Preparation Area Preparation, Physics:

- PHY 105 (4) Descriptive Astronomy
- PHY 111 (4) General Physics I (Prerequisites: MTH 150 strongly recommended)
- PHY 112 (4) General Physics II (Prerequisites: PHY 111 and MTH 150. MTH 151 strongly recommended)
- PHY 241 (4) Introduction to Modern Physics (Prerequisite: PHY 112) to be taken concurrently with MTH 160
- PHY 311 (4) Classical Mechanics I (Prerequisite: PHY 112)
- PHY 312 (4) Classical Mechanics II (Prerequisite: PHY 311)
- PHY 321 (4) Electromagnetic Theory I (Prerequisite: PHY 112)
- PHY 322 (4) Electromagnetic Theory II (Prerequisite: PHY 321)
- PHY 331 (4) Thermodynamics and Statistical Mechanics (Prerequisite: PHY 241)

*Bold indicates course sequence for PHY 311/312 and PHY 321/322*

Required Courses Beyond the Physics Department:

- MTH 150 (4) Analytic Geometry and Calculus I (Prerequisite: appropriate placement)
- MTH 151 (4) Analytic Geometry and Calculus II (Prerequisite: MTH 150)
- MTH 160 (4) Vectors and Matrices (Prerequisite: MTH 151)
- BIO 111 (4) Foundations of Biology
- CHM 110 (4) Foundations of Chemistry

Professional Preparation:

- EDU 111 (4) Perspectives on American Education (EDU 001 Lab included)
- EDU 120 (4) Human Growth and Development
- EDU 221 (4) Education of Students with Exceptionalities (Prerequisites: EDU 111, 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 435 (4) Teaching Science in Grades 9-12
- EDU 460 (2) Critical Issues in Secondary Education
- EDU 472 (4) Practicum: Secondary Teaching

Teaching Internship (Fall Term after graduation):

- EDEP 670 (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 [http://www2.furman.edu/academics/education/Documents/TEP%20ApplicationChecklist.pdf](http://www2.furman.edu/academics/education/Documents/TEP%20ApplicationChecklist.pdf) for exemption requirements).
- Praxis Test (Computerized): Physics: Content Knowledge (Test Code 5265 - SC required minimum score: 130) 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 and Teaching Grades 7-12 (Test Code 5624 - SC required minimum score: 157) to be taken no later than March 15 of the senior year (Registration information provided in August 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 Licensure in Physics (Application and fingerprinting information provided Fall of the senior year).