

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2021-2022**

(For assistance completing this form, contact Advising Services at 806-651-5300)

**NAME:** \_\_\_\_\_ **WT ID:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Science (Grades 7-12) Certification**  
**Department of Life, Earth and Environmental**  
**Sciences – NSB 348A 651-2570**

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>
<b>Communication (Core 10)</b>		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
<b>Mathematics (Core 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Core 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Core 40)</b>		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312**/**, 2313*, 2315*, or 2371 <b>Choose 1</b>	3	
<b>Creative Arts (Core 50)</b>		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 <b>Choose 1</b>	3	
<b>American History (Core 60)</b>		
HIST 1301, 1302, 2301, 2381, 2382 <b>Choose 2</b>	6	
<b>Government/Political Science (Core 70)</b>		
POSC 2305 and 2306	6	
<b>Social and Behavioral Sciences (Core 80)</b>		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 <b>Choose 1</b>	3	
<b>Component Area Option (Core 90)</b>		
See University Core Requirements below	(6)	
<b>SCIENCE (GRADES 7-12) CERTIFICATION REQUIREMENTS: 94-102 HOURS</b> A grade of "C" or better and a 2.75 GPA is required.▲		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS</b>		
<b>CORE 20</b> MATH 1314* College Algebra	3	
<b>CORE 30</b> PHYS 1401*[3] General Physics I <b>AND</b> PHYS 1402*[3] General Physics II	6	
<b>CORE 90</b> ENGL 1302* Research and Rhetoric <b>OR</b> ENGL 2311* Introduction to Professional and Technical Communication	3	
<b>CORE 90</b> PHYS 1401L[1], PHYS 1402L[1] <b>and</b> Fourth hour from Life and Physical Sciences (e.g., CHEM 1411L), or IDS 1071	3	
<b>SCIENCE REQUIREMENTS: 53-60 HOURS</b> (A grade of "C" or better and a 2.75 GPA is required.▲)		
BIOL 1411, 1411L Botany <b>AND</b> BIOL 1413, 1413L Zoology	8	
BIOL 2420*, 2420L Applied Microbiology <b>OR</b> BIOL 2572*, 2572L Microbiology	4-5	
BIOL 3301 Genetics	3	
BIOL 3440, 3440L Anatomy and Physiology of Humans	4	
BIOL 4510, 4510L General Ecology <b>OR</b> BIOL 4513, 4513L Plant Ecology	5	
<b>Choose one course from two separate areas:</b>		
<b>Area One:</b> BIOL 3420, 3420L Natural History of Vertebrates BIOL 4431, 4431L Ichthyology BIOL 4432, 4432L Herpetology <b>cont.→</b>		

**Bachelor of Science Degree**  
**Major: Biology**  
**BS.SCIENCE.EDS (446) – TExES Exams: 160, 236**

BIOL 4433, 4433L Ornithology BIOL 4434, 4434L Mammalogy <b>Area Two:</b> BIOL 3331 Parasitology BIOL 3311* Arthropods and Public Health BIOL 3510, 3510L Entomology BIOL 4460, 4460L Arachnology <b>Area Three:</b> BIOL 3385 Marine Biology BIOL 3304* Evolution BIOL/GEOL 3406*, 3406L Paleontology BIOL 3532*, 3532L Plant Classification BIOL 4335 Animal Behavior BIOL 4351* Conservation Biology BIOL 4425, 4425L Limnology	6-10	
CHEM 1411*, 1411L Chemistry I	4	
CHEM 1412*, 1412L Chemistry II	4	
CHEM 2533*, 2533L Elementary Organic Chemistry	5	
GEOL 1401, 1401L Earth Science I	4	
GEOL 1402, 1402L Earth Science II <b>OR</b> GEOG/GESC 3313 Meteorology	3-4	
PHYS 1411, 1411L Planetary Astronomy <b>OR</b> GESC 3310*, 3310L Minerals and Rocks	3-4	
<b>OTHER DEGREE REQUIREMENTS: 3-4 HOURS</b>		
<b>Take one of the following:</b> MATH 1316* Plane Trigonometry MATH 1342 Elementary Statistical Methods MATH 2412* Pre-Calculus Math <b>OR</b> MATH 3360* Statistical Methods	3-4	
<b>EDUCATION REQUIREMENTS: 27 HOURS</b> (A grade of "C" or better and a 2.75 GPA is required.▲)		
EPSY 4341 Educator Readiness and Performance	3	
EDPD 4340* Classroom Management	3	
EDRD 4386 Secondary Reading in Content Area	3	
EDPD 4330 Educational Methodology and Diverse Learners	3	
EDPD 4348 – Data-Informed Instruction and Assessment	3	
EDPD 4398 Clinical Teaching –ALL	3	
EDSE 4341* Clinical Teaching—Secondary	3	
EPSY 3341* Educational Psychology	3	
EPSY 3350 Children with Special Needs	3	
<b>MINIMUM HOURS REQUIRED TO COMPLETE DEGREE 121</b>		

♦ NOTE: The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

\* Indicates prerequisites—see catalog for more information.

\*\* Or an equivalent course (second year, second semester) in a foreign language.  
 NOTE: At least 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU. A maximum of six semester hours in religion (REL) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

▲Transfer & WT GPA combined must be 2.75.

**NOTE: This is NOT a degree plan. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.**

**WTAMU ADVISING SERVICES**  
**2021-2022 Curriculum Guide**

**Major:** Science (Grades 7-12) Certification, B.S.

**Major Code:** 446

<b>First Year</b> <span style="font-weight: normal; font-size: small;">Boldface type indicates major requirements</span>	
<b>Fall</b>	<b>Spring</b>
CORE 10(1) - ENGL 1301 <span style="float: right;">3</span>	<b>CORE 90 - ENGL 1302 or 2311</b> <span style="float: right;">3</span> <small>(required for major)</small>
<b>CORE 20 - MATH 1314</b> <span style="float: right;">3</span>	<b>BIOL 1413/1413L</b> <span style="float: right;">4</span> <small>(if not taken for Core 20)</small>
<b>BIOL 1411/1411L</b> <span style="float: right;">4</span>	<b>PHYS 1401</b> <span style="float: right;">3</span>
CORE - See checklist for options <span style="float: right;">3</span>	CORE 90 - PHYS 1401L <span style="float: right;">1</span>
CORE - See checklist for options <span style="float: right;">3</span>	CORE - See checklist for options <span style="float: right;">3</span>
	CORE - See checklist for options <span style="float: right;"> </span>
<b>Semester Hours</b> <span style="float: right;">12-13</span>	<b>Semester Hours</b> <span style="float: right;">17</span>

<b>Second Year</b>	
<b>Fall</b>	<b>Spring</b>
<b>PHYS 1402</b> <span style="float: right;">3</span>	<b>CHEM 1412/1412L</b> <span style="float: right;">4</span>
<b>CHEM 1411/1411L</b> <span style="float: right;">4</span>	<b>BIOL 2420 or 2572</b> <span style="float: right;">4-5</span>
GEOL 1401/1401L <span style="float: right;">4</span>	<b>BIOL 3301</b> <span style="float: right;">3</span>
CORE 90 - PHYS 1402L <span style="float: right;">1</span>	GEOL1402 or GEOG/GESC 3313 <span style="float: right;">3-4</span>
MATH 1316, 1342, 2412, 3360 <span style="float: right;">3-4</span>	CORE - See checklist for options <span style="float: right;">3</span>
CORE - See checklist for options <span style="float: right;"> </span>	
<b>Semester Hours</b> <span style="float: right;">14-16</span>	<b>Semester Hours</b> <span style="float: right;">14-16</span>

<b>Third Year</b>	
<b>Fall</b>	<b>Spring</b>
<b>CHEM 2333/2533L</b> <span style="float: right;">5</span>	<b>BIOL 3440/3440L</b> <span style="float: right;">4</span>
<b>PHYS 1411 or GESC 3310</b> <span style="float: right;">3-4</span>	<b>EDRD 4386</b> <span style="float: right;">3</span>
<b>EPSY 3350</b> <span style="float: right;">3</span>	<b>EPSY 3341</b> <span style="float: right;">3</span>
<b>Choose One from Area 1, 2, or 3</b> <span style="float: right;">3-5</span> <small>See Note Below</small>	<b>EDPD 4330</b> <span style="float: right;">3-5</span>
CORE - See checklist for options <span style="float: right;">3</span>	<b>Choose One from Area 1, 2, or 3</b> <span style="float: right;">3-5</span> <small>See Note Below</small>
<b>Semester Hours</b> <span style="float: right;">17-18</span>	<b>Semester Hours</b> <span style="float: right;">16-19</span>

<b>Fourth Year</b>	
<b>Fall</b>	<b>Spring</b>
<b>BIOL 4510 or 4513</b> <span style="float: right;">5</span>	<b>EDPD 4398</b> <span style="float: right;">3</span>
<b>EPSY 4341</b> <span style="float: right;">3</span>	<b>EDSE 4341</b> <span style="float: right;">3</span>
<b>EDPD 4340</b> <span style="float: right;">3</span>	
<b>EDPD 4348</b> <span style="float: right;">3</span>	
CORE - See checklist for options <span style="float: right;">3</span>	
<b>Semester Hours</b> <span style="float: right;">14-17</span>	<b>Semester Hours</b> <span style="float: right;">6</span>

**Degree Total Hours 120**

**DISCLAIMER:** This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

**Identified Marketable Skills:**

**Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities**

**Prerequisites/Important Sequences/Other degree Notes:**

**NOTE:** Choose two courses from TWO separate areas:

AREA 1: BIOL 3420, 4431, 4432, 4433, 4434

AREA 2: BIOL 3331, 3311, 3510, 4460

AREA 3: BIOL 3385, 3304, 3406( or GEOL 3406), 3532, 4335, 4351, 4425