

**GEORGE MASON UNIVERSITY  
COLLEGE OF SCIENCE**

**B.S. DEGREE IN BIOLOGY (3005 David King Hall, 703-993-1050)**

<http://cos.gmu.edu/academics/undergraduate/majors/biology>

**2012-2013 CATALOG**

|   | <u>Department(s) &amp; Course #(s)</u> | <u>Completed/<br/>Grade(s)</u> | <u>Needed</u> |
|---|--|--------------------------------|---------------|
| <b>GENERAL EDUCATION REQUIREMENTS (27)</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://chss.gmu.edu/general-education/all-requirements> to link to information on general education requirements.

**MAJOR REQUIREMENTS (44 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 (5) (grade of C or better required)   | e. _____ | _____ |
| f. Twenty-two credits of biology electives (list course #) (at least 14 credits must be upper division; two upper division courses must include a lab) (22) |          |       |
| 1. BIOL _____   | 1. _____ | _____ |
| 2. BIOL _____   | 2. _____ | _____ |
| 3. BIOL _____   | 3. _____ | _____ |
| 4. BIOL _____   | 4. _____ | _____ |
| 5. BIOL _____   | 5. _____ | _____ |
| 6. BIOL _____   | 6. _____ | _____ |

**OTHER SCIENCE AND TECHNOLOGY (30-36)**

|   |          |       |
|---|----------|-------|
| a. CHEM 211, CHEM 212 (4,4)   | a. _____ | _____ |
| b. CHEM 313, CHEM 315 (3,2)   | b. _____ | _____ |
| c. CHEM 314 & CHEM 318 (please circle choice) (3,2) <b>OR</b><br>GEOL 101 and GEOL 102 (4,4) <b>OR</b><br>One additional three-credit chemistry course at the 300 or 400 level (not CHEM 314) | c. _____ | _____ |
| d. PHYS 243/244 and PHYS 245/246 or PHYS 160/161 and PHYS 260/261 (3/1, 3/1)  | d. _____ | _____ |
| e. One course from (circle choice): MATH 111 (3), 113 (4), 114 (4)  | e. _____ | _____ |
| f. CDS 130 (recommended) or any course that fulfills the IT general education requirement (3)   | f. _____ | _____ |

**NOTES:** Students must earn a minimum GPA of 2.0 in the 44 credits of Biology courses and a minimum GPA of 2.0 in supporting course work. No more than eight 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 may not count BIOL 303 and/or 304 toward any Biology major requirement.

**GENERAL ELECTIVES (13-19) (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 2012-2013 Catalog; the University Catalog is the official reference for program requirements.

# COURSE LISTS (BIOLOGY, BS)

## University General Education Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 111 or 113 (The Math Placement Test is required to take a MATH course. See this web site for more information: [http://cos.gmu.edu/academics/undergraduate/math\\_placement\\_testing](http://cos.gmu.edu/academics/undergraduate/math_placement_testing))

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 325; 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, 372, 373, 376; AVT 103, 104, 215, 222, 232, 243, 252, 253, 262, 272; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 390, 391; ENGH 370, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 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 or 125: HIST 101, 102, 202, 301, 302, 304, 305, 306, 308, 309, 314, 322, 387, 388, 435, 436, 480.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 396; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 110, 111 (110 and 111 must be taken together); EDUC 372; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101; SOM 100; TOUR 311; WMST 200

Natural Sciences: CHEM 211 & 212

Global Understanding: ANTH 302, 304, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 130, 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MSOM 305; MUSI 103, 431; PHIL 243; PSYC 379; RELI 100, 211, 212, 313, 315, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322; SYST 100; THR 359, TOUR 210; WMST 100

Information Technology: ANTH 395, CDS 130, CHEM 350, CEIE 117, GOVT 300, HIST 390, IT 103, MUSI 415

Synthesis: ANTH 400; ARTH 394; AVT 497, 498; BINF 354; BIOL 301; BIS 490; CEIE 490; COMM 326, 362, 454; CONF 490; CONS 490; CRIM 495; CS 306; DANC 490; ECE 447, 492, 493; ECON 309; EDCI 490; ENGH 305; EVPP 335; FAVS 352; FRLN 385; GEOL 420; GGS 303, 304; GOVT 490, 491; HAP 465; HIST 300, 499; IT 492; LAS 499; MATH 400; MUSI 490; NCLC 308; NURS 265; PHIL 309, 343, 377, 378; PSYC 405, 406; RELI 490; RUSS 353; SOCI 377, 483; SOCW 323, SOM 498; SPAN 388; SYST 495; THR 440, 496; PROV 342; UNIV 442