



Biology, Microbiology, Molecular & Cell  
 Biology, Zoology  
 College of Science  
 Christine Farris | 979-845-3116  
[bio.tamu.edu](http://bio.tamu.edu)

2021-2022 Transfer Course Sheet  
 Minimum GPA | 3.0  
 Minimum Transferable Hours | 24  
 Maximum Transferable Hours | 90  
 Second-Choice Major Eligible | YES

### Required Coursework for Admission

Course Name	Hrs.	TCCNS	TAMU
Engineering Math I**	4	MATH 2413	MATH 151
Engineering Math II** or Elementary Statistical Inference**	4 or 3	MATH 2414 or MATH 1342 or MATH 1442	MATH 152 or STAT 201
Chemistry I*	4	CHEM 1411 (1311/1111)	CHEM 119
Chemistry II*	4	CHEM 1412 (1312/1112)	CHEM 120
Biology I*	4	BIOL 1406 (1306/1106)	BIOL 111
Biology II*	4	BIOL 1407 (1307/1107)	BIOL 112

- \*Courses listed should be completed with a grade of B or better with a total GPA of 3.0 or better in these courses.
- \*\*Courses listed should be completed with a grade of C or better with a total GPA of 2.0 or better in these courses.
- Students who take more applicable courses in the required areas (BIOL, CHEM, and MATH) will have those courses also considered for admission. For example, if a student completes Organic Chemistry prior to applying, those grades will also be considered in the Chemistry grade point average.
- 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.
- College Algebra is a transferable course but **will not** satisfy the Mathematics requirements in this degree plan.

**The recommendations below represent what a typical TAMU student's schedule looks like during the first four semesters. If working to complete an Associate's 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 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
	<a href="http://core.tamu.edu">core.tamu.edu</a>	Communication	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 or MATH 1342 or 1442	MATH 152 or STAT 201	Engineering Math II or Elementary Statistical Inference	4 or 3
	<a href="http://core.tamu.edu">core.tamu.edu</a>	Communication	3
<b>Total</b>			<b>15</b>

#### Second Year

##### FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
CHEM 2423 (2323/2123)	CHEM 227/237	Organic Chemistry I	4
PHYS 1401 (1301/1101)	PHYS 201	College Physics I	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 2425 (2325/2125)	CHEM 228/238	Organic Chemistry II	4
PHYS 1402 (1302/1102)	PHYS 202	College Physics II	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 in any of the BIOL degree plans.
- Consider taking courses that fulfill the 6 hours of International and Cultural Diversity and/or Cultural Discourse requirement when completing the Social & Behavioral Sciences, Creative Arts and Language Philosophy & Culture requirements.



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Maximum Transferable Hours | 90  
Second-Choice Major Eligible | YES

### Coursework Timeline

- Competitive applicants will have the Required coursework completed by the application deadline.
- Applicants to the summer/fall term **may be** asked to submit spring final grades, this is not a guarantee.
- 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 Biology is looking for students who are interested in pursuing our degree as a focus. Students should indicate our department as the primary major 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.
- Meeting minimum requirements **does not** guarantee admission. The entire record is reviewed for consistency in coursework and grades.
- Applicants should be serious about earning a degree in Biology.
- 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.
- Do not apply to more than one major in the Biology Department. The requirements are the same for all Biology Department majors.

### Career & Educational Opportunities

Biology is the study living organisms. Biologists usually specialize in a particular group of plants or animals and may study the origin, development, structure, life cycle, or physiology of one species or the ecological relationships between several species. The Department of Biology offers two undergraduate degree programs in biology, a Bachelor of Arts (BA) and a Bachelor of Science (BS). The BA degree in Biology, through the availability of a large number of electives, gives students maximum flexibility in earning a biology degree. The BA program is recommended for students with broad educational objectives or who intend to pursue further education in areas such as allied health professions, professional schools, or teaching certification. The BS degree in Biology is designed for students to obtain a comprehensive, solid foundation in the major branches of Biology. This degree plan is recommended for students preparing for graduate programs in biological sciences or any professional programs in health and medical sciences such as medical, dental or veterinary schools. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

Microbiologists are biologists who specialize in microorganisms, including the diverse fields of microbial physiology and biochemistry, microbial genetics, and developing areas such as the molecular biology of microorganisms. The curriculum provides excellent training toward a career in any one of many areas of industrial microbiology and public health services. It is also an ideal preparation for advanced study or professional school in medicine, dentistry and other related fields, especially medical technology and biotechnology. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

Molecular and Cell Biology examines the molecular structures and processes of cellular life as well as the roles of these structures and processes in the function, reproduction, and development of living organisms. Molecular and cell biologists typically have an interest in higher organisms, namely eukaryotic plants and animals. This major provides an excellent foundation for a career in biotechnology, genetic engineering, MD/PhD programs or basic biological research. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

Zoologists study animal species as varied as protozoa (one-celled animals), elephants, and rare birds. Zoologists study the origin and development of animal species, the habits and behaviors of animals, and the interactions between animals and their environment. They also do research to learn how animal diseases develop and how traits are passed from each one generation to the next. This degree program is designed to expose students to all aspects of the study of animals. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

### Transfer Course Sheet Notes

1. Admission preference is given to applicants with the highest GPA and the most appropriate courses completed.
2. Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#) unless specified above.
3. This Transfer Course Sheet was supported in a partnership between the Office of Admissions and the College of Science at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.