**Sustainability & Environmental Majors**

### INTERDISCIPLINARY SUSTAINABILITY

**B.A.**
- The cross-disciplinary study of issues relating to sustainability, where classes focus on the interconnectivity of human and natural systems
- Course plan tailored by student around focus of interest, such as Environmental Justice & Ethics, Sustainable Island Ecosystems, Environmental Policy & Management, etc. Program includes an internship/research-based capstone requirement
- 2 major foundation courses, Economics, Statistics, BIOL 101 or BIOL 171 or SUST 120/CHM 110, or CHEM 161
- Environmental Protection Agency, Natural Resource Conservation Service, Public works departments, Wildlife ranges

### MARINE BIOLOGY

**B.A.**
- The study of all aspects of marine life, their behaviors, and their relationships to the marine environment
- Biology and chemistry foundations leading up to upper division courses that provide a strong background in both the biotic and physical aspects of marine ecosystems.
- BIOL 171/L, OCN 201
- BIOL 220
- BIOL 265/L
- CHEM 161/L & 162/L
- Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Wildlife sanctuaries, Education

### MARINE BIOLOGY

**B.S.**
- The study of all aspects of marine life, their behaviors, and their relationships to the marine environment
- Biology and chemistry foundations leading up to upper division courses that provide a strong background in both the biotic and physical aspects of marine ecosystems.
- BIOL 171/L & 172/L, BIOL 220, OCN 201
- Calculus I & II
- PHYS 151/L & 152/L
- CHEM 161/L & 162/L
- Fish and Wildlife Service, National Oceanic and Atmospheric Administration, Wildlife sanctuaries, Research facilities

### NATURAL RESOURCES & MANAGEMENT: NATURAL SCIENCE PATHWAY

**B.S.**
- Interdisciplinary study of decision-making and actions to modify the resource base in order to achieve specified goals, with the focus on tropical island ecology and terrestrial and coastal ecosystem
- Comprehensive training in basic & applied natural sciences, management skills & techniques, and real-life problem-solving including field community experiences with an individual specialization in an upper division study area of choice
- BIOL 171/L & 172/L, Econ, NREM 192, NREM 251
- Calculus I
- PHYS 151/L & 152/L
- CHEM 161/L & 162/L
- Fish & Wildlife Service, Forest Service, Environmental Protection Agency, NOAA, Hawaii Division of Aquatic Resources, Hawaii Division of Forestry & Wildlife, Non-profits for Sustainability, Environmental Education

Please refer to the Catalog (manoa.hawaii.edu/catalog/) and Program Sheets (manoa.hawaii.edu/ovcaa/programsheets/) for specific course numbers & more information.