

**GEORGE MASON UNIVERSITY  
COLLEGE OF SCIENCE  
B.S. DEGREE IN ATMOSPHERIC SCIENCES (122 Research I, 703-993-5394)  
<https://cos.gmu.edu/aoes/academics/atmos-sci/>  
2017-2018 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>MASON CORE REQUIREMENTS (27)</u></b>			
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		_____	_____
b. Oral Communication: COMM 100 or 101 (please circle choice) (3)		_____	_____
c. Quantitative Reasoning (satisfied by <b>MATH 113</b> and <b>STAT 250</b> )		_____	_____
d. Literature (3)	_____	_____	_____
e. Arts (3)	_____	_____	_____
f. Western Civilization (3)	_____	_____	_____
g. Social & Behavioral Science (3)	_____	_____	_____
h. Natural Science (satisfied by <b>major requirements</b> )		_____	_____
i. Global Understanding (3)	_____	_____	_____
j. Information Technology ( <b>may be satisfied by completion of major requirements</b> )		_____	_____
k. Synthesis (may be satisfied by completion of major requirements) (3)	_____	_____	_____
Go to: <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> to link to information on Mason Core requirements.			

**ATMOSPHERIC SCIENCE CORE (24 hours required)**

a. <b>CLIM 102</b> (4)		a. _____	_____
b. <b>CLIM 111, CLIM 112</b> (3,1)		b. _____	_____
c. CLIM 301 (4)		c. _____	_____
d. CLIM 408 (3) (writing intensive course)		d. _____	_____
e. CLIM 411 (3)		e. _____	_____
f. CLIM 429 (3)		f. _____	_____
g. PHYS 475 (3)		g. _____	_____

**OTHER SCIENCE, COMPUTER SCIENCE, MATHEMATICS, STATISTICS (29-30 hours required)**

a. <b>CHEM 211, 213</b> (3,1)		a. _____	_____
b. PHYS 160, PHYS 161 (3,1)		b. _____	_____
c. PHYS 260, PHYS 261 (3,1)		c. _____	_____
d. <b>CS 112</b> (4) or <b>CDS 130</b> (3)		d. _____	_____
e. <b>MATH 113</b> (4)		e. _____	_____
f. MATH 114 (4)		f. _____	_____
g. MATH 213 (3)		g. _____	_____
h. <b>STAT 250</b> (3)		h. _____	_____

**OPTIONS Select one of the following: (9 hours required)**

a. Meteorology Option (9)			
1. CLIM 312 (3) or GGS 312 (3) (circle choice)		1. _____	_____
2. CLIM 314 (3) or GGS 314 (3) (circle choice)		2. _____	_____
3. CLIM 319 (3) or GGS 319 (3) (circle choice)		3. _____	_____
b. Computational Atmospheric Sciences Option (9)			
1. CLIM 440 (3) or CLIM 470 (3) (circle choice)		1. _____	_____
2. CDS 251 (3) or CDS 301 (3) or CDS 302 (3) or CDS 303 (3) (circle choice)		2. _____	_____
3. MATH 214 (3)		3. _____	_____

**REQUIRED ELECTIVES (9)** The 9 credits of required electives must be chosen from this list and be independent of courses taken in the selected option (meteorology or computational atmospheric sciences) (list courses)  
 CLIM 312 (3) or GGS 312; CLIM 314 (3) or GGS 314 (3); CLIM 319 (3) or GGS 319 (3); CLIM 409 (3); CLIM 412 (3); CLIM 429 (3); CLIM 438 (3); CLIM 440 (3); CLIM 470 (3); GEOL 420 (3); CDS 251 (3); CDS 301 (3); GGS 354 (3); GGS 455 (3); GGS 456 (3); MATH 214 (3)

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**GENERAL ELECTIVES:** Maximum 2 credits of PHED, PRLS, and RECR coursework toward a COS degree.

Only MLSC 400 and MLSC 402 may be used for credit towards a COS degree. (List courses)

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**MINIMUM 120 HOURS (including Minimum 45 UPPER DIVISION HOURS) to GRADUATE**

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2017-2018 Catalog; the University Catalog is the official reference for program requirements.

# COURSE LISTS (ATMOSPHERIC SCIENCES)

## Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take MATH 113. See this web site for more information: [http://math.gmu.edu/placement\\_test.php](http://math.gmu.edu/placement_test.php)

Literature: ARAB 325; CHIN 310, 311, 325, 328; CLAS 250, 260, 340, 350, 360, 380; ENGH 201, 202, 203, 204; FREN 325, 329; FRLN 330; GERM 325; ITAL 320, 325; JAPA 340; KORE 311; PHIL 253; RELI 235; RUSS 325, 326, 327; SPAN 325

Arts: ARTH 101, 102, 103, 200, 201, 203, 204, 321, 322, 324, 333, 334, 335, 340, 341, 342, 344, 345, 360, 362, 370, 372, 373, 376; AVT 103, 104, 215, 222, 232, 243, 252, 253, 262, 272, 385; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 325, 331, 345, 425, 445, 390, 391; ENGH 370, 371, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 280, 301, 302, 380, 381, 382, 383, 384, 385, 387, 389, 485; PHIL 156; THR 101, 150, 151, 210, 230, 395, 411, 412.

Western Civilization: HIST 100 or 125; transfer students may substitute: the following courses for HIST 100: HIST 101, 102, 301, 302, 304, 305, 306, 308, 309, 312, 314, 322, 388, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 363, 372, 396; BUS 100; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 367; EDUC 203, 372; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; TOUR 311; WMST 200

Natural Sciences: **CLIM 102, 111, 112; CHEM 211/213; PHYS 160/161, 260/261**

Global Understanding: ANTH 302, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332; ARTH 319, 320, 380, 382, 383, 384, 385, 386; BUS 200; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; FAVS 300; FRLN 331; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 357, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MBUS 305; MUSI 103, 431; PHIL 243; PROV 105; PSYC 379; RELI 100, 211, 212, 313, 315, 320, 322, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322, 466; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: CDS 130 **or** CS 112 and one of the following: CDS 151, CEIE 409, CS 105, ENGR 107, IT 304, PHIL 112 (CDS 151 or CS 105 recommended)

Synthesis/Capstone: ANTH 400; ARAB 351, 440; ARTH 394; ASTR 402; ATEP 441; AVT 385, 497, 498; BAS 491; BENG 492, 493; BINF 354; **BIOL 301, 379**; BIS 490; BUS 498; CEIE 490; CHIN 318, 355, 475; COMM 326, 362, 454; CONF 490; CONS 490, 491; CRIM 495; CS 306; CYSE 493; DANC 490; ECE 492, 493; ECON 309; EDCI 490; ENGH 401, 417, 458, 470, 484, 486, 495; EVPP 378, 480; FAVS 352, 496, 497, 499; FRLN 385; GAME 490; GCH 465; **GEOL 420**; GLOA 400; GGS 303, 304; GOVT 490, 491; HAP 465, 489, 498; HDFS 400; HIST 300, 499; INTS 308; IT 492, 493; KINE 490; LAS 499; MATH 400; ME 444; MUSI 324, 424, 490, 491, 495; NURS 465; PHED 415; PHIL 309, 343, 377, 378, 379, 421, 422; PHYS 346, 407; PRLS 490; PROV 342; PSYC 405, 406, 427; RELI 490; RHBS 499; RUSS 353; SOCI 377, 483, 485; SOCW 375, 472; SPAN 388; SPMT 490; STAT 490; SYST 495; THR 440, 496; TOUR 490

