



Undergraduate Degree Map for Completion in Four Years

College:	College of Science, Engineering & Technology <input type="button" value="v"/>
Department:	Biological Sciences <input type="button" value="v"/>
Name of Program:	BIOTECHNOLOGY <input type="button" value="v"/>
Degree Designation:	BS <input type="button" value="v"/>
Emphasis/Concentration:	<input type="text"/> <input type="button" value="v"/>
Option:	<input type="text"/>
Version:	1 <input type="button" value="v"/>
Version Explanation:	Student begins in an odd-numbered year
Type of Program:	Broad Major <input type="button" value="v"/>
Minor Required:	No <input type="button" value="v"/>
Specific Minor (if required):	<input type="text"/>

Program Description:

Biotechnology is the application of recent developments in technology to manipulate the genetic and biochemical characteristics of an organism so that the organism or its metabolites can be economically produced for our benefit. Careers include a wide variety of industrial applications, such as antibiotic and pharmaceutical; food; energy; agricultural pesticides; herbicides; fertilizers; growth chemicals and breeding programs; industrial chemicals, biocatalysts and diagnostics.

Admission Requirements:

32 earned semester credit hours including BIOL 105 and BIOL 106, with a grade of a "C" or better in both BIOL 105 and BIOL 106; and a minimum cumulative GPA of 2.0.

Advising:

You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.

Each student must meet with an advisor each semester. Following the meeting the student will be given an access code which allows the student to register for classes.

A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours
BIOL	105	General Biology I	4	Requires a C or better
MATH	121	Calculus I	4	
ENG	101	Composition	4	
		General Education Course	3	

Insert item

Term 1 Notes:

General Education categories 1A, 2, 3, and 4, will be filled by required courses.

TERM 2 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status
BIOL	106	General Biology II	4	Requires a C or better
---	---	Choose one course:	---	
MATH	122	Calculus II OR	4	
HLTH	475	Biostatistics OR	3	
STATS	154	Elementary Statistics	3	
		Writing Intensive General Education Course	4	
		General Education Course	3-4	

Insert item

Term 2 Notes:

You may apply to the major at the end of this term if 32 semester credit hours have been completed, BIOL 105 and 106 have been completed with a C or better, and the GPA is 2.0 or better.

TERM 3 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
BIOL	211	Genetics	4	
CHEM	201	General Chemistry I	5	
PHYS	211	Principles of Physics I	4	
		General Education Course	2	

Insert item

Term 3 Notes:

TERM 4 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 60 credit hours Advance to Junior status
BIOL	270	General Microbiology	4	
CHEM	202	General Chemistry	5	
PHYS	212	Principles of Physics II	4	
		General Education Course	2	

Insert item

Term 4 Notes:

TERM 5 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Apply for Graduation
BIOL	320	Cell Biology	4	
CHEM	322	Organic Chemistry I	4	
CHEM	323	Supplemental Organic Chemistry	1	
		Writing Intensive Course	3	
		General Education Course	3	

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Term 5 Notes:

Two writing intensive courses (in addition to ENG 101) are required for graduation.

TERM 6 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status
BIOL	452	Biological Instruments	3	
BIOL	479	Molecular Biology	4	
CHEM	360	Principles of Biochemistry	4	
		General Education Course	4	

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Term 6 Notes:

Apply for graduation one full year before your graduation date. 40 credits of upper division courses are required for graduation, (including biology courses).

TERM 7 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate ≥ 67%
BIOL	453	Biological Engineering Analysis I	4	
BIOL	474	Immunology	4	
---	---	Choose one course:	---	
BIOL	456	Biotechnology Project/Laboratory I OR	3	
BIOL	497	Internship I OR	3	
BIOL	499	Individual Study	3	
		Gold or Purple Course	4	

Insert item

Term 7 Notes:

Be sure all general education, diversity, and writing intensive requirements have been met.

TERM 8 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate ≥ 67%
BIOL	454	Biological Engineering Analysis II	4	
BIOL	476	Microbial Physiology and Genetics	5	
---	---	Choose one course:	---	
BIOL	457	Biotechnology Project/Laboratory II OR	3	
BIOL	497	Internship I OR	3	
BIOL	499	Individual Study	3	
		Purple Course	3	

Insert item

Term 8 Notes:

PROGRAM NOTES

DEGREE MAP CHECKLIST: GRADUATION REQUIREMENTS

<input checked="" type="checkbox"/>	1. Minimum of 15 credits per semester
<input checked="" type="checkbox"/>	2. General Education = 44 credits
<input checked="" type="checkbox"/>	3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines
<input checked="" type="checkbox"/>	4. Writing Intensive = 2 courses (6 credits minimum)
<input checked="" type="checkbox"/>	5. Major = <input type="text" value="89"/> credits
<input checked="" type="checkbox"/>	6. Upper-Division Requirements = 40 credits minimum

<input type="checkbox"/>	7. Professional Education (if required) = 30 credits
<input type="checkbox"/>	8. Language Requirements (if BA) = 8 credits minimum
<input type="checkbox"/>	9. Minor = <input type="text"/> credits
<input checked="" type="checkbox"/>	10. Total credits required for degree <input type="text"/>

DEGREE MAP COMPLETE

<input checked="" type="checkbox"/>	<p>Map is complete and ready for review</p> <ol style="list-style-type: none"> 1. Faculty please send an email to your Department Chair when map is ready to review. 2. Department Chair please send an email to your Dean when map is ready to review. 3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review.
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DEAN APPROVAL

<input checked="" type="checkbox"/>	Map reviewed and approved by Dean
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Save and Close