

WTAMU ADVISING SERVICES – 2025-2026 Curriculum Guide

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

Major Code: 446

Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – PHYS 1401/1401L General Phys. I (4 th hour goes toward Core 90)	4
CORE 20 (Mathematics) – MATH 1314	3	CORE 50 (Creative Arts) – See checklist for options ¹	3
CORE 60 (American History) – See checklist for options ¹	3	CORE 60 (American History) – See checklist for options ¹	3
CORE 70 (Govt./Political Sci.) – POSC 2306	3	CORE 90 (Comp. Area Opt.) – ENGL 1302 or 2311	3
CORE 90 (Comp. Area Opt.) – IDS 1071	1	BIOL 1413/1413L Zoology	4
BIOL 1411/1411L Botany	4		
Total:	17	Total:	17
Year 2: Fall		Year 2: Spring	
CORE 30 (Life & Phys. Sci.) – PHYS 1402/1402L General Phys. I (4 th hour goes toward Core 90)	4	BIOL 2420/2420L or BIOL 2572/2572L	4-5
CORE 70 (Govt./Political Sci.) – POSC 2305	3	BIOL 3301 Genetics	3
MATH 1316, 1342, 2412 or 3360	3-4	CHEM 1412/1412L Chemistry II	4
CHEM 1411/1411L Chemistry I	4	GEOL 1302/1302L or GEOG/GESC 3313	3
GEOL 1301/1301L Earth Science I	3	EPSY 3341 Educational Psychology	3
Apply to EPP (Educator Preparation Program)			
Total:	17-18	Total:	17-18
Year 3: Fall		Year 3: Spring	
CORE 40 (Lang., Phil. & Culture) – See checklist for options ¹	3	BIOL 3340/3340L Reproductive Physiology	3
CHEM 2523 Elementary Organic Chemistry	5	Choose one course from Area 1, 2 or 3 ²	3-5
PHYS 1311/1311L Planetary Astronomy or GESC 3310 Minerals and Rocks	3	EDPD 4348 Data-Informed Instruction and Assessment	3
Choose one course from Area 1, 2 or 3 ²	3-5	EDRD 4386 Secondary Reading in the Content Area	3
EDPD 4330 Educational Methodology & Diverse Learners	3	EPSY 4341 Educator Readiness and Performance	3
Total:	17-18	Total:	15-17
Year 4: Fall		Year 4: Spring	
CORE 10 (Communication) – COMM 1315, 1318 or 1321	3	EDPD 4398 Clinical Teaching – All Certificate Areas	3
CORE 80 (Soc. & Behav. Sci.) – See checklist for options ¹	3	EDSE 4341 Clinical Teaching – Secondary	3
BIOL 4310/4210L General Ecology	5		
EDPD 4340 Classroom Management	3		
EPSY 3350 Children with Special Needs	3		
Electives – As needed to meet the 120 hours requirement	TBD		
Total:	17+	Total:	6

¹ **CORE:** Science (7-12) Certification 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. At least two must have labs.**

- AREA 1: BIOL 3420, 4431, 4432, 4433, 4434
- AREA 2: BIOL 3311, 3331, 3510, 4460
- AREA 3: BIOL 3304, 3385, 3406 (or GEOL 3406), 3532, 4335, 4351, 4425

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.

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.