

**GEORGE MASON UNIVERSITY**  
**COLLEGE OF SCIENCE**  
**B.A. DEGREE IN BIOLOGY (1200 Exploratory Hall, 703-993-1050)**  
<http://biology.gmu.edu/>  
**2016-2017 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 (circle choice) (3)		_____	_____
c. Quantitative Reasoning (satisfied by completion of major requirements)			
d. Literature (3)		_____	_____
e. Arts (3)		_____	_____
f. Western Civilization (3)		_____	_____
g. Social & Behavioral Science (3)		_____	_____
h. Natural Science (satisfied by completion of major requirements)			
i. Global Understanding (3)		_____	_____
j. Information Technology (satisfied by completion of major requirements)			
k. Synthesis (3)		_____	_____

Go to: <http://masoncore.gmu.edu/> to link to information on Mason Core requirements.

**COLLEGE REQUIREMENTS (\*18)**

- a. Foreign Language: Intermediate level in a single foreign language.
- b. Philosophy or Religious Studies (3) (not PHIL 323 or 324)
- c. Three credits in social & behavioral sciences in addition to the university-wide requirement in social & behavioral science for a total of 6 credits. The two courses used to fulfill the combined college and university requirements must be from different disciplines. This requirement may be fulfilled by completing any course in ANTH, CRIM, ECON, GOVT, HIST (except 100 or 125), LING, PSYC, or SOCI & these courses in GGS: 101, 103, 110, 301, 303, 304, 305, 306, 315, 316, 320, 325, 330, 357, 380
- d. Non-Western Culture (3)

\*The number of hours needed to fulfill Mason Core requirements may vary; see the University Catalog for information. The two courses used to fulfill the college and university requirements for social & behavioral sciences must be from different disciplines.

**MAJOR REQUIREMENTS (52-53 hours required)**

- |   |                   |                   |
|---|-------------------|-------------------|
| a. BIOL 213 (4) (grade of C or better required to advance to other core requirements)   | a. _____          | _____             |
| b. BIOL 214 (4) (grade of C or better required)   | b. _____          | _____             |
| c. BIOL 311 (4) (grade of C or better required)   | c. _____          | _____             |
| d. BIOL 308 (writing intensive course) (5) (grade of C or better required)  | d. _____          | _____             |
| e. BIOL 310 (3) and BIOL 330 (2) (grade of C or better required)  | e. _____          | _____             |
| f. Ten credits of biol. electives (list course #) (six credits must be upper division; one upper division course must include a lab) (10)     |                   |                   |
| 1. BIOL _____ 2. BIOL _____   | 1. _____ 2. _____ | 1. _____ 2. _____ |
| 3. BIOL _____   | 3. _____          | _____             |
| g. CHEM 211/213, CHEM 212/214 (3,1/3/1)   | g. _____          | _____             |
| h. One of the following (circle choice(s)): MATH 111 or 113 or both 123 and 124 (3-6)   | h. _____          | _____             |
| i. CDS 130 (recommended) or any course(s) that fulfill the IT Mason Core requirement (3)  | i. _____          | _____             |
| j. Other Science: Six to eight hours from the following: ASTR 103, 111, 113; GEOL 101, 102; PHYS 243, 245; PHYS 160, 260 (list courses) (6-8) |                   |                   |
| 1. _____ 2. _____   | 1. _____ 2. _____ | _____             |

**NOTES:** Students must earn a minimum GPA of 2.0 in the 32 credits of Biology courses and a minimum GPA of 2.0 in supporting course work. No more than four credits of BIOL 103 or 104 may be applied toward elective credit (or equivalent transfer credit at the 100-200 level) if taken before successful completion of BIOL 213. Students may not count BIOL 124 and 125 toward any Biology major requirement. Students who take BIOL 310 and BIOL 330 may not count BIOL 303 and/or 304 toward Biology major requirements.

A 27-credit undergraduate certificate is available only to students pursuing a BA or BS in Biology. Students who complete both the BA or BS in Biology and this undergraduate certificate will be considered *Virginia state-approved educator preparation program completers* and will be eligible for recommendation for an initial VA teaching license in Secondary Education (6-12) Biology. For more information: [http://catalog.gmu.edu/preview\\_program.php?catoid=29&pooid=30238](http://catalog.gmu.edu/preview_program.php?catoid=29&pooid=30238)

**GENERAL ELECTIVES** (List courses)

_____	_____	_____
_____	_____	_____
_____	_____	_____

**MINIMUM HOURS TO GRADUATE: 120**

**UPPER DIVISION HOURS (minimum 45):**

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2016-2017 Catalog; the University Catalog is the official reference for program requirements.

# COURSE LISTS (BIOLOGY, BA)

## Mason Core Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 111, 113, or 123 & 124. The Math Placement Test is required to take MATH 113 and MATH 123. 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, 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: BIOL 213, CHEM 211/213, CHEM 212/214

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; 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 (**CDS 130 recommended**)

Synthesis: ANTH 400; ARTH 394; AVT 385, 497, 498; BENG 492, 493; BINF 354; BIOL 301; BIS 490; BUS 498; CEIE 490; COMM 326, 362, 454; CONF 490; CONS 490, 491; CRIM 495; CS 306; DANC 490; ECE 492, 493; ECON 309; EDCI 490; EVPP 480; FAVS 352; FRLN 385; GAME 490; GCH 465; GEOL 420; GGS 303, 304; GOVT 490, 491; HAP 465; HDF5 400; HIST 300, 499; INTS 308; IT 492; LAS 499; MATH 400; MUSI 490; NURS 465; PHIL 309, 343, 377, 378, 379; PHYS 346; PROV 342; PSYC 405, 406, 427; RELI 490; RUSS 353; SOCI 377, 483; SOCW 375; SPAN 388; SYST 495; THR 440, 496

## Additional Requirements

Foreign Language: Demonstrated intermediate-level proficiency in one foreign language. See this web site for more information: <http://chss.gmu.edu/general-education/foreign-language-requirement> (EDSE 115, 116, and 219—ASL--may also be used)

Philosophy or Religious Studies: This can be fulfilled by any course in philosophy or religious studies except for PHIL 323 and 324.

Social Sciences: This can be fulfilled by any course in ANTH; CRIM; ECON; GOVT; HIST (except 100 or 125); LING; PSYC; SOC; or GGS 101, 103, 110, 301, 303, 304, 305, 306, 315, 316, 320, 325, 330, 357, 380.

Non-western Culture: ANTH 114, 300, 301, 302, 306, 307, 308, 309, 313, 314, 316, 323, 330, 332, 381, 383, 396; ARAB 420, 440; ARTH 203, 204, 319, 320, 380, 382, 383, 384, 385, 386, 482; CHIN 318, 320, 325; DANC 118; ECON 361, 362; FREN 451, 454; GGS 101, 316, 325, 330, 399; GOVT 328, 332, 333, 340, 341, 345, 432, 433; HIST 251, 252, 261, 262, 271, 272, 281, 282, 326, 327, 328, 329, 353, 354, 356, 357, 358, 360, 364, 365, 366, 367, 387, 426, 460, 461, 462, 465; JAPA 310, 340; MUSI 103; RELI 211, 212, 240, 272, 313, 314, 315, 337, 365, 374, 375, 379, 387, 490; RUSS 353, 354.

**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 university requirement and a college requirement; a course may fulfill a Mason Core requirement and/or a college requirement and a requirement for the major.**