

Name _____ I.D. _____

Curriculum requirements for graduation:

General Education Foundation Requirements: 12 credits.			
Course	Credits	Grade	Term
<u>FW. Written Communication</u> ENG/ ESL 100, 100T, ENG 100H	3		
<u>FQ. Quantitative Reasoning</u> Select one course from list. Requirement fulfilled in Marine Science Major (Math 241).	3		
<u>FG. Global and Multicultural Perspectives</u> Select two courses from two different categories	6		

- Notes:**
- Assumes students are qualified at the ENG/ESL 100 level. If not, students may be required to take other courses as specified after taking the English Writing Placement Test
 - Students are required to review requirements for courses in catalog, such as pre-requisites or co-requisites for each course.

Diversification Requirements: 19 credits.			
Course	Credits	Grade	Term
<u>DA/ DH /DL. Arts/ Humanities/ Literature</u> Select two courses from two different categories	6		
<u>DS. Social Sciences</u> Select two courses from two different disciplines	6		
<u>DB/ DP/ DY. Natural Sciences</u> Two courses and one lab. Requirement fulfilled in Marine Science Major	7		

Structural Requirements: 6 credits.			
Course	Credits	Grade	Term
<u>GLA. Language Arts</u> Select one courses from list	3		
<u>GQR. Quantitative Reasoning II</u> Select one courses from list Requirement fulfilled in Marine Science Major (MARE 250, MATH 241).	3		

WI. Writing Intensive Course Requirement			
The number of WI courses required depends on your class standing and year matriculated. Freshman and Sophomores will need to take <u>three WI courses</u> , Juniors: <u>two WI courses</u> , Seniors: <u>one WI course</u> . One WI course must be numbered 300 or above. Please refer to catalog for information. WI courses are listed online: http://www.uhh.hawaii.edu/academics/wi/			
Course	Credits	Grade	Term

HPP. Hawai'i Pan-Pacific Requirement			
One course is required in this area for graduation. There is a large list of courses to choose from in the catalog. The course used to fulfill this requirement may also be used to satisfy a General Education, Writing Intensive, or major/ minor requirement. Four courses in Marine Science (Mare 140, 140L, 156 and 310) may be counted in this area.			
Course	Credits	Grade	Term
	3		

GCC. Global and Community Citizenship Requirement			
One course from the approved list in this area is required for graduation. The course used to fulfill this requirement may also be used to satisfy a General Education, Writing Intensive, or major/ minor requirement.			
Requirement satisfied by MARE 471 or 480 or 495	3		

Note: Additional requirements for graduation are continued on next page.

General Electives: Variable elective courses/credits necessary to total 120 credits.			
Course	Credits	Grade	Term

**2022-23 Catalog: Marine Science Major Requirements
Bachelor of Science Degree (88-90 credits)**

Biology & Marine Science Core: 38 credits.			
Course	Credits	Grade	Term
MARE 171, 171L* Marine Biology – Diversity	4		
MARE 172 Marine Biology – Cellular Processes	3		
MARE 201, 201L* Oceanography	5		
MARE 250* Statistical Applications in Marine Science	3		
MARE 265* Marine Ecology and Evolution	3		
MARE 350, 350L Coastal Methods and Analyses OR MARE 353, 353L Pelagic Methods and Analyses	5		
MARE 425 Chemical Oceanography	3		
MARE 440 Physical Oceanography	3		
MARE 461 Geological Oceanography	3		
**Choose one sequence:			
MARE 470 (3) Senior Thesis Research & MARE 471 (3) Senior Thesis Report	6		
MARE 480 (3) Senior Internship + 3 credits of MARE electives at 300-400 level			
MARE 495 (3) Senior Seminar + 3 credits of MARE electives at 300-400 level			

*Prerequisites for most 300/400-level MARE courses

Required Courses from Related Fields: 43 credits.			
Course	Credits	Grade	Term
CHEM 161, 161L (was 124/L) General Chemistry I	4		
CHEM 162, 162L (was 125/L) General Chemistry II	4		
CHEM 241, 241L Organic Chemistry I	4		
CHEM 242, 242L Organic Chemistry II	4		
GEOL 111 Understanding the Earth	3		
PHYS 170, 170L General Physics I or PHYS 151, 151L College Physics I	5- 4		
PHYS 272, 272L General Physics II or PHYS 152, 152L College Physics II	5- 4		
MATH 241 Calculus I	4		
MATH 242 Calculus II	4		
COM 251 Public Speaking	3		
ENG 225 Writing for Science and Technology Or ENG 287 Introduction to Rhetoric	3		

Marine Science Electives I: Additional 6 credits of any 300- or 400-level MARE courses, excluding MARE 399, 496, or 499 (note any prerequisites in the catalog).			
Course	Credits	Grade	Term

Marine Science Electives II: An additional 3 credits from the following courses from MARE or related fields (note any prerequisites in the catalog).			
Course	Credits	Grade	Term
MARE Course: Any 200-, 300-, or 400-level MARE course, excluding MARE 299, 399, 496 or 499			
Or,			
AGEN 400 (4) Aquacultural Engineering			
AQUA 262 (3) Introduction to Aquaculture			
AQUA 425, 425L (4) Water Quality and Aquatic Productivity			
AQUA 466 (3) Fisheries Science			
ECON 482 (3) Natural Resource and Environmental Economics			
GEOG 340 (3) Principles of Land Use Planning			
GEOG 440 (3) Advanced Environmental Planning			
GEOG 470 (3) Remote Sensing and Air Photo Interpretation			
GEOG 480 (3) Geographic Information Systems and Computer Mapping			
GEOL 344 (3) Coastal Geology			
POLS 335 (3) Environmental Politics and Policy			

Notes:

- Electives should be chosen by the student in consultation with a marine science advisor.
- MARE 399, 499 – Directed Reading/Directed Studies **does not** count toward the major but as credits toward graduation. Only 6 hrs/semester; maximum of 12 toward degree.
- **All courses in the major, including pre-requisites and courses from related fields require a grade of 'C-' or higher.**

Additional General Requirements for all Baccalaureate Degrees. Indicate with "(√)" that requirement is met.	
120 credits (minimum) required for degree	()
30 credits (minimum) must be from UH Hilo	()
Cum 2.00 GPA in all coursework	()
Cum 2.00 GPA in major area coursework	()
Cum 2.00 GPA in minor area coursework	()