West Texas A&M University **Advising Services Degree Checklist** 2023-2024

(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

CORE CURRICULUM COURSES: 42 HOURS ◆ Communication (Core 10)		
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ENOLAGOA Lata da A. L. L. MARINE CO.		
ENGL 1301 Intro. to Academic Writing & Argumentation OR	3	
ENGL 1311 Writing About Ideas		
COMM 1315, 1318, or 1321	3	
Mathematics (Core 20)	(2)	
See University Core Requirements below Life and Physical Sciences (Core 30)	(3)	
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Core 40)	(-)	
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371	3	
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Core 60)	6	<u> </u>
HIST 1301, 1302, 2301, 2381, 2382 Choose 2 Government/Political Science (Core 70)	6	
` '		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Core 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; GEOG 1302; PSYC 2301; SOCI 1301	3	
Component Area Option (Core 90)	(0)	
See University Core Requirements below SCIENCE (GRADES 7-12) CERTIFICATION REQUIREMI	(6)	
94-102 HOURS A grade of "C" or better and a 2.75 GPA is required.^		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS	1 1	
MATH 1314* College Algebra	3	
CORE 30 PHYS 1401*[3] General Physics I AND PHYS 1402*[3] General Physics II	6	
CORE 90 ENGL 1302* Research and Rhetoric OR ENGL 2311* Introduction to Professional and Technical Communication	3	
CORE 90 PHYS 1401L[1], PHYS 1402L[1] and	3	
Fourth hour from Life and Physical Sciences (e.g., CHEM 1411L), or IDS 1071	3	
SCIENCE REQUIREMENTS: 53-60 HOURS (A grade of "C" or better and a 2.75 GPA is required.^)		
BIOL 1411, 1411L Botany AND BIOL 1413, 1413L Zoology	8	
BIOL 2420*, 2420L Applied Microbiology OR BIOL 2572*, 2572L Microbiology	4-5	
BIOL 3301 Genetics	3	
	4	
BIOL 3440, 3440L Anatomy and Physiology of Humans		
BIOL 3440, 3440L Anatomy and Physiology of Humans BIOL 4310, 4210L General Ecology	5	
BIOL 4310, 4210L General Ecology Choose one course from two separate areas:	5	
BIOL 4310, 4210L General Ecology	5	

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

BS.SCIENCE.EDS (446) – TEXES Exams: 160), 23	6
BIOL 4433, 4433L Ornithology BIOL 4434, 4434L Mammalogy Area Two: BIOL 3331 Parasitology BIOL 3311* Arthropods and Public Health BIOL 3510, 3510L Entomology BIOL 4460, 4460L Arachnology Area Three: 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 OR GEOG/GESC 3313 Meteorology	3-4	
PHYS 1411, 1411L Planetary Astronomy OR GESC 3310*, 3310L Minerals and Rocks	3-4	
OTHER DEGREE REQUIREMENTS: 3-4 HOURS		
Take one of the following: MATH 1316* Plane Trigonometry MATH 1342 Elementary Statistical Methods MATH 2412* Pre-Calculus Math OR MATH 3360* Statistical Methods	3-4	
EDUCATION REQUIREMENTS: 27 HOURS (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 & Diverse	3	
EDPD 4348 Data-Informed Instruction and Assessment	3	
EDPD 4398 Clinical Teaching – All Certificate Areas	3	
EDSE 4341* Clinical Teaching - Secondary	3	
EPSY 3341* Educational Psychology	3	
EPSY 3350 Children with Special Needs	3	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE * Indicates prerequisites—see catalog for more information	12	1

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

^{*} Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

**Transfer & WT GPA combined must be 2.75.

WTAMU ADVISING SERVICES - 2023-2024 Curriculum Guide

Major Code: 446

	Major:	Science	(7-12)	Cert. –	Biology,	B.S.
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Major: Science (7 12) Cert. Biology, B.S.		Major Couc. 440	
Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – PHYS 1401 General Physics I	3
CORE 20 (Mathematics) – MATH 1314	3	CORE 90 (Component Area Option) – PHYS 1401L	1
BIOL 1411/1411L Botany	4	CORE 90 (Component Area Option) – ENGL 1302, 1312 or 2311	3
CORE – See checklist for options ¹	3	BIOL 1413/1413L Zoology	4
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
		CORE – See checklist for options ¹	3
Total:	16	Total:	17
Year 2: Fall		Year 2: Spring	
CORE 30 (Life & Phys. Sci.) – PHYS 1402 General Physics II	3	CHEM 1412/1412L Chemistry II	4
CORE 90 (Component Area Option) - PHYS 1402L	1	BIOL 2420/2420L or 2572/2572L	4-5
CHEM 1411/1411L Chemistry I	4	BIOL 3301 Genetics	3
MATH 1316, 1342, 2412 or 3360	3-4	GEOL 1402/1402L or GEOG/GESC 3313	3-4
CORE – See checklist for options ¹	3	CORE - See checklist for options ¹	3
Total:	14-15	Total:	17-18
Year 3: Fall		Year 3: Spring	
CHEM 2533 Elementary Organic Chemistry	5	BIOL 3340/3340L Reproductive Physiology	3
PHYS 1411/1411L Planetary Astronomy or GESC 3310 Minerals and Rocks	3-4	EDRD 4386 Secondary Reading in the Content Area	3
EPSY 3350 Children with Special Needs	3	EPSY 3341 Educational Psychology	3
Choose one from Area 1, 2, or 3 ²	3-5	EDPD 4330 Educational Methodology & Diverse Learners	3
CORE – See checklist for options ¹	3	Choose one from Area 1, 2, or 3 ²	3-5
Total:	17-18	Total:	15-17
Year 4: Fall		Year 4: Spring	
BIOL 4310 General Ecology and BIOL 4210L Gen. Ecology Lab	5	EDPD 4398 Clinical Teaching – All Certificate Areas	3
EPSY 4341 Educator Readiness and Performance	3	EDSE 4341 Clinical Teaching - Secondary	3
EDPD 4340 Classroom Management	3		
EDPD 4348 Data-Informed Instruction and Assessment	3		
CORE – See checklist for options ¹	3		
Total:	17	Total:	6

¹ **CORE:** Science (7-12) Cert. majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

² 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

Identified Marketable Skills	Top Three Local Employers or Industries/Professional Programs/Possible Career	
	Opportunities	

Additional notes:

- 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.
- 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 (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

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.