ATMOSPHERIC SCIENCE MINOR (B.SC.) (18 CREDITS)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)
Degree: Bachelor of Science; Bachelor of Arts and Science
Program credit weight: 18

Program Description

The B.Sc.; Minor in Atmospheric Science is intended to provide the basics of the atmospheric and oceanic properties and circulation, in connection with weather phenomena and the climate system.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Complementary Courses (18 credits)

9-15 selected from:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry.[1]	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 357	Atmospheric and Oceanic Science Laboratory.	3
ATOC 404	Climate Physics.[2]	3
CHEM 219	Introduction to Atmospheric Chemistry.[1]	3
PHYS 404	Climate Physics.[2]	3

[1] Note: Students may select ATOC 219 Introduction to Atmospheric Chemistry. or CHEM 219 Introduction to Atmospheric Chemistry. but not both.

[2] Note: Students may select ATOC 404 Climate Physics. or PHYS 404 Climate Physics. but not both.

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 548	Mesoscale Meteorology.	3
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3

Complementary Courses (18 credits)

9-15 selected from:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry.[1]	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 357	Atmospheric and Oceanic Science Laboratory.	3
ATOC 404	Climate Physics.[2]	3
CHEM 219	Introduction to Atmospheric Chemistry.[1]	3
PHYS 404	Climate Physics.[2]	3

[1] Note: Students may select ATOC 219 Introduction to Atmospheric Chemistry. or CHEM 219 Introduction to Atmospheric Chemistry. but not both.

[2] Note: Students may select ATOC 404 Climate Physics. or PHYS 404 Climate Physics. but not both.

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 548	Mesoscale Meteorology.	0-3

ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3