

**FALL 2014**

Course	Cr	Title	✓
BIO 123	4	Foundations in Biology	
CHE 111	4	Chemical Principles	
MAT 141	3	Calculus I	
FYS ____	3	First Year Seminar	
SPS 120	0.5	College Life	

**FALL 2015**

Course	Cr	Title	✓
BIO 239	4	Animal Ecology, Evolution and Development	
ETL 235	3	Ethical Life	
CHE 205	4	Organic Chemistry I	
_____	3	Humanities LAC course	

**FALL 2016**

Course	Cr	Title	✓
BIO 350	2	Junior Colloquium	
BIO 335	4	Molecular Genetics I	
PHY 101	4	Introductory College Physics I	
_____	3	Art LAC course	
BIO__	1.5	Genetic Engineering minilab*	
_____	1-4	elective***	

**FALL 2017**

Course	Cr	Title	✓
BIO 356	3	Science, Ethics, and Society	
BIO 345	3	Advanced Recombinant DNA	
_____	3-4	Genetic Engineering elective**	
CHE 307	4	Biochemistry	
_____	1-4	elective***	

**SPRING 2015**

Course	Cr	Title	✓
BIO 124	4	Principles of Cell and Molecular Biology	
CHE 112	4	Chemical Equilibrium and Analysis	
MAT 142	3	Calculus II	
WRI 100	3	College Writing	
SPS 160	0.5	Exploring Your Future	

**SPRING 2016**

Course	Cr	Title	✓
BIO 231	4	Genetics	
CHE 206	4	Organic Chemistry II	
_____	3	Global Studies LAC course	
_____	3	Humanities LAC course	

**SPRING 2017**

Course	Cr	Title	✓
BIO 336	4	Molecular Genetics II	
_____	3-4	Genetic Engineering elective**	
PHY 102	4	Introductory College Physics II	
_____	3	Social Science LAC course	
_____	1-4	elective***	

**SPRING 2018**

Course	Cr	Title	✓
_____	3-4	Genetic Engineering elective **	
BIO__	1.5	Genetic Engineering minilab*	
_____	3	Social Science LAC course	
_____	3	Art LAC course	
_____	1-4	elective***	

\* Choose two courses for a total of 3 credits from: BIO 341, 343, 344, 347, or 349.

\*\*Choose 3 courses for a total of 11 credits from: BIO 227, 300, 313, 323, 327, 332, or 339; NEU 348; CHE 208, or 248. At least 2 must contain a lab.

\*\*\*Electives must be included to ensure that the overall total number of credits reaches the 120 credits needed to complete a degree.

## Liberal Arts Curriculum (LAC) for Genetic Engineering majors

<b>Natural Science:</b> One must be a lab-based course
1. BIO 123 2. BIO 124
<b>Arts:</b> 6 cr. total, one must be a 3 cr. course*
1. _____ 2. _____
<b>Mathematics &amp; Logic:</b> 6 cr total, one mathematics course
1. MAT 141 2. MAT 142
<b>Ethics:</b> 3 cr.
1. ETL 235
<b>Technology:</b>
1. BIO 231, 239, 350, and 356
<b>Oral Presentation:</b>
1. BIO 231, 239, 350, and 356

<b>Writing:</b> 6 cr.
1. WRI 100 2. BIO 356
<b>Humanities:</b> 6 cr. total from two disciplines*
1. _____ 2. _____
<b>Social Science:</b> 6 cr. total from two disciplines*
1. _____ 2. _____
<b>Global Studies:</b> 3 cr.
1. _____
<b>Information Literacy:</b>
1. BIO 231, 239, 350, and 356

\* The 4 disciplines used to fulfill the Humanities and Social Science requirements cannot be used to fulfill the Arts requirement.