WTAMU ADVISING SERVICES – 2025-2026 Curriculum Guide

Major: Chemistry Opt. I – Professional Chemistry, B.A. Major Code: 104

Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – CHEM 1412	3
CORE 20 (Mathematics) – MATH 1316 or 2412 (if MATH 1314 is completed)	3-4	CORE 90 (Component Area Option) – CHEM 1412L	1
CORE 30 (Life & Phys. Sci.) – CHEM 1411 Chemistry I	3	CORE 90 (Component Area Option) – ENGL 1302 or 2311	3
CORE 90 (Component Area Option) - CHEM 1411/1411L	1	MATH 2413 Calculus I	4
CORE 90 (Component Area Option) – IDS 1071	1		
CORE 70 – POSC 2306	3	CORE 60 – See checklist for options[1]	3
		CORE 40 – See checklist for options[1]	3
Total:	14-15	Total:	17
Year 2: Fall		**Year 2: Spring**	
MATH 2414 Calculus II	4	CHEM 2425/2425L Organic Chemistry II	4
CHEM 2423/2423L Organic Chemistry I	4	MATH 3340 Calculus III	3
CORE 70 – POSC 2305	3	CORE 60 – See checklist for options[1]	3
CORE 10 – (COMM) See checklist for options[1]	3	CORE 50 – See checklist for options[1]	3
Total:	14	Total:	13
Year 3: Fall		**Year 3: Spring**	
CHEM 3511/3511L Analytical Chemistry	5	CHEM 3422/3422L Physical Chemistry II	4
CHEM 3421/3421L Physical Chemistry I	4	Advanced CHEM elective	3
PHYS 2425/2425L Calculus Physics I	4	PHYS 2426/2426L Calculus Physics II	4
B.A. Requirement – See checklist for options	3	B.A. Requirement – See checklist for options	3
Total:	16	Total:	14
Year 4: Fall		**Year 4: Spring**	
CHEM 4323 Biochemistry I	3	CHEM 4411/4411L Instrumental Analysis	4
CHEM 4223 Biochemistry I Lab	2	CHEM 4370 Senior Investigations (must seek faculty consent) **or** MPS 4393 Math/Physical Science/ET Honors	3
CHEM 4431/4431L Inorganic Chemistry	4	B.A. Requirement – See checklist for options	3
CHEM 4397 Undergraduate Research	3	CORE 80 – See checklist for options[1]	3
B.A. Requirement – See checklist for options	3	CHEM 4103 Seminar in Chemistry	1
		CHEM 3201 Chemical Literature	2
Total:	15	Total:	16

[1] **CORE:** Professional 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.

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

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.