WTAMU ADVISING SERVICES – 2025-2026 Curriculum Guide

Major: Chemistry Opt. III – Biochemistry, 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 Chemistry II	3
CORE 20 (Mathematics) – MATH 1316 or 2412 (if MATH 1314 is completed & 2412 is recommended)	3-4	CORE 90 (Component Area Option) – CHEM 1412L	1
BIOL 1406/1406L or 1411/1411L	4	MATH 2413 Calculus I	4
CORE 30 (Life & Phys. Sci.) – CHEM 1411	3	CORE 90 (Component Area Option) – ENGL 1302 or 2311	3
CORE 90 (Component Area Option) – CHEM 1411L	1	BIOL 1407/1407L or 1413/1413L	4
CORE 90 (Component Area Option) – IDS 1071	1	CORE 50 – See checklist for options[2]	3
Total:	15-16	Total:	18
Year 2: Fall		**Year 2: Spring**	
CHEM 2423/2423L Organic Chemistry I	4	CHEM 2425/2425L Organic Chemistry II	4
BIOL 2572/2572L Microbiology	5	BIOL 3301 Genetics	3
CORE 70 – POSC 2305	3	Advanced Elective(1) – See checklist for options	4
CORE 10 – (COMM) See checklist for options[2]	3	CORE 70 – POSC 2306	3
CORE 40 – See checklist for options[2]		CORE 60 – See checklist for options[2]	3
Total:	15	Total:	17
Year 3: Fall		**Year 3: Spring**	
CHEM 3511/3511L Analytical Chemistry	5	Advanced BIOL Elective (see [3] below)	4
CHEM 3402/3402L Cell Biology	4	PHYS 1402/1402L General Physics II **or** PHYS 2426/2426L Calculus Physics II	4
PHYS 1401/1401L General Physics I **or** PHYS 2425/2425L Calculus Physics I	4	Advanced Elective(3) – See checklist for options	3
Advanced Elective(2) – See checklist for options	4	B.A. Requirement – See checklist for options	3
		CORE 60 – See checklist for options[2]	3
Total:	17	Total:	17
Year 4: Fall		**Year 4: Spring**	
CHEM 4323 Biochemistry I	3	CHEM 4324 Biochemistry II	3
CHEM 4223L Biochemistry I Lab	2	CHEM 4224L Biochemistry II Lab	2
CORE 80 – See checklist for options[2]	3	CHEM 4370 Senior Investigations (must seek faculty consent) **or** MPS 4393 Math/Physical Science/ET Honors	3
B.A. Requirement – See checklist for options	3	CHEM 4103 Seminar in Chemistry	1
B.A. Requirement – See checklist for options	3	CHEM 3201 Chemical Literature	2
		B.A. Requirement – See checklist for options	3
Total:	14	Total:	14

[1] **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.

[2] **CORE:** Biochemistry 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.

[3] **Advanced BIOL Elective:** BIOL 3440 or 4375 is recommended. Taking **both** BIOL 2401 and 2402 may also be used to satisfy this requirement.

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.

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.