

**CLEAR PATH for ADVISING – Middle Grades Education: Natural Sciences, B.S. 2021-2022**

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

| <b>First Year – 32-33 Hours</b>  |            |   |            |
|--|------------|---|------------|
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| BIOL 1110/1110L: <i>Principles of Biology I/Lab</i> (Nat Sci)  | 4          | BIOL 1120/1120L: <i>Principles of Biology II/Lab</i> (Nat Sci)                        | 4          |
| MATH 1830: <i>Calculus for Mgmt, Life &amp; Social Sciences</i> (Math)                                 | 3          | EDUC 2010: <i>Education in the US</i>   | 3          |
| ENGL 1010 or 1011 (Rhetoric and Writing I)   | 3-4        | ENGL 1020 (Rhetoric and Writing II)   | 3          |
| FAH: Historical Understanding  | 3          | FAH: Literature   | 3          |
| Non-Western Culture  | 3          | Statistics  | 3          |
|  | 16-17      |   | 16         |
| <b>Second Year – 34 Hours</b>  |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| CHEM 1110/1110L: <i>General Chemistry I/Lab</i>  | 4          | CHEM 1120/1120L: <i>General Chemistry II/Lab</i>                                      | 4          |
| PHYS 1030/1030L: <i>General Physics - Mechanics &amp; Heat/Lab</i>                                     | 4          | PHYS 1040/1040L: <i>General Physics - Electromagnetism &amp; Optics/Lab</i>           | 4          |
| FAH: Thought, Values and Beliefs   | 3          | EDUC 2420: <i>Adolescent Development</i>  |            |
| FAH: Visual and Performing Arts  | 3          | EDUC 3170: <i>Designing Instruction for the Inclusive Classroom</i>                   | 3          |
| Behavioral and Social Science  | 3          | Behavioral and Social Science   | 3          |
|  | 17         |   | 17         |
| <b>Third Year – 28 Hours</b>   |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| EDUC 2200: <i>Survey of Exceptional Learners</i>   | 3          | ENGL 4810: <i>Writing for Teachers</i>  | 3          |
| ESC 1500/1500L: <i>Intro to Environmental Science/Lab</i>  | 4          | EDUC 4180: <i>Curriculum &amp; Instruction</i>  | 3          |
| ASTR 1010/1010L: <i>Intro to Astronomy - The Solar System/Lab</i>                                      | 4          | EDUC 4220: <i>Literacy Instruction in the Intermediate Grades &amp; Middle School</i> | 3          |
| GEOL 1110/1110L: <i>Physical Geology/Lab</i>   | 4          | EDUC 4140: <i>Classroom Management</i>  | 3          |
|  |            | EDUC 3900: <i>Field Experience</i>  | 1          |
|  | 14         |   | 13         |
| <b>Fourth Year – 27 Hours</b>  |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| EDUC 4540: <i>Teaching Strategies &amp; Materials in Secondary &amp; Middle Grades Natural Science</i> | 3          | EDUC 4465: <i>Residency II</i>  | 10         |
| EDUC 4335: <i>Designing Instruction &amp; Assessment</i>   | 3          | EDUC 4420: <i>Professional Seminar</i>  | 2          |
| EDUC 4170: <i>Technology &amp; Learning</i>  | 3          |   |            |
| EDUC 4320: <i>Residency I</i>  | 6          |   |            |
|  | 15         |   | 12         |

| <b>Completed:</b>                   |            |  |            |
|-------------------------------------|------------|--|------------|
| <b>Graduation Requirements:</b>     | <b>Hrs</b> | <b>Degree Requirements:</b>              | <b>Hrs</b> |
| 120 Total Hours                     |            | 27-28 General Education Hours            |            |
| 39 Upper Division (3000-4000) Hours |            | 94 Program (Major) Hours                 |            |
| 30 Hours at UTC                     |            | Minor ( <i>Not Required</i> )            |            |
| 60 Hours at 4-year Institution      |            | Elective Hours ( <i>Not Required</i> )   |            |
|                                     |            | Foreign Language ( <i>Not Required</i> ) |            |