# GEORGE MASON UNIVERSITY
## COLLEGE OF SCIENCE
### B.S. DEGREE IN BIOLOGY - CONCENTRATION IN Environmental & Conservation Biology
(1200 Exploratory Hall, 703-993-1050)

**http://biology.gmu.edu/**
2017-2018 CATALOG

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

# MAJOR REQUIREMENTS (76-77)

a. Twenty-two credits in biology core courses (22)
   1. BIOL 213 (4) (grade of C or better required to advance to other core requirements)
   2. BIOL 214 (4) (grade of C or better required)
   3. BIOL 311 (4) (grade of C or better required)
   4. BIOL 308 (writing intensive course) (grade of C or better required)
   5. BIOL 310 (3) and BIOL 330 (2) (grade of C or better required)

b. Environmental and Conservation Biology Concentration Courses (16)
   1. BIOL 318 (3)
   2. BIOL 377 (3)


d. Eighteen credits of chemistry (18)
   1. CHEM 211, CHEM 212 (4,4)
   2. CHEM 313, CHEM 315 (3,2)
   3. CHEM 314, CHEM 318 (3,2)
   e. PHYS 243/244 and PHYS 245/246 or PHYS 160/161 and PHYS 260/261 (3/1, 3/1)
   f. One course from (circle choice): MATH 111(3) or MATH 113 (4) or MATH 123 & 124 (3,3)
   g. CDS 130 (recommended) or any course(s) that fulfills the IT Mason Core requirement (3)

g. Notes:
   Students must earn a minimum GPA of 2.0 in their Biology course work and a minimum GPA of 2.0 in supporting course work. No more than eight credits of BIOL 103 or 106/107 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/or 125 toward any Biology major requirement, Students who take BIOL 310 may not count BIOL 303 and/or 304 toward any Biology major requirement.

# 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)

<table>
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<tr>
<th>Courses</th>
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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 (BIOLOGY, BS)

Mason Core Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 111, 113, 123 and 124, The Math Placement Test is required to take MATH 108, 113, 115, 123, and 125. See this web site for more information: 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


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: BIOL 213, CHEM 211/213, CHEM 212/214

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 325; GGS 101; GOVT 132, 133; HIST 251, 252, 261, 262, 271, 272, 281, 282, 285, 301, 329, 356, 357, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MBUS 305; MUSI 100; RUSS 325; SOCI 101, 352, 355; TOUR 311; WMST 200

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/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; EDCC 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