

Sample 4-year Guided Pathway for **Bachelor of Science in Oceanography**
Concentration in Mathematics

Academic Catalog Requirements **2018-2019**

This is **ONLY** a sample degree pathway. Please meet with an academic advisor prior to registration to formulate your own plan, and for additional information refer to the [academic degree requirements](#).

Year	Fall Semester	Spring Semester
1st	MATH 2214: Calculus I (GE QA&SR) 3	MATH 2215: Calculus II 3
	CHEM 2050: Gen. Chemistry (GE NW) 3	CHEM 2052: General Chemistry 3
	CHEM 2051: General Chemistry Lab 1	CHEM 2053: General Chemistry Lab 1
	GE Course (SW, e.g. MARS 1500) 3	GE Course (WC&IL) 3
	GE Course (WC&IL) 3	MARS 1020: Oc. Field Techniques 3
	GE Course (H&P) 3	MATH 1123: Statistics (GE QA&SR) 3
	Total Credits 16	Total Credits 16

Year	Fall Semester	Spring Semester
2nd	MARS 3000: General Oceanography 3	MARS 3000: General Oceanography 3
	MARS 3001: Gen. Oc. Lab 1	MARS 3001: Gen. Oc. Lab 1
	BIOL 2050: General Biology 4	BIOL 2050: General Biology 4
	BIOL 2051: General Biology Lab 1	BIOL 2051: General Biology Lab 1
	GE Course 3	GE Course 3
	GE Course 3	GE Course 3
	Total Credits 15	Total Credits 15

Year	Fall Semester	Spring Semester
3rd	MARS 4080: Physical Oceanography 3	MARS 40X0: (Chem, Bio, or Geol) 3
	MATH 3005: Linear Algebra 3	MATH 3007: Differential Equations 3
	Unrestricted Elective 3	Unrestricted Elective 3
	PHYS 2050: General Physics 4	PHYS 2052: General Physics 4
	PHYS 2051: General Physics I lab 1	PHYS 2053: General Physics II Lab 1
	Unrestricted Elective 3	GE Course 3
	Total Credits 17	Total Credits 17

Year	Fall Semester	Spring Semester
4th	MARS 4920: Res. Exp in Oc. 3	MARS 40X0: (Chem, Bio, or Geol) 3
	MARS 4921: Res. Sem in Oc. 1	Concentration Elective 3
	Concentration Elective 3	Concentration Elective 3
	Concentration Elective 3	Unrestricted Elective 3
	Unrestricted Elective 3	GE Course: 3
	Total Credits 13	Total Credits 15

BOLD indicates courses that should be completed no later than this year in the program

Italicized indicates other classes may be taken

***This schedule is only a suggestion; make sure you understand the necessary prerequisites for each course and consult with your Academic Advisor. Course availability subject to change; actual degree audits may change depending on course availability in a given semester.*

**If you were placed into foundational Writing and Mathematics courses based on your placement and/or test scores, please consult with your academic advisor to develop a degree plan.*

Baccalaureate Requirements

- Total Degree Credits Required = 120 credits of which a minimum of 36 are Upper-Division Credits (level 3000 and above)
- Completion of Major Requirements (*as indicated above*)
- Completion of General Education Requirements (*as indicated above*)
- Cumulative GPA of at least 2.0; Major GPA of at least 2.0
- Residency Requirements: 12 credits of major course work and the last 30 credits immediately preceding graduation (*Service member's Opportunity College students please see your academic advisor*)

General Education Curriculum

Academic Catalog 2018-2019

This is a general education worksheet that illustrates our general education curriculum requirements for any of our Bachelor's degree programs. Please utilize this worksheet in addition to the Sample Guided Pathways to identify the GE categories and their offerings.

Hawaii & the Pacific (GE H&P)	
AL 1050	Languages in the Pacific
ANTH 1500	Contemporary Social Activism in Hawaii
ARTH 1001	Arts of Oceania
BIOL 2170	Ethnobotany: People and Plants
ENG 1101	Representations of Pacific Life
HAWN 1100	Beginning Hawaiian I
HIST 1558	Living History of Hawaii
PHIL 1001	Philosophies of Hawaii & the Pacific

Quantitative Analysis & Symbolic Reasoning (GE QA&SR)	
CSCI 1534	Data Analysis and Visualization
MATH 1120	How Numbers Shape Our Lives
MATH 1123	Statistics
MATH 1130	Pre-Calculus I
MATH 1150	Pre-Calculus I & II
MATH 2214	Calculus I
PHIL 2090	Principles of Logic
PSY 1100	Probabilistic Thinking

Written Communication & Information Literacy I (GE WC&IL 1)	
WRI 1100	Writing and Analyzing Arguments
WRI 1150	Literature & Argument

Written Communication & Information Literacy II (GE WC&IL 2)	
WRI 1200	Research, Argument & Writing
WRI 1250	Introduction to Research in the Humanities

American Experience (GE AE)	
AMST 2000	Topics in American Studies
HIST 1401	American Stories: Themes in American Hist. to 1877
HIST 1402	The American Experience: 1865 to Present
HUM 1270	Intro. to Gender & Women's Studies
PADM 1000	Intro. to Leadership in America
PHIL 2500	Ethics in America
PSCI 1400	The American Political System
SOC 1000	Introduction to Sociology

Creative Arts (GE CA)	
ARTH 2301	World Art History
ARTS 1000	Intro. to Visual Arts
ARTS 2150	Intro. to Design
ENG 2000	The Art of Literature
MUS 1000	Intro. to Classical Music
MUS 2101	Music in World Culture
THEA 2320	Acting I: Basic Acting for Stage & Screen
WRI 2601	Intro. to Creative Writing

Critical Thinking & Expression (GE CT&E)	
COM 1000	Intro. to Communication Skills
COM 2000	Public Speaking
ECON 2010	Principles of Microeconomics
ENG 2100	Ways of Reading: Film, Literature & Culture
GEOG 2000	Visual Human Geography
HIST 1717	Reacting to the Past
PH 1300	Public Health Ethics
PSY 1000	Intro. to Psychology

Global Crossroads & Diversification (GE GC&D)	
AL 2000	Intro. to Linguistics
ANTH 2000	Cultural Anthropology
GEOG 1500	World Regional Geography
HIST 1002	Global Crossroads: 1500 to Present
INTR 1000	The International System
MULT 2000	Global Cinema Studies
PH 2060	Comparative Healthcare Systems
REL 1000	Intro. to World Religions

Natural World (GE NW)	
BIOL 1000	Intro. Biology
BIOL 1300	Nutrition: Eat Smarter
CHEM 1000	Intro. Chemistry
CHEM 2050	General Chemistry
GEOG 1000	Intro to Physical Geography
GEOL 1000	The Dynamic Earth
MARS 1000	Intro. Oceanography
PHYS 1020	Astronomy

Sustainable World (GE SW)	
AQUA 1200	Global Aquaculture for Food Security & Conservation
ARTS 1003	Sustainable Art & Design
BIOL 1500	Conservation Biology
ENVS 1000	The Sustainability Challenge
ENVS 1030	Tropical Ecology & Sustainability
MARS 1500	Marine Biology and the Global Ocean
SWRK 2010	Social Sustainability, Social Work & Entrepreneurship

Technology & Innovation (GE T&I)	
CSCI 1041	Digital Literacy in a Global Society
CSCI 1061	Mobile Technologies for the 21 st Century
CSCI 1611	A Gentle Intro. to Programming
ENGE 1000	Intro. to Engineering Syst. & Pro. Practice
HIST 2630	The History of Science & Technology
MATH 1234	Intro. to Cryptology
MIS 2000	Information Tools for Business
MULT 1100	Foundations of Multimedia Production

Traditions & Movements that Shape the World (GE T&M)	
AL 1100	Language, Power, and Identity
CLST 1000	Great Books East and West
ECON 2015	Principles of Macroeconomics
ENG 2500	World Literature
HIST 1001	Traditions & Encounters: World Cultures to 1500
PH 1200	Intro. to Public Health Professions
PSCI 2000	Intro. to Politics
SOC 2600	Peace Studies

- For more information on our General Education curriculum please refer to our Academic Catalog or you may refer here: http://www.hpu.edu/FacultyAssembly/General_Education_Curriculum_and_Learning_Assessment_Committee.html