



### Required Coursework for Admission

Course Name	Hrs.	TCCNS	TAMU
Biology I	4	BIOL 1406 (1306/1106)	BIOL 111
Biology II	4	BIOL 1407 (1307/1107)	BIOL 112
Chemistry I	4	CHEM 1411 (1311/1111)	CHEM 119
Chemistry II	4	CHEM 1412 (1312/1112)	CHEM 120
Engineering Math I	4	MATH 2413	MATH 151
Engineering Math II	4	MATH 2414	MATH 152

- Courses listed should be completed with a grade of C or better.
- Students may have to complete Trigonometry and Pre-Calculus (MATH 2412) at their institution before taking MATH 2413.
- Trigonometry and Pre-Calculus are transferable courses but **will not** satisfy the Mathematics requirements in this degree plan.
- Students may have to complete College Algebra (MATH 1314) at their institution before taking MATH 2413 or 2414.
- College Algebra is a transferable course but **will not** satisfy the Mathematics requirements in this degree plan.
- AP credit for required courses is acceptable.

The recommendations below represent what a typical TAMU student's schedule looks like during the first four semesters. If working to complete an associate degree before transferring, please align your degree plan to satisfy TAMU degree requirements.

You may not have to complete the coursework in the sequence below, as certain courses may not be offered at your institution, but this major requires or recommends specific coursework to be completed.

### First Year

#### FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
BIOL 1406 (1306/1106)	BIOL 111	Biology I	4
CHEM 1411 (1311/1111)	CHEM 119	Chemistry I	4
MATH 2413	MATH 151	Engineering Math I	4
ENGL 1302	ENGL 104	Composition & Rhetoric	3
<b>Total</b>			<b>15</b>

#### SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
BIOL 1407 (1307/1107)	BIOL 112	Biology II	4
CHEM 1412 (1312/1112)	CHEM 120	Chemistry II	4
MATH 2414	MATH 152	Engineering Math II	4
ENGL 2311	ENGL 210	Technical Business Writing	3
<b>Total</b>			<b>15</b>

- ENGL 1301 is a transferable course but **will not** satisfy the Communication requirements in this degree plan. However, this is a pre-requisite to ENGL 1302.

### Second Year

#### FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
CHEM 2323/2423	CHEM 227/237	Organic Chemistry I	4
PHYS 2425	PHYS 206/226	Mechanics	4
	<a href="http://core.tamu.edu">core.tamu.edu</a>	American History	3
GOVT 2305	POLS 206	American National Government	3
<b>Total</b>			<b>14</b>

#### SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
CHEM 2325/2425	CHEM 228/238	Organic Chemistry II	4
PHYS 2426	PHYS 207/227	Electricity & Optics	4
	<a href="http://core.tamu.edu">core.tamu.edu</a>	American History	3
GOVT 2306	POLS 207	State & Local Government	3
<b>Total</b>			<b>14</b>

- BIOL 2401, 2402, 2420 and 2421 will not be acceptable.
- Consider taking courses that fulfill the 6 hours of [International and Cultural Diversity requirement](#) when completing the Social and Behavioral Sciences, free electives and Creative Arts requirements.



**Biochemistry**  
**College of Agriculture & Life Sciences**  
**Khara Spears | [Khara.Spears@ag.tamu.edu](mailto:Khara.Spears@ag.tamu.edu)**  
**[Bcbp.tamu.edu](http://Bcbp.tamu.edu)**

**2023-2024 Transfer Course Sheet**  
**Minimum GPA: 3.00**  
**Minimum Transferable Hours: 24**  
**Maximum Transferable Hours: 80**  
**Second-Choice Major Eligible: YES**

#### Coursework Timeline

- Competitive applicants will have the required coursework completed by the application deadline.
- Summer coursework **will not** be considered for summer/fall applicants.
- Fall coursework **will not** be considered for spring applicants.
- Applicants to the spring term should have the required coursework completed by the end of Summer II semester before applying.

#### Additional Transfer Requirements

- The Department of Biochemistry & Biophysics is looking for students who are interested in pursuing our degree as a focus. Students should indicate our department as the primary major choice or the secondary major choice they are interested in if they wish to be admitted. The essay and supporting materials should reflect that the student is interested in pursuing our degree.

#### Additional Information

- Applicants should be serious about earning a degree in Biochemistry.
- Transfer applicants are instructed **NOT** to accept transfer admission to any major with the expectation of later applying for an on-campus change of major.
- Please be sure to address why you would like to be a biochemistry major as well as any D's, Q's, F's, NG's or W's appearing in your transcript when writing your essay.
- Highly recommend meeting with an academic advisor prior to submitting the application.

#### Career & Educational Opportunities

This is the branch of science concerned with the chemical and physicochemical processes that occur within living organisms. Students in this major study life from the molecular level to the most complex organisms, and learn how to improve health, fight disease, and work toward scientific breakthroughs in all areas of the life sciences. The undergraduate biochemistry curriculum is designed to provide a solid background in chemistry and the physical sciences, as well as in the biological sciences.

Consequently, biochemistry is an especially versatile major giving undergraduates many options when they complete their BS degree. A biochemistry major provides a strong background for entering graduate school in a variety of fields, and biochemistry majors often go on to graduate school or to professional schools such as medicine, veterinary medicine or dentistry. Biochemistry majors excel in biomedical professional schools because of their strong background in the basic sciences. In addition, a wide variety of job opportunities is open to biochemistry majors with a BS degree. Many find rewarding careers working in laboratories as research scientists, forensic scientists and technicians in clinical, governmental and university laboratories. Biochemists are also employed by diverse companies in the chemical, pharmaceutical, agricultural, food and scientific equipment industries. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

#### Transfer Course Sheet Notes

1. Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#) unless specified above.
2. This Transfer Course Sheet was supported in a partnership between the Office of Admissions and the College of Agriculture & Life Sciences at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.