Sample 4-year Degree Plan for **Bachelor of Science in Biochemistry**
Concentration in **Conventional**
Academic Catalog Requirements **2019-2020**

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

**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	
1st	GE WC&IL 1	3	GE WC&IL 2	3
	MATH 2214 Calculus I (GE QA&SR)	3	MATH 2215 Calculus II	3
	BIOL 2050 General Biology I	4	BIOL 2052 General Biology II	4
	BIOL 2051 General Biology I Lab	1	BIOL 2053 General Biology II Lab	1
	CHEM 2050 General Chemistry I (GE NW)	3	CHEM 2052 General Chemistry II	3
	CHEM 2051 General Chemistry I Lab	1	CHEM 2053 General Chemistry II Lab	1
	Total Credits	15	**Total Credits**	15

Year	Fall Semester		Spring Semester	
2nd	GE H&P	3	GE T&M	3
	MATH 1123 Statistics	3	GE GC&D	3
	CHEM 3030 Organic Chemistry I	3	CHEM 3032 Organic Chemistry II	3
	CHEM 3031 Organic Chemistry I Lab	1	CHEM 3033 Organic Chemistry II Lab	1
	PHYS 2050 General Physics I	3	PHYS 2052 General Physics II	3
	PHYS 2051 General Physics I Lab	1	PHYS 2053 General Physics II Lab	1
	Total Credits	14	**Total Credits**	14

Year	Fall Semester		Spring Semester	
3rd	GE AE	3	GE CA	3
	GE T&I	3	GE CT&E	3
	CHEM 3040 Quant. Analysis (odd Falls)	3	GE SW	3
	CHEM 3041 Quant. Analysis Lab (odd Falls)	2	BIOL 3170 Cell and Molecular Biology	3
	CHEM 3020 Physical Chemistry I (even Fall/Spring)	3	Upper-Division Chemistry (CHEM) Elective	3
	Unrestricted Electives (odd Falls)	5	Upper-Division Natural Science Lab	1
	Unrestricted Electives (even Falls)	7		
	Total Credits	16	**Total Credits**	16

Year	Fall Semester		Spring Semester	
4th	CHEM 4030 Biochemistry I	3	CHEM 4032 Biochemistry II	3
	CHEM 4031 Biochemistry I Lab	1	CHEM 4033 Biochemistry II Lab	1
	CHEM 3020 Physical Chemistry I (even Fall/Spring)	3	CHEM 4095 Biochemistry Seminar	3
	CHEM 3040 Quant. Analysis (odd Falls)	3	Unrestricted Electives	7
	CHEM 3041 Quant. Analysis Lab (odd Falls)	2		
	Unrestricted Electives (even Falls)	9		
	Unrestricted Electives (odd Falls)	7		
	Total Credits	16	**Total Credits**	14

***This schedule is only a suggestion; make sure you understand the 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. Notes: CHEM 3040/3041 offered only Fall of odd years; CHEM 3022/3023 offered only Spring of odd years; CHEM 3042/3043/3060 offered only Spring of even years. Upper-division CHEM and Unrestricted Electives can interchange to accommodate offerings.*

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

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

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:
http://www.hpu.edu/FacultyAssembly/General_Education_Curriculum_and_Learning_Assessment_Committee.html