

**GEORGE MASON UNIVERSITY**  
**COLLEGE OF SCIENCE**  
**B.S. DEGREE IN ASTRONOMY (203 Planetary Hall, 703-993-1280)**  
<http://physics.gmu.edu/bs-in-astronomy/>  
**2017-2018 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b>MASON CORE REQUIREMENTS (*30)</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 ( <b>satisfied by completions of major requirements</b> )			
d. Literature (3)		___ ___	___ ___
e. Arts (3)	_____	___ ___	___ ___
f. Western Civilization (3)	_____	___ ___	___ ___
g. Social & Behavioral Science (3)	_____	___ ___	___ ___
h. Natural Science ( <b>satisfied by completions of major requirements</b> )			
i. Global Understanding (3)	_____	___ ___	___ ___
j. Information Technology (3)	_____	___ ___	___ ___
k. Synthesis (satisfied by <b>ASTR 402</b> )	_____	___ ___	___ ___

Go to: <http://catalog.gmu.edu/mason-core/> to link to information on Mason Core requirements.

**MAJOR REQUIREMENTS (52 Credits in physics and astronomy and 14 creds in math)**

a. ASTR 210 (3)	a. _____	___ ___
b. ASTR 328 (3)	b. _____	___ ___
c. <b>ASTR 402</b> (writing intensive course) (3)	c. _____	___ ___
d. Two of the following: ASTR 403, 404, 428 (circle choices) (3,3)	d. _____	___ ___
e. <b>PHYS 160</b> (3)	e. _____	___ ___
f. <b>PHYS 161</b> (1)	f. _____	___ ___
g. <b>PHYS 260</b> (3)	g. _____	___ ___
h. <b>PHYS 261</b> (1)	h. _____	___ ___
i. PHYS 262(3)	i. _____	___ ___
j. PHYS 263 (1)	j. _____	___ ___
k. PHYS 303 (3)	k. _____	___ ___
l. PHYS 305 (3)	l. _____	___ ___
m. PHYS 308 (3)	m. _____	___ ___
n. Fourteen hours of Mathematics as follows:(14)		
1. <b>MATH 113</b> , 114 (4,4)	1. _____	___ ___
2. MATH 213, 214 (3,3)	2. _____	___ ___
o. Fifteen hours from the following (at least twelve hours must be in upper-level courses): ASTR 301, 408, PHYS 306, 307, 402, (ASTR 403 or ASTR 404, or PHYS 428, if not picked for d. above), any other ASTR or PHYS course with the permission of the department (list courses) (15)		
1. _____	1. _____	___ ___
2. _____	2. _____	___ ___
3. _____	3. _____	___ ___
4. _____	4. _____	___ ___
5. _____	4. _____	___ ___

**A GPA of 2.0 or better is required in major course work.**

**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)

_____	_____		
_____	_____		
_____	_____		
_____	_____		

**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 (ASTRONOMY, BS)

## COURSE LISTS Mason Core Requirements

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

**Oral Communication:** COMM 100 or COMM 101

**Quantitative Reasoning: 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, 333; RUSS 325, 326, 327; SPAN 325

**Arts:** ARTH 101, 102, 103, 200, 201, 203, 204, 206, 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; GCH 325; 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:** PHYS 160/161, 260/261

**Global Understanding:** ANTH 302, 306, 307, 308, 309, 312, 313, 316, 331, 332, 382; ARTH 319, 320, 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: One of these courses:** ANTH 395, CDS 130, CS 100, GOVT 300, HIST 390, IT 104, MIS 303, MUSI 259 **or Course(s) from a) and one course from b):** a) AVT 180; CS 112; PHYS 251; PSYC 300, 301, & 372 (all three must be taken and in sequence); SOCI 410 b) CDS 151, CEIE 409, CS 105, ENGR 107, IT 304, PHIL 112

**Synthesis/Capstone:** ASTR 402

**Note:** Students do not have to meet each requirement with a separate course; i.e. it is possible that a single course may be used to fulfill more than one college requirement; a single course may fulfill a Mason Core requirement and a college requirement; a course may fulfill a Mason Core requirement and/or a college requirement and a requirement for the major.