

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

*Last revised 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 catalog](#).*

*\*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.*

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
	<b>GE Course (SW, e.g. MARS 1500)</b>	3	<b>GE Course (WC&amp;IL)</b>	3
	<b>GE Course (WC&amp;IL)</b>	3	<b>MARS 1020: Oc. Field Techniques</b>	3
	GE Course (H&P)	3	MATH 1123: Statistics (GE QA&SR)	3
	<b>Total Credits</b>	16	<b>Total Credits</b>	16

Year	Fall Semester		Spring Semester	
2nd	<b>MARS 3000: General Oceanography</b>	<b>3</b>	<b>MARS 3000: General Oceanography</b>	<b>3</b>
	<b>MARS 3001: Gen. Oc. Lab</b>	<b>1</b>	<b>MARS 3001: Gen. Oc. Lab</b>	<b>1</b>
	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
	<b>Total Credits</b>	15	<b>Total Credits</b>	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
	<b>PHYS 2050: General Physics</b>	<b>4</b>	<b>PHYS 2052: General Physics</b>	<b>4</b>
	<b>PHYS 2051: General Physics I lab</b>	<b>1</b>	<b>PHYS 2053: General Physics II Lab</b>	<b>1</b>
	Unrestricted Elective	3	GE Course	3
	<b>Total Credits</b>	17	<b>Total Credits</b>	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
	<b>Total Credits</b>	13	<b>Total Credits</b>	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.*

**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 coursework and 24 of the last 30 credits immediately preceding graduation (*Service member's Opportunity College students please see your academic advisor*)

For more information on our General Education curriculum please refer to our Academic Catalog or visit: <https://www.hpu.edu/gen-ed/index.html>