

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 2111	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 2412	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 324, Instrumentation for Atmos & Space Sciences	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 423, Data Analysis and Visualization	4	-	-	-	-	-	4	-	-
CLIMATE 455/499, Capstone Design3	4	-	-	-	-	-	-	-	4
Concentrations: (select one)									
Meteorology (35 hours total)									
CLIMATE 411, Cloud and Precipitation Process	3	-	-	-	-	-	-	-	3
CLIMATE 405, Remote Sensing4	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 Elective5	3	-	-	-	-	3	-	-	-
Climate/Climate Change Elective5	3	-	-	-	-	-	-	-	3
Energy/Sustainability Elective5	3	-	-	-	-	-	-	-	3
Interactions Elective5	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: February-20

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:

- 1.If 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
- 2.If 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
3. New Course. Students may take year-long (2 hours each term) CLIMATE 499 Directed Study as a Senior Thesis option.
- 4.New Course. Student may elect to take NRE 541 Remote Sensing (4 hours).
5. See department undergraduate program office for list of approved courses.