

Climate and Meteorology Sample Schedule	Total	Term:							
	Credit Hours	1	2	3	4	5	6	7	8
Subjects Required by all Programs (55 hours)									
Mathematics 115, 116, 215, and 216	16	4	4	4	4	-	-	-	-
Engineering 100, Introduction to Engineering	4	4	-	-	-	-	-	-	-
Engineering 101, Introduction to Computers	4	-	4	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211 ¹	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241 ²	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	4	4	-	-	-	-
Required Core Subjects (38 hours)									
CLIMATE 320, Earth and Space System Evolution	3	-	-	3	-	-	-	-	-
CLIMATE 321, Earth and Space System Dynamics	3	-	-	-	3	-	-	-	-
CLIMATE 323, Earth System Analysis	4	-	-	-	4	-	-	-	-
CLIMATE 350, Atmospheric Thermodynamics	3	-	-	-	-	-	3	-	-
CLIMATE 380, Introduction to Radiative Transfer	3	-	-	-	-	3	-	-	-
CLIMATE 401, Geophysical Fluid Dynamics	3	-	-	-	-	3	-	-	-
CLIMATE 410, Earth System Modeling	4	-	-	-	-	-	-	4	-
CLIMATE 414, Weather Systems	3	-	-	-	-	-	3	-	-
CLIMATE 462, Instrumentation for Atmos & Space Sciences	4	-	-	-	-	-	4	-	-
CLIMATE 405, Data Analysis and Visualization ³	4	-	-	-	-	-	4	-	-
CLIMATE 455, Capstone Design ⁴	4	-	-	-	-	-	-	-	4
Concentrations: (select one)									
Meteorology (35 hours total)									
CLIMATE 411, Cloud and Precipitation Process	3	-	-	-	-	-	-	-	3
CLIMATE 405, Remote Sensing ⁵	3	-	-	-	-	-	-	-	3
CLIMATE 422, Boundary Layer Meteorology	4	-	-	-	-	4	-	-	-
CLIMATE 440, Meteorological Analysis Laboratory	4	-	-	-	-	-	-	4	-
Technical Electives	12	-	-	-	-	4	-	4	4
General Electives	9	-	-	-	-	3	3	3	-
Total	128	17	17	16	15	17	17	15	14
Climate Sciences and Impacts Engineering (35 hours total)⁶									
CLIMATE 473, Climate Physics	3	-	-	-	-	-	-	-	3
Statistics/GIS Elective	3	-	-	-	-	3	-	-	-
Climate/Climate Change Elective ⁶	3	-	-	-	-	-	-	-	3
Energy/Sustainability Elective ⁶	3	-	-	-	-	-	-	3	-
Interactions Elective ⁶	4	-	-	-	-	-	-	-	4
Technical Electives	10	-	-	-	-	3	-	4	3
General Electives	9	-	-	-	-	3	3	3	-
Total	128	17	17	16	15	15	17	14	17

Revised: April-17

Candidates for the Bachelor of Science in Engineering in Climate and Meteorology must complete the program listed above. This sample schedule is an example of one leading to graduation in eight terms.

Notes:

- ¹If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130/125/126 you will
- ²If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will
- ³New Course
- ⁴New Course. Students may take year-long (2 hours each term) CLIMATE 499 Directed Study as a Senior Thesis option.
- ⁵New Course. Student may elect to take NRE 541 Remote Sensing (4 hours).
- ⁶See department undergradate program office for list of approved courses.