

## Sample 4-year Degree Plan for **Bachelor of Science in Mathematics**Concentration in **Applied Math**

## Academic Catalog Requirements 2016-2017

This is <u>ONLY a sample</u> degree plan. Please meet with your academic advisor prior to registration to formulate your own plan, and for additional information refer to the <u>academic degree requirements</u>.

\*If you were placed into foundational Writing and/or 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	
	GE WC&IL 1	3	GE WC&IL 2	3
	MATH 2214 Calculus I (GE QA&SR)	3	MATH 2215 Calculus II	3
	CSCI 2911 Computer Science I*	3	CSCI 2912 Computer Science II	3
1st	CSCI 2916 Computer Science I Lab*	1	CHEM 2052 General Chemistry II	3
	CHEM 2050 General Chemistry I (GE NW)	3	CHEM 2053 General Chemistry II Lab	1
	CHEM 2051 General Chemistry I Lab	1	MATH 2007 Math Across the Ages	3
	<b>Total Credits</b>	14	Total Credits	16

Year	Fall Semester		Spring Semester	
	GE H&P	3	GE T&M	3
	MATH 2216 Calculus III		MATH 3307 Differential Equations	3
	MATH 3305 Linear Algebra	3	MATH 3408 Applied Statistics	3
2nd	PHYS 2050 General Physics I	4	PHYS 2052 General Physics II	4
	PHYS 2051 General Physics I Lab	1	PHYS 2053 General Physics II Lab	1
	Unrestricted Elective	2	-	
	<b>Total Credits</b>	16	Total Credits	14

Year	Fall Semester		Spring Semester	
	GE AE	3	GE GC&D	3
	GE T&I	3	GE CA	3
	Upper-Division Major Elective	3	MATH 3500 Numerical Methods	3
3rd	Upper-Division Major Elective	3	Upper-Division Major Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	Total Credits	15

Year	Fall Semester		Spring Semester	
	GE SW	3	GE CT&E	3
	MATH 4470 Methods of Applied Math I	3	MATH 4471 Methods of Applied Math II	3
	Upper-Division Unrestricted Elective	3	Upper-Division Unrestricted Elective	3
4th	Unrestricted Elective	3	Upper-Division Unrestricted Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	<b>Total Credits</b>	15	<b>Total Credits</b>	15

<sup>\*\*</sup>This schedule is <u>only a suggestion</u>; 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.

\*CSCI 2911/2916 requires proficiency in CSCI 1611 or 1911. To discuss placement testing, please contact Dr. Stewart Crawford at <a href="mailto:scrawford@hpu.edu">scrawford@hpu.edu</a>.

## **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**

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 Degree Plans to identify the GE categories and their offerings.

	Hawaii & the Pacific (GE H&P)
AL 1050	Languages in the Pacific
ARTH 1001	Arts of Oceania
BIOL 2170	Ethno-biology: 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
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Quantitative Analysis & Symbolic Reasoning (GE QA&SR)		
CSCI 1534	Data, Financial Literacy, and its Visual Presentation	
MATH 1120	Mathematics in the Modern World	
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	Analyzing & Writing Arguments	
WRI 1150	Literature & Argument	
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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	Intro. to American History since 1865
HUM 1270	Intro. to Gender & Women's Studies
PSCI 1400	American Politics

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	
GEOG 2000	Visual Human Geography	
HIST 1717	Reacting to the Past	
MATH 1116	Problem Solving	
PSY 1000	Intro. to Psychology	

Global Crossroads & Diversification (GE GC&D)		
ANTH 2000	Cultural Anthropology	
BR 1020	The Cross-Cultural Experience	
GEOG 1500	World Regional Geography	
HIST 1002	Global Crossroads: 1500 to Present	
INTR 1000	The International System	
MULT 2000	Intro. to Cinema Studies	
REL 1000	Intro. to World Religions	

Natural World (GE NW)		
BIOL 1000	Intro. Biology	
CHEM 1000	Intro. Chemistry	
CHEM 2050	General Chemistry I	
GEOG 1000	Intro to Physical Geography	
GEOL 1000	The Dynamic Earth	
MARS 1000	Intro. Oceanography	
MARS 2110	Ocean Env. Of the Pacific Island (Summer/SE)	
PHYS 1020	Astronomy	

	Sustainable World (GE SW)
ARTS 1003	Sustainable Art & Design
BIOL 1500	Conservation Biology
ENVS 3000	Science & the Modern Prospect
HIST 3650	History of Oil in the Modern World
MARS 2100	Marine Resource Management
NSCI 2000	Lessons for Building Sustainable Communities
NSCI 3000	Building Sustainable Communities
SWRK 2010	Social Sustainability, Social Work & Entrepreneurship

Technology & Innovation (GE T&I)		
CSCI 1041	Digital Literacy in a Global Society	
CSCI 1061	Mobile Technology for the 21st Century	
CSCI 1555	Health Information Systems	
CSCI 1611	A Gentle Intro. to Computer Programming	
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	
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: <a href="http://www.hpu.edu/FacultyAssembly/General\_Education\_Curriculum\_and\_Learning\_Assessment\_Committee.html">http://www.hpu.edu/FacultyAssembly/General\_Education\_Curriculum\_and\_Learning\_Assessment\_Committee.html</a>