

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:** _____

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

CORE CURRICULUM COURSES: 42 HOURS		HRS
Communication (Core 10)		
ENGL 1301 Intro. to Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Core 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Core 30)		
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 Choose 1	3	
Creative Arts (Core 50)		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Core 60)		
HIST 1301, 1302, 2301, 2381, 2382 Choose 2	6	
Government/Political Science (Core 70)		
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 Choose 1	3	
Component Area Option (Core 90)		
See University Core Requirements below	(6)	
LIFE SCIENCE—7-12 CERTIFICATION REQUIREMENTS: 83-89 HOURS A Grade of "C" or better and a 2.75 GPA is required.^		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS		
CORE 20 MATH 1314* or 1324*	3	
CORE 30 CHEM 1411*[3] Chemistry I	3	
CORE 30 CHEM 1412*[3] Chemistry II	3	
CORE 90 ENGL 1302* Research and Rhetoric OR ENGL 2311* Introduction to Professional and Technical Communication	3	
CORE 90 CHEM 1411L[1], 1412L[1] and Fourth hour from MATH 2412 (if taken for Core 20), or additional lab hour from Life and Physical Sciences (e.g., CHEM 1411L), or IDS 1071	3	
BIOLOGY REQUIREMENTS: 34-39 HOURS (A grade of "C" or better and 2.75 GPA is required.^)		
BIOL 1411, 1411L Botany	4	
BIOL 1413, 1413L Zoology	4	
BIOL 2420*, 2420L Applied Microbiology OR BIOL 2572*, 2572L Microbiology	4-5	
BIOL 3301 Genetics	3	
BIOL 3440, 3440L Anatomy and Physiology of Humans	4	
BIOL 4310, 4210L General Ecology	5	

Bachelor of Science Degree

Major: Biology

BS.BIOL.EDS (432) – TExES Exams: 160, 238

Choose one course in each of the following rows. At least two must have labs.		
BIOL 3420, 3420L Natural History of Vertebrates BIOL 4431, 4431L Ichthyology BIOL 4432, 4432L Herpetology BIOL 4433, 4433L Ornithology BIOL 4434, 4434L Mammalogy Choose 1	4	
BIOL 3331 Parasitology BIOL 3311* Arthropods and Public Health BIOL 3510, 3510L Entomology BIOL 4460, 4460L Arachnology Choose 1	3-5	
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 Choose 1	3-5	
OTHER DEGREE REQUIREMENTS: 7-8 HOURS		
MATH 1316* Plane Trigonometry MATH 1342 Elementary Statistical Methods MATH 2412* Pre-Calculus OR MATH 3360* Statistical Methods	3-4	
FOUR HOURS FROM SUPPORTING FIELDS (CIDM, Science or MATH)	4	
EDUCATION REQUIREMENTS: 27 HOURS (A grade of "C" or better and 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 Learners	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	
ELECTIVES: 4-10 HOURS ♦		
ELECTIVES As needed to provide a total of 120 hours.	4-10	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120	

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

^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 – 2023-2024 Curriculum Guide

Major: Life Science (7-12) Cert. – Biology, B.S.

Major Code: 432

Year 1: Fall	
CORE 10 (Communication) – ENGL 1301 or 1311	3
CORE 20 (Mathematics) – MATH 1314 or 1324	3
BIOL 1411/1411L Botany	4
CORE – See checklist for options ¹	3
Total:	13

Year 1: Spring	
CORE 90 (Component Area Option) – ENGL 1302, 1312 or 2311	3
CORE 30 (Life & Phys. Sci.) – CHEM 1411	3
CORE 90 (Component Area Option) – CHEM 1411L	1
BIOL 1413/1413L Zoology	4
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	17

Year 2: Fall	
BIOL 2572/2572L or 2420/2420L	4-5
CORE 30 (Life & Phys. Sci.) – CHEM 1412 Chemistry II	3
CORE 90 (Component Area Option) – CHEM 1412L	1
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	14-15

Year 2: Spring	
BIOL Requirement (see checklist for required courses)	3-5
BIOL Requirement (see checklist for required courses)	3-5
MATH 1316, 1342, 2412 or 3360	3-4
CORE – See checklist for options ¹	3
Total:	12-17

Year 3: Fall	
BIOL Requirement (see checklist for required courses)	3-5
BIOL Requirement (see checklist for required courses)	3-5
EPSY 3350 Children with Special Needs	3
CORE – See checklist for options ¹	3
Total:	12-16

Year 3: Spring	
BIOL Requirement (see checklist for required courses)	3-5
EDPD 4330 Educational Methodology & Diverse Learners	3
EDRD 4386 Secondary Reading in the Content Area	3
EPSY 3341 Educational Psychology	3
CORE – See checklist for options ¹	3
Total:	15-17

Year 4: Fall	
BIOL Requirement (see checklist for required courses)	3-5
EPSY 4341 Educator Readiness and Performance	3
EDPD 4340 Classroom Management	3
EDPD 4348 Data-Informed Instruction and Assessment	3
Total:	12-15

Year 4: Spring	
EDPD 4398 Clinical Teaching – All Certificate Areas	3
EDSE 4341 Clinical Teaching - Secondary	3
Total:	6

¹ **CORE:** Life 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.

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