Updated May 2026

UNIVERSITY OF ALBERTA

FACULTY OF SCIENCE PROGRAMS

Area of Study	Honors	Major	Minor	Required Prerequisites	Strongly Recommended
Applied Mathematics*	X	X		Mathematics 31	
Astrophysics*	X	X	X	Physics 30	Mathematics 31
Biochemistry*	X	X	X	Biology 30, Chemistry 30, Physics 20	Physics 30
Bioinformatics			X	Biology 30, Chemistry 30	
Biological Sciences*	X	X	X	Biology 30, Chemistry 30	
Cell Biology*	X	X		Biology 30, Chemistry 30, Physics 20	Physics 30
Chemistry*	X	X	X	Chemistry 30, Physics 30	Mathematics 31
Climate Dynamics			X	Physics 30	Mathematics 31
Computing Science*	X	X	X		
Computing Science - Artificial Intelligence	X	X			
Computing Science - Software Practice	X	X			

Prerequisites are your responsibility to complete prior to starting your program

The prerequisites listed are not related to admission requirements but are required in order to register in university level courses within the specific programs

Restrictions exist for major/minor combinations in similar areas. Ex: Astrophysics + Physics not allowed

** = eligible for Double Major*

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Area of Study	Honors	Major	Minor	Prerequisites	Strongly Recommended
Data Science	X	X		Mathematics 31	
Earth Sciences*	X	X	X	Biology 30, Chemistry 30, Physics 20	Physics 30
Ecology, Evolution and Environmental Biology*	X	X		Biology 30, Chemistry 30	
Environmental Earth Sciences	X	X		Biology 30, Chemistry 30, Physics 20	Physics 30
Geology	X	X		Chemistry 30, Physics 20	Physics 30
Geophysics	X	X	X	Chemistry 30, Physics 30	Mathematics 31
Immunology and Infection	X	X		Biology 30, Chemistry 30	
Integrative Physiology*	X	X		Biology 30, Chemistry 30	
Mathematical Physics	X	X		Physics 30	Mathematics 31
Mathematics*	X	X	X	Mathematics 31	
Mathematics and Economics	X	X		Mathematics 31	
Mathematics and Finance	X	X		Mathematics 31	
Molecular, Cellular and Developmental Biology*	X	X		Biology 30, Chemistry 30	
Neuroscience	X	X		Biology 30, Chemistry 30, Physics 30	
Paleontology	X	X		Biology 30, Chemistry 30	
Pharmacology*	X	X	X	Biology 30, Chemistry 30, Physics 20	Physics 30
Physics*	X	X	X	Physics 30	Mathematics 31
Physiology	X	X		Biology 30, Chemistry 30, Physics 20	Physics 30
Planning	X	X		Biology 30	
Psychology*	X	X	X	Biology 30	
Statistics*	X	X	X		Mathematics 31