

WTAMU ADVISING SERVICES – 2025-2026 Curriculum Guide

Major: Physical Science (6-12) Cert. – Chemistry, B.S.

Major Code: 499

| Year 1: Fall | Year 1: Spring |
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| CORE 10 (Communication) – ENGL 1301 or 1311 3 | CORE 10 (Communication) – COMM 1315, 1318 or 1321 3 |
| CORE 20 (Mathematics) – MATH 1314 College Algebra 3 | CORE 30 (Life & Phys. Sci.) – CHEM 1412/1412L Chem. II (4 th hour goes toward Core 90) 4 |
| CORE 30 (Life & Phys. Sci.) – CHEM 1411/1411L Chem. I (4 th hour goes toward Core 90) 4 | CORE 40 (Lang., Phil. & Culture) – See checklist for options ¹ 3 |
| CORE 60 (American History) – See checklist for options ¹ 3 | CORE 90 (Comp. Area Opt.) – ENGL 1302 or 2311 3 |
| CORE 90 (Comp. Area Opt.) – IDS 1071 1 | MATH 2412 Pre-Calculus Math 4 |
| PHYS 1311/1311L Planetary Astronomy 3 | |
| Total: 17 | Total: 17 |
| Year 2: Fall | Year 2: Spring |
| CORE 50 (Creative Arts) – See checklist for options ¹ 3 | CORE 70 (Govt./Political Sci.) – POSC 2306 3 |
| CORE 70 (Govt./Political Sci.) – POSC 2305 3 | MATH 2414 Calculus II 4 |
| MATH 2413 Calculus I 4 | CHEM 2425/2425L Organic Chemistry II 4 |
| CHEM 2423/2423L Organic Chemistry I (Fall/Spring) 4 | PHYS 2426/2426L Calculus Physics II 4 |
| PHYS 2425/2425L Calculus Physics I (Fall/Spring) 4 | EPSY 3341 Educational Psychology 3 |
| Apply to EPP (Educator Preparation Program) | |
| Total: 18 | Total: 18 |
| Year 3: Fall | Year 3: Spring |
| CORE 80 (Soc. & Behav. Sci.) – See checklist for options ¹ 3 | Chemistry Elective (2) – See list below ³ for options 4-5 |
| CHEM 3511/3511L Analytical Chemistry (Fall only) 5 | PHYS 4321 Principles of Physical Science (Spring only) 3 |
| Chemistry Elective (1) – See list below ³ for options 4-5 | EDPD 4348 Data-Informed Instruction and Assessment 3 |
| GEOG/GESC 3313 Meteorology (Fall only) 3 | EDRD 4386 Secondary Reading in the Content Area 3 |
| EDPD 4330 Educational Methodology & Diverse Learners 3 | EPSY 4341 Educator Readiness and Performance 3 |
| Total: 18 | Total: 16-17 |
| Year 4: Fall | Year 4: Spring |
| Chemistry Elective (3) – See list below ³ for options 4-5 | EDPD 4398 Clinical Teaching – All Certificate Areas 3 |
| PHYS 3310 Modern Physics I (Fall/Spring) 3 | EDSE 4341 Clinical Teaching – Secondary 3 |
| PHYS 3330 Mechanics I (Fall only) 3 | |
| EDPD 4340 Classroom Management 3 | |
| EPSY 3350 Children with Special Needs 3 | |
| Electives – As needed to meet the 120 hours requirement TBD | |
| Total: 16+ | Total: 6 |

¹ **CORE:** Physical Science (6-12) Certification (Chemistry) 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 **CORE 90:** One of the six hours required for Core 90 may be satisfied by IDS 1071 (if taken) or the fourth hour from MATH 2412 or 2413.

³ **CHEMISTRY ELECTIVES:** Choose three courses from CHEM 3421, 3422, 4323/4223L, 4324/4224L, 4411, 4431.

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| Identified Marketable Skills Procedure development – Chemical analysis – Data analysis | Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities Bell Helicopter – Pantex – Servitech |
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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.