

Sample Plan of Study

Computational Atmospheric Sciences Option

1st Year - Freshman Year

Fall Semester		Spring Semester	
MATH 113 Analytic Geom and Calc I ¹	4	MATH 114 Analytic Geom and Calc II	4
CLIM 111 Intro Fund Atmos Sci	3	CS 112 Intro Comp Program ² or CDS 130 Computing for Scientists	3-4
CLIM 112 Intro Fund Atmos Sci Lab	1	CLIM 102 Intro Global Clim Change Sci	4
COMM 101 Interpersonal and Group Interact	3	ENGH 101 Composition	3
SOCI 101 Introductory Sociology	3		
UNIV 100 Introduction to Mason	1		
Total Credits	15	Total Credits	14-15

¹ A placement test is required (visit http://math.gmu.edu/placement_test.php or email Catherine Sausville at csausvil@gmu.edu)

² An additional information technology ethics course must be taken in order to completely fulfill the Mason Core: Information Technology requirement. Recommended courses include either CDS 151 or CS 105.

2nd Year - Sophomore Year

Fall Semester		Spring Semester	
MATH 213 Analytic Geom and Calc III	3	CHEM 211 General Chemistry I and CHEM 213 General Chemistry I Lab	4
PHYS 160 University Physics I	3	PHYS 260 University Physics II	3
PHYS 161 University Physics I Lab	1	PHYS 261 University Physics II Lab	1
CLIM 301 Weather Analysis and Prediction	4	CLIM Elective ⁴	3
ENGH 302 Advanced Composition	3	STAT 250 Introductory Statistics	3
CS 105 Computer Ethics and Society ³ or CDS 151 Data Ethics in an Inform Society ³	1	Literature requirement	3
Total Credits	15	Total Credits	17

³Not required if CDS 130 was taken

⁴One of the following: CLIM 314 Severe and Extreme Weather, GGS 312/CLIM Physical Climatology

3rd Year - Junior Year

Fall Semester		Spring Semester	
CLIM 429 Atmospheric Thermodynamics	3	CLIM 411 Atmospheric Dynamics	3
MATH 214 Elementary Differential Equations	3	HIST requirement	3
Course from Option ⁵	3	CDS 302 Scientific Data and Databases ⁷	3
CLIM elective ⁶	3	CLIM elective ⁴	3
Arts requirement	3		
Total Credits	15		12

⁵One of the following: CDS 251 Introduction to Scientific Programing, CDS 301 Scientific Information and Data Visualization, CDS 303 Scientific Data Mining

⁶One of the following: CLIM 319 Air Pollution, CLIM 412 Physical Oceanography

⁷Not required if any of CDS options was taken in the fall

4th Year - Senior Year

Fall Semester		Spring Semester	
GEOL 420 Earth Science and Policy ⁸	3	CLIM 440 Elective ¹⁰	3
CLIM 470 Numerical Weather Prediction	3	PHYS 475 Atmospheric Physics	3
Global Understanding requirement	3	CLIM 408 ¹¹ Senior Research	3
CLIM Elective ^{6,9}	3-6	CLIM Elective ^{4,9}	3-6
Total Credits	12-15	Total Credits	12-15

⁸Mason Core: Synthesis course

⁹CLIM 409 Research Internship

¹⁰CLIM 440 Climate Dynamics, CLIM 456 Introduction to Atmospheric Radiation

¹¹Writing Intensive (WI) course in the major