Bachelor of Science in Biology – Human Health Sciences Concentration
SAMPLE 4-Year Degree Plan – Beginning Fall 2015

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

FALL			SPRING			CREDITS
BIOL 2050	General Biology I	4	BIOL 2052	General Biology II	4	***Year 1*** **30 credits**
BIOL 2051	General Biology I Lab	1	BIOL 2053	General Biology II Lab	1	
CHEM 2050	General Chemistry I **(GE The Natural World)**	3	CHEM 2052	General Chemistry II	3	
CHEM 2051	General Chemistry II Lab	1	CHEM 2053	General Chemistry II Lab	1	
GE Course	**Written Communication & Information Literacy I***	3	**GE Course**	**Written Communication & Information Literacy II**	3	
GE Course	**Hawai'i & the Pacific**	3	**GE Course**	**The American Experience**	3	
	15 CREDITS			**15 CREDITS**		
PHYS 2030 **or** 2050	College Physics I	3	PHYS 2032 **or** 2052	College Physics II	3	***Year 2*** **30 credits**
PHYS 2031 **or** 2051	College Physics I Lab	1	PHYS 2033 **or** 2053	College Physics II Lab	1	
MATH 2214	Calculus I (**GE Quantitative Analysis**)	3	MATH 2215	Calculus II	3	
BIOL 3050	Genetics	3	BIOL 3036	Human Anatomy	3	
MATH 1123	Statistics	3	BIOL 3037	Human Anatomy Lab	1	
GE Course	**Critical Thinking and Expression**	3	**GE Course**	**Technology & Innovation**	**3**	
	16 CREDITS			**14 CREDITS**		
BIOL 3034	Human Physiology	3	BIOL 3080	Ecology	3	***Year 3*** **30 credits**
BIOL 3035	Human Physiology Lab	1	CHEM 3032	Organic Chemistry II	3	
CHEM 3030	Organic Chemistry I	3	CHEM 3033	Organic Chemistry II Lab	1	
CHEM 3031	Organic Chemistry I Lab	1	**GE Course**	**Traditions & Movements that Shape the World**	3	
GE Course	**Creative Arts**	**3**	Unrestricted elective		3	
GE Course	**Global Crossroads & Diversity**	**3**	Unrestricted elective		3	
	14 CREDITS			**16 CREDITS**		
BIOL 3040	General Microbiology	3	UD elective	UD lecture from ANTH, BIOL, CHEM, NUR or PSY	3	***Year 4*** **32 credits**
BIOL 3170	Cell and Molecular Biology	3	CHEM 4030	Biochemistry	3	
BIOL 3171	Cell and Molecular Biology Lab	1	PMED 3900	Senior Seminar	2	
PSY 1000	Introduction to Psychology	3	PMED 3950	Senior Practicum	1	
Unrestricted elective		3	**GE Course**	**The Sustainable World**	3	
Unrestricted elective		3	Unrestricted elective		3	
	16 CREDITS			**15 CREDITS**		

Total Degree Credits Required = 120 credits
Major Credits Required =38 lower division + 37 upper division = **75 credits**
General Education Credits Required = 36 credits (though 6 credits overlap with major credits required) = **30 credits**
Unrestricted Electives = 15 required

Total Degree 120 credits

***Place Out Options for Specific General Education (GE) Requirements**:
Students may receive college credits based on specific scores on the College Board's Advanced Placement (AP), the College Level Examination Program (CLEP), the International Baccalaureate (IB), and U.S. military training in multiple subject areas. In addition, GE course requirements may be waived based on specific scores on the SAT or ACT college admission exams in the following categories:

- **Written Communication & Information Literacy I:**
  Students who score 630 or above on the SAT critical reading or 28 or above on the ACT English may place out of the GE "**Written Communication & Information Literacy I"** category. Students will not receive course credit for placing out of the category, though will have satisfied the GE course requirement and are able to take the next course in the sequence in the "Written Communication & Information Literacy II" category (WRI 1200 or WRI 1250). Furthermore, students may substitute the 3 credits with unrestricted electives to fulfill the 120 credit bachelor's degree requirement.
- **Quantitative Analysis & Symbolic Reasoning:**
  Students who score 630 or above on the SAT math or 28 or above on the ACT math may place out of the GE "**Quantitative Analysis & Symbolic Reasoning**" category. Students will not receive course credit for placing out of the category, though will have satisfied the GE course requirement and are able to take the next course in the sequence if required by the major (e.g., may place out of MATH 2214 and enroll in MATH 2215). If the GE category "Quantitative Analysis & Symbolic Reasoning" does not include additional courses required for the major, the student has satisfied this GE category. Furthermore, students may substitute the 3 credits with unrestricted electives to fulfill the 120 credit bachelor's degree requirement.

Bachelor of Science in Biology – Human Health Sciences Concentration
SAMPLE 4-Year Degree Plan – Beginning Fall 2015

For students beginning with Foundational Mathematics & Writing (MATH 1130 + MATH 1140 & WRI 1050)*

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

FALL			SPRING			CREDITS
*WRI 1050	English Fundamentals	3	*MATH 1140	Pre-Calculus II	3	
*MATH 1130	Pre-Calculus I	3	MATH 1123	Statistics	3	
GE Course	**Hawai'i & the Pacific**	3	**GE Course**	**Written Communication & Information Literacy I**	3	***Year 1*** **30 credits**
GE Course	**Technology & Innovation**	3	**GE Course**	**The American Experience**	3	
GE Course	**Creative Arts**	3	**GE Course**	**Global Crossroads & Diversity**	3	
		15 CREDITS			**15 CREDITS**	
GE Course	**Written Communication & Information Literacy II**	3	BIOL 2052	General Biology II	4	
BIOL2050	General Biology I	4	BIOL 2053	General Biology II Lab	1	
BIOL 2051	General Biology I Lab	1	CHEM 2052	General Chemistry II	3	***Year 2*** **30 credits**
CHEM 2050	General Chemistry I **(GE The Natural World)**	3	CHEM 2053	General Chemistry II Lab	1	
CHEM 2051	General Chemistry I Lab	1	MATH 2215	Calculus II	3	
MATH 2214	Calculus I **(GE Quantitative Analysis)**	3	**GE Course**	**Critical Thinking and Expression**	3	
		15 CREDITS			**15 CREDITS**	
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	4	PHYS 2052	General Physics II	4	
PHYS 2051	General Physics I Lab	1	PHYS 2053	General Physics II Lab	1	***Year 3*** **32 credits**
BIOL 3034	Human Physiology	3	BIOL 3036	Human Anatomy	3	
BIOL 3035	Human Physiology Lab	1	BIOL 3037	Human Anatomy Lab	1	
BIOL 3050	Genetics	3	UD elective	UD lecture from ANTH, BIOL, CHEM, NUR, or PSY	3	
		16 CREDITS			**16 CREDITS**	
BIOL 3040	General Microbiology	3	PMED 3900	Senior Seminar	2	
BIOL 3170	Cell and Molecular Biology	3	PMED 3950	Senior Practicum	1	
PSY 1000	Introduction to Psychology	3	CHEM 4030	Biochemistry	3	***Year 4*** **28 credits**
GE Course	**Traditions & Movements that Shape the World**	3	**GE Course**	**The Sustainable World**	3	
Unrestricted elective		1	BIOL 3080	Ecology	3	
			Unrestricted elective		3	
		13 CREDITS			**15 CREDITS**	

Total Degree Credits Required = 120 credits
***Foundational Mathematics & Writing = 9 credits (counted as unrestricted electives)**
Major Credits Required = 40 lower division + 37 upper division = **77 credits as above (75 if College Physics chosen)**
General Education Credits Required = 36 credits (though 6 credits overlap with major credits required) = **30 credits**
Unrestricted Electives = 4 credits

Total Degree 120 credits

__Place Out Options for Foundational Mathematics & Foundational Writing Courses__:

- Students who score below 550 on the SAT math or below 24 on the ACT math are placed in a foundational mathematics course. Students who score below 480 on the SAT critical reading (or below 980 on the SAT combined critical reading and writing) or below 21 on the ACT English are placed in a foundational writing course. Please read the Student Mathematics & Writing Placement Guide for more information, or contact an academic advisor with questions.

Students are encouraged to place out of foundational mathematics and writing courses to save on tuition costs, and decrease time to graduate by beginning undergraduate requirements sooner!

- Students are required to take FREE placement exams to test out of foundational mathematics and/or foundational writing courses. Please contact an academic advisor www.hpu.edu/Advising to schedule an appointment for each placement exam (Math Placement Test and/or English Placement Test). Please give yourself time to review practice questions and practice tests, and brush up on your skills. You may also contact HPU's Center for Academic Success for FREE tutoring.

**There is an additional tuition charge for 17+ credits.

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