

**CLEAR PATH for ADVISING – Middle Grades Education: Natural Sciences, B.S. 2020-2021**

[Please see the Courses section of this catalog for complete 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> )	