

# Alamance Community College

## 2021 Calendar Year

### Biotechnology • Semester by Semester

#### First Year

##### Fall 1st Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
BIO-111	General Biology I	6	4
BTC-181	Basic Laboratory Techniques	6	4
<i>Choose one of the following:</i>			
CHM-151	General Chemistry I	6	4
<b>The following two courses are dependent and must be taken together:</b>			
CHM-131	Introduction to Chemistry	3	3
CHM-131A	Introduction to Chemistry Lab	3	1
	Semester Total	18	12

#### First Year

##### Spring 2nd Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
BIO-112	General Biology II	6	4
BIO-275	Microbiology	6	4
BTC-281	Bioprocess Techniques	8	4
CHM-132	Organic and Biochemistry	6	4
	Semester Total	26	16

#### First Year

##### Summer 3rd Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
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COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
CIS-110	Introduction to Computers	4	3
	Semester Total	4	3

## Second Year

### Fall 4th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
BIO-250	Genetics	6	4
CHM-263	Analytical Chemistry	7	5
<i>Choose one of the of the following:</i>			
ENG-114	Professional Research & Reporting	3	3
COM-110	Introduction to Communication	3	3
COM-231	Public Speaking	3	3
	Semester Total	16	12

## Second Year

### Spring 5th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
<i>Choose one of the following:</i>			
<b>The following two courses are dependent and must be taken together:</b>			
BIO-140	Environmental Biology	3	3
BIO-140A	Environmental Biology Lab	3	1
BIO-168	Anatomy and Physiology I	6	4
	Industrial Microbiology (BTC-275) to be added Spring 2017	6	4
BTC-287	Advanced Molecular Techniques	8	4
CHM-152	General Chemistry II	6	4

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
	Higher CIS/CSC (As per bioinformatics certificate)	3	3
BTC-286	Immunological Techniques	6	4
	Humanities/Fine Arts Elective	3	3
	Social/Behavioral Sciences Elective	-	3
	Semester Total	9-17	10-14

## Second Year

### Summer 6th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
<i>Choose one from the following:</i>			
WBL-112	Work-Based Learning I	20	2
	Semester Total	0-20	0-2
	TOTAL CREDITS		53-59