

**Cornell University**  
**College of Agriculture and Life Sciences**

**Alfred State College**

**For list of required courses for transfer by CALS major see  
[www.cals.cornell.edu](http://www.cals.cornell.edu)**

<b>Required Transfer Course</b>	<b>Course Equivalency</b>
<b>Art</b>	
Design	FNAT 2423 Three Dimensional Design
Drawing	FNAT 2433 Figure Drawing
<b>Biology*</b>	
Biology 1 with lab*	BIOL 1104 General Biology1
Biology 2 with lab*	BIOL 2204 General Biology 11
Anatomy & Physiology	BIOL 1401 Anatomy & Physiology
Microbiology	BIOL 4251 General Microbiology
<b>Chemistry</b>	
Chemistry 1 with lab	CHEM 1114 General Chemistry 1
Chemistry 2 with lab	CHEM 2124 General Chemistry 11
Organic Chemistry 1 with lab	CHEM 3514 Organic Chemistry 1
Organic Chemistry 2 with lab	CHEM 4524 Organic Chemistry 11
<b>Communication</b>	
Public Speaking	SPCH 1083 Effective Speaking
<b>Computer</b>	
Computer Programming	CISY 1113 Intro to Computer Programming and/or CISY 4023 Computer Programming in C and/or CISY 5123 Scientific Programming in C and C++
<b>Economics</b>	
Macro Economics	ECON 1013 Principles of Economics
Micro Economics	ECON 2023 Principles of Economics

**English**

English Composition COMP 1503 Freshman Composition  
or  
COMP 3703 Technical Writing 1

**Engineering Mechanics**

ENGR 3213 Analytical Mechanics 1  
&

ENGR 4213 Analytical Mechanics 11

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**Mathematics**

Calculus 1 MATH 1084 Calculus 1  
Calculus 2 MATH 2094 Calculus 11  
Calculus 3 MATH 6104 Calculus 111  
Linear Algebra  
Differential Equations MATH 1123 Differential Equations  
Statistics MATH 1123 Statistics 1

**Physics**

Physics 1 PHYS 1044 College Physics 1  
Physics 2 PHYS 2044 College Physics 11

**Psychology**

Psychology PSYC 1013 General Psychology

**Sociology**

Sociology SOCI 1163 General Sociology

\* Students pursuing Animal Science (PreVeterinary), Biological Engineering, Biological Sciences, Biology & Society, Entomology, Environmental Engineering, Food Science, Nutritional Science and Science of Earth Systems are required to take BIOL 1104 and 2204 with lab.

\*Students pursuing other programs may fulfill the Introduction Biology course requirement by taking one course from each category below.

**Biology 1 – focus on cell biology, physiology, genetics**

ANSC 1214 - Anatomy & Physiology of Large Animals  
VETS 2014 - Anatomy & Physiology of Small Animals  
BIOL 1304 - Botany  
BIOL 5254 – Principles of Microbiology  
BIOL 4534 – Genetics  
BIOL 1813 – Zoology

**Biology 2 - focus on ecology, diversity, evolution)**

BIOL 2803 - Environmental Science  
BIOL 2703 - Topics in Tropical Ecology

