



# ASSOCIATE OF APPLIED SCIENCE BIOTECHNOLOGY

**1718 Catalog**  
Effective Summer 2017

**1150**

*The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-06.*

*Arts and Sciences Division*

*Biology Department*

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO241	General Genetics (lab) ▲-	4	BIO141	
BIO242	Cell & Molecular Biology (lab) ▲+	4	BIO141	
BST120	Introduction to Biotechnology ▲-	1		
BST121	Basic Biotechnology Methods (lab)	1	Pre-Co-BST120	
BST122	Advanced Biotechnology Methods <sup>^</sup> (lab) ▲+	3	BST121 <b>and</b> (MTH093 and MTH094) <b>or</b> Proficiency	
BST221	Cell and Tissue Culture (lab) (1 <sup>st</sup> 8-weeks) ▲-	2	BST122	
BST225	Biotechnology Instrumentation (lab) (2 <sup>nd</sup> 8-weeks) ▲-	2	BST122	
BST240	Bioinformatics (lab) ▲+	3		
BST250	Bioprocess and Manufacturing (lab) ▲+	3	BST122	
ENV125	Intro to HAZ Mat and Waste Management	1		
ENV221	OSHA 40 hour HAZWOPER	2		
ITD122	Computer Applications for Professionals	3	ITD100 <b>or</b> Proficiency	
SCI273	Special Topics in Science	3	<i>Sophomore in program</i>	
<b>Total</b>		<b>32</b>		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar <sup>^^</sup>	1	<i>Take first semester</i>	
ENG124	College Composition <sup>^</sup>	3	ENG011 <b>or</b> Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH125 <b>or</b> MTH124	College Algebra <sup>^</sup> <b>or</b> Statistics	4 <b>or</b> 3	<i>Check for prerequisites</i>	
BIO141	General Biology I (lab)	4		
BIO221	Principals of Microbiology	4	BIO141 <b>or</b> BIO122 <b>or</b> BIO123	
CHM141	General Chemistry I (lab) ▲	5	CHM101 <b>or</b> Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
PHL122	Ethics	3		
<b>Total</b>		<b>31-32</b>		
<b>TOTAL CREDIT HOURS</b>		<b>63-64</b>		

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, or those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

▲-Fall only courses. Please see your academic advisor for availability.

▲+Spring only courses. Please see your academic advisor for availability.

## FULL-TIME STUDENT ADVISING NOTES

### Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

### Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD122	Computer Applications for Professionals	3	ITD100 <b>or</b> Proficiency
ENG124	College Composition^	3	ENG011 <b>or</b> Proficiency
ENV125	Intro to HAZ Mat and Waste Management	1	
BIO141	General Biology I (lab)	4	
BST120	Introduction to Biotechnology ▲ -	1	
BST121	Basic Biotechnology Methods (lab)	1	Pre-Co-BST120
		<b>14</b>	
<u>Second Semester</u>			
MTH125	College Algebra^	4	
<b>or</b>	<b>or</b>	<b>or</b>	<i>Check for prerequisites</i>
MTH124	Statistics	3	
ENG221	Technical Report Writing	3	ENG124
ENV221	OSHA 40 hour HAZWOPER	2	
BIO221	Principles of Microbiology	4	BIO141 <b>or</b> BIO122 <b>or</b> BIO123
BST122	Advanced Biotechnology Methods^ (lab) ▲ +	3	BST121 <b>and</b> (MTH093 and MTH094) <b>or</b> Proficiency
		<b>15-16</b>	
<u>Summer</u>			
PHL122	Ethics	3	PHL122
SCI273	Special Topics in Science	3	<i>Sophomore in program</i>
		<b>6</b>	
<u>Third Semester</u>			
BIO241	General Genetics (lab) ▲ -	4	BIO141
CHM141	General Chemistry I (lab) ▲	5	CHM101 <b>or</b> Proficiency
BST221	Cell & Tissue Culture (lab) (1 <sup>st</sup> 8-weeks) ▲ -	2	BST122
BST225	Biotechnology Instrumentation (lab) (2 <sup>nd</sup> 8-weeks) ▲ -	2	BST122
		<b>13</b>	
<u>Fourth Semester</u>			
BST240	Bioinformatics ▲ +	3	
BST250	Bioprocesses and Manufacturing (lab) ▲ +	3	BST122
BIO242	Cell and Molecular Biology (lab) ▲ +	4	BIO141
CHM142	General Chemistry II (lab)	5	CHM141
		<b>15</b>	
<b>TOTAL CREDITS</b>		<b>63-64</b>	

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▲ + Spring only courses. Please see your academic advisor for availability.