

2016/17 University of Hawaii-Hilo Catalog Degree Requirements:
BA, Marine Science Major Check Sheet (BA Degree)
 Online version: <http://www.uhh.hawaii.edu/academics/degrees/>

Name _____ I.D. _____

Curriculum requirements for graduation:

General Education Basic Requirements: 18 hours.			
Course	Hours	Grade	Term
GF. Composition ENG/ ESL 100, 100T, ENG 100H	3		
GL. Language Arts Select one course from list	3		
GQ. Quantitative Reasoning Select two courses from list. <i>Requirement partially fulfilled in Marine Science Major (Math 125 or 205).</i>	6		
World Cultures Select two courses from list.	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.
 - MARE 250 counts for Quant. Reasoning (need Mod. Acad. Req. form)

General Education Area Requirements: 19 hours.			
Course	Hours	Grade	Term
GH. Humanities Disciplines Select 2 courses from 2 different disciplines	6		
GS. Social Sciences Disciplines Select 2 courses from 2 different disciplines	6		
GN. Natural Sciences Electives Two courses and one lab. <i>Requirement fulfilled in Marine Science Major</i>	7		

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>3 WI courses</u> , Juniors: <u>2 WI courses</u> , Seniors: <u>1 WI course</u> . One WI course must be numbered 300 or above. Please refer to catalog for information. <i>At least 2 WI are covered by courses required by MARE: ENG 225/287; MARE 480; MARE 470/471.</i> WI courses are listed online: http://www.uhh.hawaii.edu/academics/wi/			
Course	Hours	Grade	Term

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 MARE471 or MARE480	3		

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

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	Hours	Grade	Term
	3		

General Electives: Variable elective courses/hours necessary to total 120 hours.			
Course	Hours	Grade	Term

2016/17 Catalog: Marine Science Major Requirements (BA) (71-72 hours)

Biology & Marine Science Core: 32 hours.			
Course	Hours	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 282 Global Change	3		
MARE 350, 350L Coastal Methods and Analyses OR MARE 353, 353L Pelagic Methods and Analyses	5		
**Choose one sequence: MARE 470 (3) Senior Thesis Research & MARE 471 (3) Senior Thesis Report 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	6		

*Prerequisites for most 300/400-level MARE courses

**These are considered as different tracks in Banner, so you need to identify which track you are using for graduation. Thesis track is the default.

Required Courses from Related Fields: 21-22 hours.			
Course	Hours	Grade	Term
CHEM 161, 161L General Chemistry I	4		
CHEM 162, 162L General Chemistry II	4		
PHYS 106, 170L College Physics I with lab (pre: 3 years of high school math)	4		
MATH 125 or 205 Calculus I	3-4		
COM 251 Public Speaking	3		
ENG 225 Writing for Science and Technology Or ENG 287 Introduction to Rhetoric	3		

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, electives and courses from related fields require a grade of 'C-' or higher.**

Electives: 18 hours. Select 9 semester hours from Group 1 and 9 hours from Group 2 (In each case, 6 or the 9 must be 300 level or above). Some of these courses have pre-requisites which you should review in catalog.

Group 1 Course	Hours	Grade	Term

- MARE 240 (3) Small Boat Operations in Research
- MARE 264 (3) Quantitative Underwater Ecological Survey Techniques (QUEST)
- MARE 310 (3) The Atoll Ecosystem
- MARE 325 (3) Coral Reef Ecology
- MARE 350, 350L (5) Coastal Methods and Analysis
or 353, 353L (5) Pelagic Methods and Analysis
- MARE 360 (3) Marine Resources
- MARE 364 (3) Advanced QUEST
- MARE 366 (3) Tropical Marine Research Investigations
- MARE 371, 371L (4) Biology of Marine Invertebrates and Lab
- MARE 372, 372L (4) Biology of Marine Plants and Lab
- MARE 390, 390L (4) Biology of Marine Mammals and Lab
- MARE 394A-Z (1-3) Special Topics in Marine Science
- MARE 405 (3) Watersheds
- MARE 410 (3) Marine Debris in the Pacific
- MARE 425 (3) Chemical Oceanography
- MARE 434 (3) Teaching Marine Science
- MARE 435 (3) Marine Field Experience for Teachers
- MARE 440 (3) Physical Oceanography
- MARE 444 (3) Biological Oceanography
- MARE 445 (3) Marine Microbial Ecology
- MARE 446, 446L (4) Phytoplankton Ecology
- MARE 460 (3) Marine Conservation
- MARE 461 (3) Geological Oceanography
- MARE 484 (3) Biology of Fishes
- MARE 484L (1) Biology of Fishes Lab
- MARE 488 (3) Ku'ula: Integrated Science
- MARE 490, 490L (4) Marine Reptile Conservation and Ecology and Lab
- MARE 494A-Z (1-3) Special Topics in Marine Science

Group 2 Course	Hours	Grade	Term

Choose from non-MARE courses listed online [http://hilo.hawaii.edu/catalog/ba_mare.html], 6 of which must be 300-level or above.

Additional General Requirements for all Baccalaureate Degrees. Indicate with "(√)" that requirement is met.	
120 hours(minimum) required for degree	()
30 hours must be completed in the College of Arts and Sciences	()
26 hours in major elective courses 300 level or above must be completed	()
Cum 2.00 GPA in all coursework	()
Cum 2.00 GPA in major area coursework	()
Cum 2.00 GPA in minor area coursework	()