Preparing Educators who are Scholars and Leaders

The Following:

- BIO 111 (4) Foundations of Biology
- BIO 210, 211, 212, or 213 (4) Genetics; Molecular Genetics; Human Genes; or Population Genetics & Evaluation
- BIO 222 (4) Research and Analysis (Prereq: any Furman BIO course)
- BIO 300 (4) Cell Biology (Prereq: BIO 222 and CHM 110. CHM 120 recommended)

One of the Following:

- BIO 340 (4) Ecology (Prereq: BIO 222)
- BIO 341 (2) Tropical Ecology (Prereq: BIO 111 and permission of instructor)
- BIO 342 (2) Field Studies in Tropical Ecology (Prereq: BIO 341)
- BIO 343 (4) Environmental Systems (Prereq: BIO 111, CHM 110, EES 110, 111, 112 or 113)

One of the Following:

- BIO 320 (4) Animal Physiology (Prereq: BIO 222)
- BIO 321 (4) Plant Physiology (Prereq: BIO 222)
- BIO 322 (4) Human Physiology (Prereq: BIO 111)

The Following:

- BIO 075 (0) Seminar in Biology (Prereq: permission of instructor)

Plus At Least Four Electives (4 Courses) From the Following:

- BIO 301 (4) Microbiology (Prereq: BIO 221)
- BIO 303 (4) Biochemistry of the Cell (Prereq: BIO 222 and CHM 120)
- BIO 400 (4) Field Botany (Prereq: BIO 111)
- BIO 401 (4) Applied Plant Science (Prereq: BIO 111)
- BIO 420 (4) Comparative Anatomy and Embryology (Prereq: BIO 111)
- BIO 421 (4) Invertebrate Zoology (Prereq: BIO 222)
- BIO 422 (4) Field Zoology (Prereq: BIO 222)
- BIO 423 (4) Marine Biology (Prereq: Any BIO course and permission of instructor)
- BIO 425 (4) Developmental Biology (Prereq: BIO 221 and 222)
- BIO 426 (4) Human Anatomical Systems (Prereq: BIO 222, CHM 120, and PHY-111 recommended)

Courses Outside the Department:

- CHM 110 (4) Foundations of Chemistry
- CHM 115 (4) Kinetics, Thermodynamics and the Environment (Prereq: CHM 110)
- CHM 120 (4) Conservation Biology (Prereq: BIO 222)
- PHY 111 (4) Physical Chemistry (Prereq: CHM 115)
- General Physics I (Prerequisites: MTH 150 strongly recommended)

One of the Following:

- MTH 110 (4) Finite Mathematics
- MTH 150 (4) Analytic Geometry and Calculus I (Prereq: appropriate placement)
- MTH 120 (4) Introduction to Statistics
- MTH 145 (4) Calculus for Management, Life and Social Sciences

One of the Following:

- EES 112 (4) Environmental Science
- EES 115 (4) Earth Systems

Professional Preparation:

- EDU 111 (4) Perspectives on American Education (EDU 001 Lab included)
- EDU 120 (4) Human Development
- EDU 221 (4) Students with Exceptionalities (Prerequisites: EDU 111 and 120)

Senior Year (Prerequisites: EDU 111, 120, 221):

- EDU 350 (2) Curriculum and Methods of Teaching in Grades 9-12 (Fall Term of Senior Year)

Spring Term of Senior Year (16 Credit Hours):

- EDU 433 (3) Foundations of Literacy Instruction
- EDU 434 (3) Content Literacy Strategies and Modifications for Diverse Learners
- EDU 454 (4) Teaching Science in Grades 9-12
- EDU 460 (2) Critical Issues in Secondary Education
- EDU 472 (4) Practicum: Secondary Teaching

Note: EDU-433 and EDU-434 satisfy the requirements outlined in South Carolina's Read to Succeed legislation.

Teaching Internship (Fall Term After Graduation):

- EDEP 470 (6) Teaching Internship

The Following (See Education Department):

- Apply for Admission to Furman Teacher Education Program.
- Effective September 1, 2019, Praxis Core Academic Skills for Educators: Reading (Test Code 5713); Writing (Test Code 5723); and Mathematics (Test Code 5733) to be taken prior to junior year. (Note: Teacher candidates who have certain SAT and/or ACT scores may be exempt from taking Praxis Core. Please refer to https://www.furman.edu/academics/education/program-overview/program-admission/ for exemption requirements).
- *Praxis Test (Computerized): Biology: Content Knowledge (Test Code 5235 -- SC minimum score required: 148) to be taken no later than January 1 of the senior year (Registration information provided in August of the senior year).
- *Praxis Test (Computerized): Principles of Learning & Teaching (PLT) Grades 7-12 (Test Code 5624) (SC minimum required score: 157) to be taken no later than March 15 of the senior year.
- *NOTE: Passing scores for both the Praxis Content and PLT exams must be on record to enter the Internship following graduation.
- Apply for Approved South Carolina Teacher Certification in Biology (Application and fingerprinting information provided Fall of the senior year).

Revised November 9, 2020