or better) OR Honors 111 (if in Honor’s Program) 4 _____
- B. Literature (in either English or Modern Languages) 4 _____

GROUP II: History – 2 Courses

- A. History 101, 102 or 103 4 _____
- B. History 101, 102, 103 or a History Course above 103 4 _____

GROUP III: Humanities and Social Sciences – 3 courses from 3 different areas**A. Select one course from one of the following six areas:**

Art, Communications, Dance OR Theater Arts, Modern Languages, Music, Philosophy. (HONR 211 if in Honors Program)

3/4 _____

B. Select one course from of the following six areas:

Anthropology, Conflict Analysis and Dispute Resolution OR Sociology, Economics, **Human** Geography, Political Science, Psychology. (HONR 112 if in Honors Program)

3/4 _____

C. Select one course from either Group III A or IIIB (course may not be from same area selected for IIIA or IIIB)

3/4 _____

GROUP IV: Natural Science, Math and Computer Science – 4 Courses

SATISFIED BY MAJOR

GROUP V: Health Fitness – 1 Course

PHEC 106 Personalized Hlth/Fitness 3 _____

ELECTIVES

* A “C” or better is required before enrolling in courses for which these are a prerequisite AND as a requirement for graduation.

BIOLOGY REQUIREMENTS

A minimum of 40 credit hours of Biology with a GPA of 2.0 and at least 20 credit hours at the 300/400 level.

BIOLOGY CORE REQUIREMENTS

- | | | |
|-----------|-----------------------------|---------|
| *BIOL 210 | Biology: Concepts & Methods | 4 _____ |
| *BIOL 212 | Intro. to Plant Biology | 4 _____ |
| *BIOL 213 | Zoology | 4 _____ |
| BIOL 350 | Cell Biology | 4 _____ |
| BIOL 360 | Genetic Analysis | 4 _____ |
| OR | | |
| BIOL 370 | Molecular Genetics | 4 _____ |
| BIOL 418 | Biology Seminar | 1 _____ |

ADDITIONAL BIOLOGY COURSE WORK

- | | | |
|----------|---------|---------|
| BIOL 310 | Ecology | 4 _____ |
|----------|---------|---------|

ENVIRONMENTAL MARINE SCIENCE REQUIREMENTS***UMES Courses in major require a “C” or better**

- | | | |
|--------------|--------------------------------|---------|
| *BIOL 201 | Marine Zoology | 4 _____ |
| *BIOL 202 | Marine Botany | 4 _____ |
| BIOL 401 | Wetland Ecology | 4 _____ |
| BIOL 410 | Estuarine Biology | 3 _____ |
| *ENV SCI 202 | Oceanography | 4 _____ |
| *ENV SCI 221 | Principles of Environ. Science | 4 _____ |
| *ENV SCI 403 | Marine Ecotoxicology | 4 _____ |
| *ENV SCI 460 | Earth Science | 3 _____ |

COURSE WORK IN RELATED SCIENCES

- | | | |
|----------------|---|-----------|
| *CHEMISTRY 121 | General Chemistry I | 4 _____ |
| *CHEMISTRY 122 | General Chemistry II | 4 _____ |
| CHEMISTRY 221 | Organic Chem. I | 4 _____ |
| PHYSICS 121 | General Physics I | 4 _____ |
| PHYSICS 123 | General Physics II | 4 _____ |
| GEOG 104 OR | Earth and Space Science | 4 _____ |
| GEOG 105 OR | Intro. to Physical Geography | 4 _____ |
| GEOG 219 | Map Analysis | 4 _____ |
| MATH 155 | Mod. Statistics Computer Anal. | 3 _____ |
| MATH 201 | Calculus I | 4/3 _____ |
| OR | | |
| MATH 160 | Intro. to Applied Calculus | 4/3 _____ |
| MATH 202 | Calculus II | 4/3 _____ |
| § | | |
| | Environmental Elective (see list below) | |

§Choose ONE of the following Environmental Electives:

- | | | | |
|----------|---------------------|----------|-------------------|
| GEOG 319 | Geogr. Inform. Sci. | GEOG 411 | Geomorphology |
| GEOG 311 | Coastal Processes | ECON 415 | Env. Economics |
| GEOG 321 | Remote Sensing | POSC 360 | Env. Policy |
| GEOG 401 | Soil, Water, Env. | BIOL 433 | Env. Microbiology |
| GEOG 402 | Env. Planning | | |

30 Hrs. of 300/400 level work with a grade of C or better required for graduation.

- All students must complete a minimum of 120 credits for graduation. Revised: February 29, 2008

BIOLOGY/ENVIRONMENTAL-MARINE SCIENCE CURRICULUM GUIDE

Freshman – Fall Semester		Freshman – Spring Semester	
Course	Credits	Course	Credits
Biol 210	4	Biol 212	4
Chem 121	4	Chem 122	4
Engl 103	4	Hist 102	4
Hist 101	4	Phec 106	3
TOTAL	16	TOTAL	15
Cum. Total	16	Cum. Total	31
Sophomore – Fall Semester		Sophomore – Spring Semester	
Course	Credits	Course	Credits
Biol 213	4	Biol 310	4
Chem 221	4	Geog 104, 105, or 219	3/4
^F Biol 202 Marine Botany	4	^S Biol 201 Marine Zool	4
^F Envs 202 Oceanography	4	^S Envs 202 Princip.of E.S.	4
TOTAL	16	TOTAL	15/16
Cum. Total	47	Cum. Total	62/63
Junior – Fall Semester		Junior – Spring Semester	
Course	Credits	Course	Credits
^F Biol 401	4	Phys 123	4
Biol 350	4	Math 155	3
Phys 121	4	Math 160 or 201	3/4
Literature	4	Gen. Ed. Group III A	4
TOTAL	16	TOTAL	14/15
Cum. Total	78/79	Cum. Total	92-94
Senior – Fall Semester		Senior – Spring Semester	
Course	Credits	Course	Credits
^F Envs 403 Marine Ecotox.	4	Gen Ed. Group III B	4
Biol 360 / 370	4	Biol 418	1
^F Biol 410	3	Gen. Ed. Group III C	4
Environmental Elective or Math 202	3/4	^S Envs 460 Earth Science	3
		Elective credits to total 120 if needed	0-2
TOTAL	14/15	TOTAL	12
Cum. Total	106-109	Cum. Total	118-121

^F Offered only in fall

^S Offered only in spring