

West Texas A&M University

Advising Services

Degree Checklist

2025-2026

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

Name: _____ WT ID: _____ Date: _____

Science (Grades 7-12) Certification (Biology B.S.)	
Department of Life, Earth and Environmental Sciences (NSB-106) (651-2570)	
Degree: Bachelor of Science (B.S.) See the "Requirements for Baccalaureate Degrees" section of the Catalog.	
Major: Biology	BS.SCIENCE.EDS
Major Code: 446	
***** A grade of "C" or better and a 2.75 overall GPA (WT and transfer) is required. *****	
University Core Curriculum Requirements (42 hours)	Semester Credit Hours
Core 10 - Communication (3 hours from ENGL options) • ENGL 1301 or ENGL 1311	3
Core 10 - Communication (3 hours from COMM options) • COMM 1315; COMM 1318; or COMM 1321	3
Core 20 - Mathematics (3 hours) • See Major-Specific University Core Requirements below	
Core 30 - Life and Physical Sciences (6 hours) • See Major-Specific University Core Requirements below	
Core 40 - Language, Philosophy and Culture (3 hours) • ANTH 2351; ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2311; HIST 2323; HIST 2372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or an equivalent course (second year or intermediate level) in a foreign language]; SPAN 2313; SPAN 2315; or SPAN 2371	3
Core 50 - Creative Arts (3 hours) • ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310	3
Core 60 - American History (6 hours) • HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382	3
Core 70 - Government / Political Science (6 hours) • POSC 2305 and POSC 2306	3
Core 80 - Social and Behavioral Sciences (3 hours) • AGBE 2317; COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC 2301; or SOCI 1301	3
Core 90 - Component Area Option (6 hours or fewer; may depend on major requirements) • See Major-Specific University Core Requirements below	

Biology Major Requirements (93 hours)			
***** C or better and 2.75 GPA required in all courses in Major Requirements *****			
Major-Specific University Core Requirements (15 hours)			
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.			
Core 20 - Mathematics (3 hours) • MATH 1314 - College Algebra	3		
Core 30 - Life and Physical Sciences (6 hours) • PHYS 1401, 1401L - General Physics I • PHYS 1402, 1402L - General Physics II (Lab hours will count towards Core 90.)	3	3	
Core 90 - Component Area Option (6 hours) • ENGL 1302 – Academic Writing and Research or ENGL 2311 – Introduction to Professional and Technical Communication • Lab hours from PHYS 1401L/1402L and fourth hour from MATH 2412 (if taken) or from fourth hour of other Core 30 course or from IDS 1071	3		
	1	1	1
Science Requirements (51-55 hours)			
***** C or better and 2.75 combined GPA for Major and Other Degree Requirements. *****			
BIOL 1411 - Botany	4		
BIOL 1413 - Zoology	4		
BIOL 2420 - Applied Microbiology or BIOL 2572 - Microbiology	4-5		
BIOL 3301 - Genetics	3		
BIOL 3340 - Reproductive Physiology	3		
BIOL 4310 - General Ecology	3		
BIOL 4210L - General Ecology Lab	2		
CHEM 1411 - Chemistry I	4		
CHEM 1412 - Chemistry II	4		
CHEM 2533 - Elementary Organic Chemistry	5		
GEOL 1301 - Earth Science I	3		
GEOL 1302 - Earth Science II or GESC 3313 - Meteorology	3		
PHYS 1311 - Planetary Astronomy or GESC 3310 - Minerals and Rocks	3		
Choose one course from <u>two separate areas</u>. At least two must have labs. Area One: BIOL 3420 - Natural History of Vertebrates BIOL 4431 - Ichthyology BIOL 4432 - Herpetology BIOL 4433 - Ornithology BIOL 4434 - Mammalogy	4		
Continued...			

Area Two: BIOL 3311 - Arthropods and Public Health BIOL 3331 - Parasitology BIOL 3510 - Entomology BIOL 4460 - Arachnology	3-5
Area Three: BIOL 3304 - Evolution BIOL 3385 - Marine Biology BIOL 3406 - Paleontology BIOL 3532 - Plant Classification BIOL 4335 - Animal Behavior BIOL 4351 - Conservation Biology BIOL 4425 - Limnology	3-5
Other Degree Requirements (3-4 hours)	
MATH 1316 - Plane Trigonometry or MATH 1342 - Elementary Statistical Methods MATH 2412 - Pre-Calculus Math MATH 3360 - Statistical Methods	3-4
Education Requirements (27 hours)	
***** C or better and 2.75 GPA required in Education Requirements. *****	
EPSY 3341 - Educational Psychology	3
EPSY 3350 - Children with Special Needs	3
EPSY 4341 - Educator Readiness and Performance	3
EDRD 4386 - Secondary Reading in the Content Area	3
EDPD 4330 - Educational Methodology and Diverse Learners	3
EDPD 4340 - Classroom Management	3
EDPD 4348 - Data-Informed Instruction and Assessment	3
EDPD 4398 - Clinical Teaching - All Certificate Areas	3
EDSE 4341 - Clinical Teaching - Secondary	3
Electives (4-10 hours)	
***** C or better required in all courses in the Major Subject *****	
Electives (as needed to provide a total of 120 hours, of which at least 36 must be advanced)	4-10
Total hours required to complete degree: 121 hours	
Depending on transfer credits and other substitutions/waivers, student may need to take additional electives as needed to total a minimum of 121 hours or the minimum total hours required for this degree, of which at least 36 must be advanced (3000/4000 level) and earned at WTAMU.	
Prerequisites	
Some courses may require prerequisites. See the University Catalog for more information.	

Advising Notes

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. In addition, this document is used as an advising resource. For official information, please refer to the University Catalog.