

2008/09 University of Hawaii-Hilo Catalog Degree Requirements:
BS, Marine Science Major Check Sheet
 Online version : <http://www.uhh.hawaii.edu/academics/degrees/>

Name _____ I.D. _____

Curriculum requirements for graduation:

| General Education Basic Requirements: 12 hours. | | | |
|--|-------|-------|-------|
| Course | Hours | Grade | Term |
| <u>English Composition</u> ENG 100, 100T, ESL 100 | 3 | | |
| <u>Quantitative Reasoning</u> Any MATH 100, 200 level (excluding MATH 199, 299) Requirement fulfilled in Marine Science Major (Math 205,206) | 3 | ----- | ----- |
| <u>World Cultures</u> select 2 from: Agriculture: Ag 230 Anthropology: Anth 100 English: Eng 253, 254, 275 Geography: Geog 102 History: Hist 151, 152 Indigenous Studies: Kind 240 | 6 | | |

- Notes:**
- Assumes students are qualified at the ENG/ELS 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.

| 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. WI courses are listed online: http://www.uhh.hawaii.edu/academics/wi/ | | | |
| Course | Hours | Grade | Term |
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| Hawaiian/Asian/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. | | | |
| Course | Hours | Grade | Term |
| | 3 | | |

| General Education Area Requirements: 38 hours. | | | |
|--|-------|-------|-------|
| Course | Hours | Grade | Term |
| <u>Humanities Disciplines</u> Select 3 courses from 3 different disciplines (or 2 + approved Interdisciplinary course) Art Hawaiian Studies and Indigenous Studies Languages (including Hawaiian and Indigenous) Linguistics Performing Arts (Dance, Drama, Music) Philosophy Religious Studies Requirement partially fulfilled in Marine Science Major (Com 251 and Eng 225) | 9 | | |
| <u>Social Sciences Disciplines</u> Select 3 courses from 3 different disciplines (or 2 + approved Interdisciplinary course) Anthropology Business 100 Econ. Or Agricultural Econ. 201 Geography History Political Science Psychology Sociology Women's Studies | 9 | | |
| <u>Natural Sciences Electives</u> Requirement fulfilled in Marine Science Major | 10 | ----- | ----- |

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

(92 hours)

| Biology & Marine Science Core: 38 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 350 Coastal Methods and Analyses OR MARE 353 Pelagic Methods and Analyses | 5 | | |
| MARE 425 Chemical Oceanog. | 3 | | |
| MARE 440 Physical Oceanog. | 3 | | |
| MARE 461 Geological Oceanog. | 3 | | |
| MARE 470 (3) Senior Thesis Research & MARE 471 (3) Senior Thesis Report | 6 | | |

*Prerequisites for most 300/400-level MARE courses

| Required Courses from Related Fields: 45 hours. | | | |
|---|-------|-------|------|
| Course | Hours | Grade | Term |
| CHEM 124, 124D, 124L General Chemistry I | 5 | | |
| CHEM 125, 125D, 125L General Chemistry II | 5 | | |
| 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 | 5 | | |
| PHYS 171, 171L General Physics II | 5 | | |
| MATH 205 Calculus I | 4 | | |
| MATH 206 Calculus II | 4 | | |
| COM 251 Public Speaking | 3 | | |
| ENG 225 Writing for Science and Technology | 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 and courses from related fields require a grade of 'C' or higher. This supersedes the 2.0 GPA mentioned as part of the general requirements.**

Marine Science Electives: 9 hours. Select 9 semester hours from the course listed below. 6 hours must be courses numbered MARE 300 and above (note any prerequisites in the catalog).

| Course | Hours | Grade | Term |
|--------|-------|-------|------|
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- MARE 282 (3) Global Change
- MARE 310 (3) The Atoll Ecosystem
- MARE 325 (3) Coral Reef Ecology
- MARE 350 (4) Coastal Methods and Analysis
or 353 (4) 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 434 (3) Teaching Marine Science
- MARE 435 (3) Marine Field Experience for Teachers
- MARE 444 (3) Biological Oceanography
- MARE 445 (3) Marine Microbial Ecology
- MARE 460 (3) Marine Conservation
- MARE 484 (3) Biology of Fishes
- MARE 484L (1) Biology of Fishes Lab
- MARE 490, 490L (4) Marine Reptile Conservation and Ecology and Lab
- MARE 494A-Z (1-3) Special Topics in Marine Science
- AGEN 400 (4) Aquacultural Engineering
- AQUA 262 (3) Introduction to Aquaculture
- AQUA 425, 425L (4) Water Quality and Aquatic Productivity
- AQUA 450, 450L (4) Aquaculture Production Techniques
- AQUA 466 (3) Fisheries Science
- ECON 380 (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

| General Electives: Variable elective courses/hours necessary to total 120 hours. | | | |
|--|-------|-------|------|
| Course | Hours | Grade | Term |
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| Additional General Requirements for all Baccalaureate Degrees. Indicate with "(√)" that requirement is met. | |
|---|-----|
| 120 hours(minimum) required for degree | () |
| 30 hours must be in the College of Arts and Sciences | () |
| 9 hours in major elective courses 300 level or above must be completed | () |
| 22 hours must be 300 level or above | () |
| Cum 2.00 GPA in all coursework | () |
| Cum 2.00 GPA in major area coursework | () |
| Cum 2.00 GPA in minor area coursework | () |

- MARE 240 (3) Small Boat Operations in Research
- MARE 264 (3) Quantitative Underwater Ecological Survey Techniques (QUEST)