



BS-ECCB Ecoinformatics Track  
 College of Agriculture & Life Sciences  
 Advising Center 7  
 Ann Pool, Sr. Academic Advisor |  
[annpool@tamu.edu](mailto:annpool@tamu.edu)  
[eccb.tamu.edu](http://eccb.tamu.edu)

2021-2022 Transfer Course Sheet  
 Minimum GPA | 2.5  
 Minimum Transferable Hours | 24  
 Second-Choice Major Eligible | YES

### Required Coursework for Admission

Course Name	Hrs.	TCCNS	TAMU
Mathematics for Business & Social Sciences	3	MATH 1324	MATH 140
Business Math II	3	MATH 1325	MATH 142
Introductory Biology I*	4	BIOL 1406	BIOL 111
Introductory Biology II*	4	BIOL 1407	BIOL 112
Chemistry I	4	CHEM 1411	CHEM 119

- **\*Transfer applicants must earn a "C" or better in BIOL 111 and BIOL 112**
- Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#)
- Students may have to complete College Algebra (MATH 1314) at their institution before taking MATH 1324 or 1325.
- 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*	BIOL 111	Introductory Biology I	4
	ESSM 201*	Exploring Ecosystem Science	1
MATH 1324	MATH 140	Mathematics for Business & Social Sciences	3
	RENK 205*	Fundamentals of Ecology	3
		General Elective	3
<b>Total</b>			<b>14</b>

#### SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
BIOL 1407*	BIOL 112	Introductory Biology II	4
MATH 1325	MATH 142	Business Calculus	3
HIST 1301	HIST 105	History of United States	3
	<a href="http://core.tamu.edu">core.tamu.edu</a>	Social & Behavioral Science	3
	<a href="http://core.tamu.edu">core.tamu.edu</a>	Language, Philosophy, & Culture	3
<b>Total</b>			<b>16</b>

### Second Year

#### FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
CHEM 1411 (1311/1111)	CHEM 119	Chemistry I	4
	WFSC 302	Natural History of the Vertebrates	3
	<a href="http://core.tamu.edu">core.tamu.edu</a>	Creative Arts	3
HIST 1302	HIST 106	History of United States	3
		Ecology Practice	3
<b>Total</b>			<b>16</b>

#### SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	CHEM 222	Elements of Organic and Biological Chemistry	3
	RENK 215*	Fundamentals of Ecology Lab	1
	STAT 302	Statistical Methods	3
GOVT 2305	POLS 206	National Government	3
	ESSM 310	Forest Tree Improvement and Regeneration	3
	WFSC 304	Wildlife and Fisheries Conservation	3
<b>Total</b>			<b>16</b>

- Consider taking courses that fulfill the 3 hours of [International and Cultural Diversity requirement](#) and 3 hours of [Cultural Discourse course requirement](#) when completing the Social and Behavioral Sciences, free electives and Creative Arts requirements.
- Must make a grade of C or better in [BIOL 111](#), [BIOL 112](#), and all ECCB major core coursework ([ESSM 201](#), [ESSM 304](#), [ESSM 311](#), [ESSM 485](#), [RENK 205](#), [WFSC 302](#), [WFSC 304](#), [WFSC 403](#), and [WFSC 433](#).)



**BS-ECCB Ecoinformatics Track**  
College of Agriculture & Life Sciences  
Advising Center 7  
Ann Pool, Sr. Academic Advisor |  
[annpool@tamu.edu](mailto:annpool@tamu.edu)  
[eccb.tamu.edu](http://eccb.tamu.edu)

**2021-2022 Transfer Course Sheet**  
Minimum GPA | 2.5  
Minimum Transferable Hours | 24  
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 Information

- Applicants are encouraged to contact an academic advisor if they have any questions.
- For information regarding Transfer Course Equivalency, please refer to the following website: <https://compassx-ssb.tamu.edu/HCA/ssb/transferCourseEquivalency/#/>
- Must make a grade of C or better in BIOL 111, BIOL 112, and all ECCB major core coursework (ESSM 201, ESSM 304, ESSM 311, ESSM 485, RENR 205, WFSC 302, WFSC 304, WFSC 403, and WFSC 433.)

#### Career & Educational Opportunities

Ecoinformatics is an emerging field that prepares graduates to become experts in integrating digital and information technologies, such as GPS (geographic position system), satellite and UAV (unmanned aerial vehicle) imagery, and advanced field sensors with ecological data analysis in complex ecosystems to detect, evaluate, and predict ecological patterns, disturbances, and processes. The Ecoinformatics track provides students with training in theories and applications of ecological data analysis, natural resources and ecological modeling, and spatial information sciences that will prepare them for handling complex and ever-increasing interdisciplinary ecological data and understanding of contemporary environmental challenges. Students successfully completing this track will have the ability to use advanced technologies used to collect data from genomic to landscape levels and beyond. The diversity of courses will give students the ability to use analytical and computer-based methods to perform quantitative data analysis, spatial analysis, and ecological modeling. This track prepares students for careers with natural resource agencies, environmental consulting companies, or for pursuing graduate degrees that require knowledge and ability to transform data into ecological information useful for solving environmental problems and informing policy and decision making. 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 Agriculture & Life Sciences at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.