

Science Education, Physics (9-12) Concentration 2024-2025

| Freshman Year | | | | | | |
|--|---|---------|--|----------------------|---|---------|
| Fall | | | | Spring | | |
| Course Number | Course Title | Credits | | Course Number | Course Title | Credits |
| UNV 1000 | Freshman Seminar | 1 | | ENG 1060 | Composition II | 3 |
| ENG 1050 | Composition I | 3 | | General Education | Social Science | 3 |
| MAT 2210 | Calculus I | 4 | | CHM 1300 | General Chemistry I | 3 |
| BIO 1000 | Principles of Biology | 3 | | CHM 1100 | General Chemistry Laboratory I | 1 |
| BIOL 1000 | Laboratory Investigation and Experiences in General Biology | 1 | | General Education | Fine Art | 3 |
| General Education | Social Science | 3 | | MAT 2220 | Calculus II | 4 |
| General Education | Physical Education | 1 | | | | |
| Total Credits | | 16 | | Total Credits | | 17 |
| Sophomore Year | | | | | | |
| <ul style="list-style-type: none"> • Keep your grades high. You need a 2.7 GPA for admission to the Teacher Education Program • Study for the Praxis CORE if you do not have the SAT or ACT scores for exemption from taking the Praxis Core. • Plan to take Praxis CORE during the Fall of your Sophomore year • Plan to apply to Admission to Teacher Education Program Spring of Sophomore year <ul style="list-style-type: none"> ○ You must have a 2.7 GPA or higher ○ You must have successful completion of EDN 2100 ○ You must have less than 9 hours of General Education courses remaining ○ You must have passing Praxis Core, SAT or ACT scores | | | | | | |
| Fall | | | | Spring | | |
| Course Number | Course Title | Credits | | Course Number | Course Title | Credits |
| EDN 2100 | Introduction to Education | 3 | | EDN 3140 | Aspects of Human Development and Educational Psy (6-12) | 3 |
| General Education | History | 3 | | PHY 2000 | University Physics I | 3 |
| General Education | Social Science | 3 | | PHY 2060 | University Physics I Lab | 1 |
| CHM 1310 | General Chemistry II | 3 | | SED 3310 | Introduction to Exceptional Children | 3 |
| CHM 1110 | General Chemistry Laboratory II | 1 | | PHS 1560 | Astronomy | 3 |
| General Education | Literature | 3 | | PHS 1570 | Astronomy Lab | 1 |
| General Education | Physical Education | 1 | | | | |
| Total Credits | | 17 | | Total Credits | | 14 |

*****ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED*****

Twelve hours of natural sciences and mathematics within this degree count toward general education requirements. For this reason, it is important that students only take those natural sciences and mathematics course required by the degree program.

QPA Requirements for Baccalaureate Graduation: "Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at the University of North Carolina at Pembroke; Have a minimum overall cumulative quality point average of 2.0 in the major field of study"

| Junior Year | | | | | | |
|---|--|---------|----------------------|---|---------|--|
| • Apply for the Professional Semester and Graduation during the Spring of Junior Year | | | | | | |
| Fall | | | Spring | | | |
| Course Number | Course Title | Credits | Course Number | Course Title | Credits | |
| BIO 1010 or BIO 1020 | General Botany or General Zoology | 4 | GLY 1150 | Earth Science | 3 | |
| General Education | Elective-Arts and Humanities or Social Sciences | 3 | GLYL 1150 | Earth Science Lab | 1 | |
| PHY 2010 | University Physics II | 3 | SCE 3010 | Early Laboratory Experiences for Prospective Science Teachers | 2 | |
| PHY 2070 | University Physics II Lab | 1 | PHY 2560 | Modern Physics | 4 | |
| PHY 3000 | Classical Mechanics | 3 | *EDN 3130 | Content Area Literacy | 3 | |
| SCE 3000 | Early Experiences for Prospective Science Teachers | 1 | PHY 2180 | Optics | 3 | |
| Total Credits | | 15 | Total Credits | | 16 | |

| Senior Year | | | | | | |
|--------------------------|--|---------|----------------------|--|---------|--|
| Fall | | | Spring | | | |
| Course Number | Course Title | Credits | Course Number | Course Title | Credits | |
| PHY 3260 | Heat and Temperature | 3 | SCE 4490 | Internship in Science in Middle/ Secondary Schools | 9 | |
| SCE 4000 | Teaching Science in the Secondary School | 3 | SCE 4750 | Professional Seminar in Science in Middle/ Secondary Science | 3 | |
| PHY 4200 | Advanced Laboratory | 3 | | | | |
| General Education | Philosophy and Religion | 3 | | | | |
| University Wide Elective | | 1 | | | | |
| Total Credits | | 13 | Total Credits | | 12 | |

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