



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 B 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.

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
Total			15

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
Total			15

- 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 1401 (1301/1101)	PHYS 201	College Physics I	4
	core.tamu.edu	American History	3
	STAT 211*	Principles of Statistics II	3
Total			14

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
CHEM 2325/2425	CHEM 228/238	Organic Chemistry II	4
PHYS 1402 (1302/1102)	PHYS 202	College Physics II	4
	core.tamu.edu	American History	3
	STAT 211*	Principles of Statistics II	3
Total			14

- 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 requirement](#) when completing the Social and Behavioral Sciences, free electives and Creative Arts requirements.
- *STAT 211/212 are examples of coursework that may not be offered at all institutions. However, you will still be required to complete these courses as part of your Genetics degree plan.



Genetics
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2021-2022 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.
- 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 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.
- Meeting minimum requirements does not guarantee admission. The entire record is reviewed for consistency in coursework and grades and admittance is a committee-based decision.

Additional Information

- Applicants should be serious about earning a degree in Genetics.
- 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 Genetics major as well as any D's, Q's, F's, NG's, or W's appearing in your transcript when writing your essay
- Please contact department regarding second-choice major consideration before applying.
- Contacting an academic advisor in this department is strongly recommended prior to application.

Career & Educational Opportunities

Study the building blocks of heredity and their influence, from molecules to populations, and prepare to have a profound impact on human affairs in this rapidly developing field. Genetics is one of the most exciting, rapidly expanding areas in the life sciences. More than an independent discipline, it has become the basis for understanding many aspects of medical and agricultural systems, animal and plant diseases, and even animal behavior. Developments in molecular genetics have provided biotechnologies that will dramatically affect our lives from the improved diagnosis of human disease, to the production of viral-resistant crops, to environmental cleanup. The undergraduate curriculum in genetics allows the study of several different aspects of genetics, including population genetics, human genetics and genetic engineering. The genetics major is designed to develop the knowledge and skills necessary for advanced studies in all disciplines related to life sciences from medicine/veterinary medicine to genetic engineering. This basic science curriculum also has enough flexibility to allow a student to prepare for such diverse careers as forensics, medicine, business or law. For more information please visit 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 Agriculture & Life Sciences at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.