

MATHEMATICS & SCIENTIFIC RESEARCH

Majors included: Biochemistry & Biotechnology, Biology, Chemistry, Mathematics, & Physics

The Mathematics & Scientific Pathway is intended for students who are fascinated by science, research, and how the universe operates. Students can expect a thorough examination of natural sciences, and can opt to also dive further into physical sciences and mathematical research. Those in this Pathway will gather the necessary skillsets to conduct research in a variety of scientific fields; students also interested in health sciences may also consider this Pathway.

*Assumes 60+ hours completed

Entry		Semester 1	
Course Number	Course Name	Credits	Notes
ENGL 3160	Writing in the Sciences	3	
MATH 1030	College Algebra	3	
BIOL 1821	Introductory Biology: Organisms in the Environment	5	
COMM 1040	Introduction to Public Speaking	3	
BIOL 1800	Introduction to the Biology Major	1	
PHYSICS 1099	Windows of Physics	1	
		Total credits:	16

		Semester 2	
Course Number	Course Name	Credits	Notes
MATH 1035	Trigonometry	2	
MATH 1320	Applied Statistics	3	
CHEM 1111	Introduction to Chemistry I	5	
PHIL 2256	Bioethics	3	
PHIL 3380	Philosophy of Science		
CMP SCI 1250	Introduction to Computing	3	
		Total credits:	16

Intermediate		Semester 1	
Course Number	Course Name	Credits	Notes
ENGL 3160	Writing in the Sciences	3	
MATH 1035	Trigonometry	2	
CHEM 1111	Introduction to Chemistry I	5	
COMM 1040	Public Speaking	3	
BIOL 1800	Introduction to the Biology Major	1	
PHYSICS 1099	Windows of Physics	1	
		Total credits:	15

		Semester 2	
Course Number	Course Name	Credits	Notes
MATH 1800	Analytical Geometry & Calculus I	5	
MATH 1320	Applied Statistics	3	
BIOL 1831	Introductory Biology: From Molecules to Organisms	5	
PHIL 2256	Bioethics	3	
PHIL 3380	Philosophy of Science		
		Total credits:	16

Advanced		Semester 1	
Course Number	Course Name	Credits	Notes
ENGL 3160	Writing in the Sciences	3	
MATH 1800	Analytical Geometry & Calculus I	5	
CHEM 1111	Introduction to Chemistry I	5	
CHEM 1121	Introduction to Chemistry II		
BIOL 1800	Introduction to the Biology Major	1	
PHYSICS 1099	Windows of Physics	1	
		Total credits:	15

		Semester 2	
Course Number	Course Name	Credits	Notes
BIOL 1821	Introductory Biology: Organisms in the Environment	5	
BIOL 1831	Introductory Biology: From Molecules to Organisms		
MATH 1900	Analytical Geometry & Calculus II	5	
PHYSICS 1011	Basic Physics I	4 or 5	*Students highly-considering Physics
PHYSICS 2111*	Physics: Mechanics & Heat*		
		Total credits:	14 or 15