

# DEPARTMENT OF BIOLOGY

COLLEGE OF ARTS AND SCIENCES

Faculty

Mark Bolyard

- I. Major in Biology—42-48 hours
  - A. General Biology Concentration/Independent Research Option—42-44 hours
    - 1. BIO 112, 302, 425, 426, 437, and 498—8 hours
    - 2. BIO 211, 213, 214, 215, and 315—20 hours
    - 3. Four 300-level BIO courses—14 hours minimum
  - B. General Biology Concentration/Collaborative Research Option—45-47 hours
    - 1. BIO 112, 302, 415, and 498—7 hours
    - 2. BIO 211, 213, 214, 215, and 315—20 hours
    - 3. Five 300-level BIO courses—18 hours minimum
  - C. Zoology Concentration/Independent Research Option—43-44 hours
    - 1. BIO 112, 302, 425, 426, 437, and 498—8 hours
    - 2. BIO 213, 214; 200 or 211—12 hours
    - 3. BIO 316, five -300 level BIO excluding 307, 309, 322 & 337—23 hours minimum
  - D. Zoology Concentration/Collaborative Research Option —47-48 hours
    - 1. BIO 112, 302, 415, and 498—7 hours
    - 2. BIO 213, 214; 200 or 211—12 hours
    - 3. BIO 316, six 300-level BIO excluding 307,309, 322 & 337—27 hours minimum
- II. Major in Cell and Molecular Biology
  - A. Independent Research Option—72–74 hours
    - 1. BIO 112, 211; 214 or 215—12 hours
    - 2. BIO 302, 315, 323, 325, 397—15 hours
    - 3. Three of BIO 307, 309, 310, 316, 317, 320 or 321—12 hours
    - 4. One 300-level BIO Elective—3 or 4 hours
    - 5. CHE 111, 112, 314, 315, 324, 326, 319, 329—26 hours
    - 6. BIO 425, 426 and 437—3 hours
    - 7. No minor is required
  - B. Collaborative Research Option—74–76 hours
    - 1. BIO 112, 211; 214 or 215—12 hours
    - 2. BIO 302, 315, 323, 325, 397—15 hours
    - 3. Three of BIO 307, 309, 310, 316, 317, 320 or 321—12 hours
    - 4. One 300-level BIO Elective—3 or 4 hours
    - 5. CHE 111, 112, 314, 315, 324, 326, 319, 329—26 hours
    - 6. .BIO 415 and one-300 level BIO Elective course—5-6 hours
    - 7. No minor is required
- III. Major in Conservation Biology—52 hours
  - Prerequisites or Corequisites: CHE 111; PHY 112 or higher; 3 MAT courses 111 or higher
  - A. BIO 112, 200, 213, 214, 215—20 hours
  - B. BIO 302, 303, 305, 315, 318, 335, 336, 337, and Conservation Ethics and Law (under development)—28 hours
  - C. BIO 425, 426, 437, 498—4 hours
  - D. No minor is required.
- IV. Teacher Licensure in Biology (Grades 7-12)
  - A.





<p>426. Research Experience I (1) F, S, Su, W Prerequisite: BIO 425 or 415, minimum BIO GPA of 2.0. Students may only take this course during Winter or Summer if the student is also registered for Experience I (428) for a Fall or Spring Semester. Individual research in accordance with the proposal developed and approved in 425. Students will attend all presentations in BIO 437. Course is not available by Audit.</p> <p>428. Research Experience II (1) F,S Prerequisite: BIO 425 and minimum BIO GPA of 2.0; Corequisite: BIO 437. Continuation of individual research initiated during BIO 426. Course is graded Pass/Fail and is not available for Audit.</p>	<p>437. Research Presentation (1) F, S Prerequisite: BIO 426, minimum BIO GPA of 2.0. Presentation of results of 426 as a publishable manuscript and oral presentation. Not available by audit.</p> <p>498. Biology Seminar (1) F, S Prerequisite: 28 hours toward BIO major, a minimum BIO GPA of 2.0, senior standing. Written and oral presentation of a library research paper and weekly discussions of current biological research. May be modified at the discretion of the department. Not available by audit.</p>
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<p>179-279-379-479. External Domestic Study Programs (1-3) As Needed All courses and their applications must be defined and approved prior to registering.</p> <p>180-280-380-480. Study Abroad Programs (1-4) All courses and their application must be defined and approved prior to travel.</p> <p>195-6-7. Special Studies (1-4) 295-6-7. Special Studies (1-4) Lower-level group studies that do not appear in the regular departmental offerings.</p>	<p>395-6. Special Studies (1-4) Upper-level group studies that do not appear in the regular departmental offerings.</p> <p>397. Special Studies in Cell and Molecular Biology (3) Upper-level group studies that do not appear in the regular departmental offerings.</p> <p>495-6-7. Independent Study (1-4) Individual research under the guidance of a faculty member(s).</p>
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