Biology Department Curriculum

GEORGE FOX UNIVERSITY

B.A., Biology Major

- Biology Core Requirements (10-12 hours)
  - *Option 1*
    - BIOL 211, 212 – General Biology (8)
    - BIOL 490 – Biological Explorations (2)
  - *Option 2*
    - BIOL 331, 332 – Human Anatomy & Physiology (8)
    - BIOL 220 – Fundamentals of Cellular & Organismal Biology (2)
    - BIOL 490 – Biological Explorations (2)

- Biology Elective (20 hours)
  One course from each of the four emphasis areas listed below. Courses listed in more than one emphasis area can be used to meet the requirement for both areas. The remaining elective hours can be met with any upper-division BIOL course except BIOL 331, 332.
  - Group 1(Field Studies): Ecology BIOL 360 (4), Ornithology BIOL 380 (4), Systematic Botany BIOL 390 (4), or Invertebrate Zoology BIOL 460 (4)
  - Group 2 (Diversity): Comparative Vertebrate Anatomy BIOL 322 (4), Microbiology BIOL 370 (4), Ornithology BIOL 380 (4), Systematic Botany BIOL 390 (4), or Invertebrate Zoology BIOL 460 (4)
  - Group 3 (Form/Function): Developmental Biology BIOL 310 (4), Pathophysiology BIOL 320 (3), Comparative Vertebrate Anatomy BIOL 322 (4), Advanced Physiology BIOL 333 (4), Plant Physiology BIOL 340 (4), or Advanced Human Anatomy BIOL 440 (4)
  - Group 4 (Molecular/Cell): Genetics BIOL 350 (4), Microbiology BIOL 370 or Essentials of Microbiology BIOL 367 (4), Molecular Biology BIOL 410 (4), or Cell Biology BIOL 420 (4)

- Chemistry Requirements (8-12)
  - *Option 1*
    - CHEM 151, 152 – General, Organic, & Biochemistry (8)
  - *Option 2 (choose 2)*
    - CHEM 211, 212 – General Chemistry (8)
    - CHEM 331 – Organic Chemistry (4)

- Math Requirements (3 hours)
  - MATH 180 – College Algebra (3) or above

  *If MATH 180 requirement is satisfied upon admission, MATH 240 – Statistical Procedures (3) is required.

- Liberal Art Emphasis (14-16 hours):
  1. Cultural and Global Diversity
     - *Option 1*
       - FREN 201, 202 – Intermediate French (8) and FREN 301, 302 – Intermediate/Advanced French (8) OR SPAN 201, 202 – Intermediate Spanish (8) and SPAN 301, 302 – Intermediate/Advanced Spanish (8)
     - *Option 2*
       - FREN 201, 202 – Intermediate French (8) OR SPAN 201, 202 – Intermediate Spanish (8) OR JPNS 201, 202 – Second Year Japanese (6)
       - 6-9 hours of Cultural/Global understanding electives (9 hours if Japanese is selected).

2. Art
   - ARTS 101 – Basic Design I (3)
   - Choose 12 ARTS electives from the following:
     - Drawing I ARTS 111
     - Drawing II ARTS 112
     - Beginning Painting ARTS 201
     - Beginning Sculpture ARTS 221
     - Beginning Photography ARTS 230
     - Introduction to Graphic Design ARTS 250
     - Intermediate Painting ARTS 301
     - Intermediate Sculpture ARTS 321
     - Intermediate Photography ARTS 330
     - Graphic Design 2 ARTS 350
     - Illustration ARTS 360
     - Advanced Painting ARTS 401
     - Advanced Sculpture ARTS 421
     - Advanced Photography ARTS 430
     - Graphic Design 3 ARTS 450
     - Field Experience ARTS 475 (up to 3 hours)
3. Sociology
   - SOCI 150 – Principles of Sociology (3)
   - 12 hours of SOCI electives
4. Philosophy
   - PHIL 210 – Introduction to Philosophy (3)
   - 12 hours of PHIL electives
5. Political Science
   - PSCI 150 – Introduction to Political Science (3)
   - 12 hours of PSCI electives
6. Christian Ministries
   - CHMN 130 – Christian Discipling (3)
   - 12 hours of CHMN/RELI electives
7. Writing and Literature
   - Two 200-level or above LITR courses (6)
   - 9 hours from the following:
     - Practical Grammar and Editing WRIT 210
     - Journalism WRIT 230
     - Autobiography/Biography WRIT 250
     - Professional Writing and Design WRIT 310
     - Writing for Publication WRIT 330
8. Psychology
   - PSYC 150 (3) – General Psychology
   - PSYC 310 (3) - Lifespan Human Development
   - 9 to 10 hours of PSYC electives

<u>Summary of hours:</u>

Biology Core	10
Biology Electives	20
Chemistry	8
Math	3
Liberal Arts Emphasis	14-16
Total	**55-57**

(Revised 11/22/10)