

## Curriculum Guide for AS to B.S.Ed. Science: Physics at WCU

## Freshman/First Year

| 1st Semester*                       |                       |         |              |                | 2nd Semester              |                       |         |              |                |
|-------------------------------------|-----------------------|---------|--------------|----------------|---------------------------|-----------------------|---------|--------------|----------------|
| Fall                                |                       |         |              |                | Spring                    |                       |         |              |                |
| CC Course                           | WCU Course Equivalent | LS Cat. | Credit Hours | Required/Notes | CC Course                 | WCU Course Equivalent | LS Cat. | Credit Hours | Required/Notes |
| ENG 111                             | ENGL 101              | C1      | 3            |                | ENG 112                   | ENGL 202              | C1      | 3            |                |
| MAT 171                             | MATH 130              | C2      | 4            | Required       | COM 231                   | COMM 201              | C3      | 3            | Preferred      |
| History (Social/Behavioral Science) | History               | P3      | 3            | Preferred      | MAT 172                   | MATH 146              |         | 4            | Required       |
| BIO 111 (Natural Science)           | BIOL 140              | C5      | 4            | Required       | BIO 112 (Natural Science) | BIOL 141              |         | 4            | Required       |
| ACA 122                             | USI 130               |         | 1            |                | Social/Behavioral Science | Social Sciences       | P1      | 3            |                |
| Total Credit Hours                  |                       |         |              |                | Total Credit Hours        |                       |         |              |                |
| 15                                  |                       |         |              |                | 17                        |                       |         |              |                |

\*This assumes placement into college level courses. This is only meant to be a guide. Please see your academic advisor to develop your individual plan.

## Sophomore/Second Year

| 3rd Semester       |                       |         |              |                | 4th Semester                        |                          |           |              |                |
|--------------------|-----------------------|---------|--------------|----------------|-------------------------------------|--------------------------|-----------|--------------|----------------|
| Fall               |                       |         |              |                | Spring                              |                          |           |              |                |
| CC Course          | WCU Course Equivalent | LS Cat. | Credit Hours | Required/Notes | CC Course                           | WCU Course Equivalent    | LS Cat.   | Credit Hours | Required/Notes |
| EDU 216**          | EDCI 201              |         | 3            | Required       | CHM 152                             | CHEM 140                 |           | 4            | Required       |
| MAT 271            | MATH 153              |         | 4            | Required       | PHY 152                             | PHYS 131                 |           | 4            | Required       |
| CHM 151            | CHEM 139              | C5      | 4            | Required       | HEA 110/PED 110/<br>Other Electives | Wellness                 | C4        | 3            |                |
| PHY 151            | PHYS 130              |         | 4            | Required       | Humanities/<br>Fine Arts            | Humanities/<br>Fine Arts | P4/<br>P5 | 3            |                |
| Total Credit Hours |                       |         |              |                | Total Credit Hours                  |                          |           |              |                |
| 15                 |                       |         |              |                | 14                                  |                          |           |              |                |

\*\* Students should plan to take the Praxis Core Academic Skills for Educator Exam during their EDU 216 semester to fulfill requirements for admission to the Teacher Education Program

Suggested Course Sequence to transfer from NCCCS

**Junior/Third Year (at WCU)**

5th Semester

Fall

6th Semester

Spring

| WCU Course         | Course Title                                       | Credit Hours | Notes | WCU Course         | Course Title                       | Credit Hours | Notes |
|--------------------|--|--------------|-------|--------------------|------------------------------------|--------------|-------|
| SCI 150            | Intro to Secondary Science Education               | 1            |       | GEOL 145           | Climate Change and Water Resources | 3            |       |
| GEOL 151           | Earth: Geology, Resource, Hazards, and Environment | 4            |       | PHYS 310           | Modern Physics                     | 3            |       |
| MATH 255           | Calculus II  | 4            |       | SCI 301            | Nature of Science                  | 3            |       |
| PHYS 300-400 level | PHYS Upper Level                                   | 4            |       | PHYS 325/CHEM 352  | Thermo./Phys Chem I                | 3            |       |
| Elective           |  | 3            |       | SPED 240           | The Exceptional Child              | 3            |       |
| Total Credit Hours |  |              |       | Total Credit Hours |                                    |              |       |
| 16                 |  |              |       | 15                 |                                    |              |       |

Depending on hours and grades, a summer semester may be advisable.

**Senior/Fourth Year**

7th Semester

Fall

8th Semester

Spring

| WCU Course         | Course Title                               | Credit Hours | Notes | WCU Course         | Course Title                           | Credit Hours | Notes |
|--------------------|--|--------------|-------|--------------------|--|--------------|-------|
| SCI 422            | Principles & Methods of Science Education  | 3            |       | SCI 491            | Supervised Student Teaching in Science | 3            |       |
| PHYS 380           | Research in Physics                        | 2            |       | EDSE 485           | Supervised Student Teaching            | 6            |       |
| GEOL 141           | Earth History and Prehistoric Life         | 3            |       | EDSE 495           | Seminar                                | 3            |       |
| EDCI 430           | Culturally Responsive Classroom Management | 3            |       |                    |  |              |       |
| EDSE 483           | Sec/Spec Sub Area Intern I                 | 2            |       |                    |  |              |       |
| Elective           |  | 3            |       |                    |  |              |       |
| Total Credit Hours |  |              |       | Total Credit Hours |  |              |       |
| 16                 |  |              |       | 12                 |  |              |       |

Reminder: 30 hours of 300-400 level courses must be taken at WCU.

Program website: [ScienceBSED.wcu.edu](http://ScienceBSED.wcu.edu)

For Academic Advising questions, please visit: [Suite 201.wcu.edu](http://Suite201.wcu.edu)