Sample 4-year Degree Plan for
Bachelor of Science in Mathematics
Applied Mathematics Concentration
Last Revised 2023-2024

*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 catalog.*
**If you were placed into introductory 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	MATH 2214 Calculus 1 (GE QA&SR)	3	MATH 2215 Calculus 2	3
	CSCI 2911 Computer Science 1	3	MATH 3301 Discrete Mathematics	3
	CSCI 2916 Computer Science 1 Lab	1	CSCI 2912 Computer Science 2	3
	GE WC&IL 1	3	GE WC &IL 2	3
	CHEM 2050 General Chemistry 1 (GE NW)	3	Unrestricted Elective	3
	CHEM 2051 General Chemistry 1 Lab	1		
	Total Credits	14	**Total Credits**	15

Year	Fall Semester		Spring Semester	
2nd	MATH 2216 Calculus 3	3	MATH 3307 Differential Equations	3
	MATH 3305 Linear Algebra	3	GE H&P	3
	PHYS 2050 General Physics 1	3	GE CA	3
	PHYS 2051 General Physics 1 Lab	1	Unrestricted Elective	3
	CSCI 2913 Data Structures	3	Unrestricted Elective	3
	Unrestricted Elective	3		
	Total Credits	16	**Total Credits**	15

Year	Fall Semester		Spring Semester	
3rd	MATH 3000 Proof Writing in Mathematics	3	MATH 3470 Applied Statistics	3
	MATH 3500 Numerical Methods	3	CSCI 3302 Machine Learning & Knowledge Discovery	3
	GE AE	3	GE T&I	3
	GE T&M	3	GE GC&D	3
	CSCI 3242 Modeling and Simulation	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

Year	Fall Semester		Spring Semester	
4th	MATH 4470 Partial Differential Equations	3	MATH 4471 Applications of Differential Equations	3
	GE SW	3	GE CT&E	3
	Upper-Division Elective	3	Upper-Division Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

***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 course work 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

Sample 4-year Degree Plan for
Bachelor of Science in Mathematics
Applied Mathematics Concentration
(Biology Focus)
Last Revised 2023-2024

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Year	Fall Semester		Spring Semester	
1st	MATH 2214 Calculus 1 (GE QA&SR)	3	MATH 2215 Calculus 2	3
	CSCI 2911 Computer Science 1	3	MATH 3301 Discrete Mathematics	3
	CSCI 2916 Computer Science 1 Lab	1	BIOL 2052 General Biology 2	4
	GE WC&IL 1	3	BIOL 2053 General Biology 2 Lab	1
	BIOL 2050 General Biology 1	4	GE WC &IL 2	3
	BIOL General Biology 1 Lab	1		
	Total Credits	15	**Total Credits**	14

Year	Fall Semester		Spring Semester	
2nd	MATH 2216 Calculus 3	3	MATH 3307 Differential Equations	3
	MATH 3305 Linear Algebra	3	CSCI 2912 Computer Science 2	3
	CHEM 2050 General Chemistry 1 (GE NW)	3	GE H&P	3
	CHEM 2051 General Chemistry 1 Lab	1	GE CA	3
	GE AE	3	Unrestricted Elective	3
	Unrestricted Elective	3		
	Total Credits	16	**Total Credits**	15

Year	Fall Semester		Spring Semester	
3rd	MATH 3000 Proof Writing in Mathematics	3	MATH 3470 Applied Statistics	3
	MATH 3500 Numerical Methods	3	BIOL 3080 Ecology	3
	BIOL 3170 Cell and Molecular Biology	3	GE T&I	3
	GE T&M	3	GE GC&D	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

Year	Fall Semester		Spring Semester	
4th	MATH 4470 Partial Differential Equations	3	MATH 4471 Applications of Differential Equations	3
	GE SW	3	GE CT&E	3
	Upper-Division Elective	3	Upper-Division Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

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Baccalaureate Requirements

- Total Degree Credits Required = 120 credits of which a minimum of 36 are Upper-Division Credits (level 3000 and above)
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- 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 24 of the last 30 credits immediately preceding graduation (*Service member's Opportunity College students please see your academic advisor*)

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Sample 4-year Degree Plan for
Bachelor of Science in Mathematics
Applied Mathematics Concentration
(Biostatistics Focus)
Last Revised 2023-2024

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Year	Fall Semester		Spring Semester	
1st	MATH 1123 Statistics	3	MATH 2214 Calculus 1 (GE QA&SR)	3
	CSCI 2911 Computer Science 1	3	MATH 3301 Discrete Mathematics	3
	CSCI 2916 Computer Science 1 Lab	1	BIOL 2052 General Biology 2	4
	GE WC&IL 1	3	BIOL 2053 General Biology 2 Lab	1
	BIOL 2050 General Biology 1 (GE NW)	4	GE WC &IL 2	3
	BIOL General Biology 1 Lab	1	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	17

Year	Fall Semester		Spring Semester	
2nd	MATH 2215 Calculus 2	3	MATH 2216 Calculus 3	3
	MATH 3305 Linear Algebra	3	MATH 3307 Differential Equations	3
	MATH 3000 Proof Writing in Mathematics	3	GE H&P	3
	BIOL 3090 Biometry	3	GE CA	3
	GE AE	3	CSCI 2912 Computer Science 2	3
	Total Credits	15	**Total Credits**	15

Year	Fall Semester		Spring Semester	
3rd	MATH 3460 Probability	3	MATH 3470 Applied Statistics	3
	MATH 3500 Numerical Methods	3	GE T&I	3
	GE T&M	3	GE GC&D	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

Year	Fall Semester		Spring Semester	
4th	GE SW	3	MATH 3600 Mathematics for Data Science	3
	Upper-Division Elective	3	GE CT&E	3
	Upper-Division Elective	3	Upper-Division Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Unrestricted Elective	3	Unrestricted Elective	3
	Total Credits	15	**Total Credits**	15

***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

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