

# Fayetteville State University

## Biology, Biotechnology and Molecular Biology Concentration, BS

### Four-Year Degree Plan

Catalog: 2018-2019

Type: Freshman

Last Update: 10/19/2018

This Plan illustrates how students can meet degree course requirements in four years. Some courses listed below may be taken in an alternate order. Consider prerequisites, prior credit, course availability, and student needs in developing the individual plan. Courses fulfilling requirements are listed on the reverse. For information about prerequisites and other program requirements, consult the appropriate Catalog Program of Study and an advisor. Note: NC community college transfers should consult one of the transfer plans.

Year/Term	Course/Requirement	Cr	Pre	Req	Note/Equivalent
<b>Year 1 Fall</b>		<b>15</b>			
	UNIV 101 - Freshman Seminar I	1	N	1.1	
	Core Transitional Life	2	N	1.2	
	ENGL 110 - English Composition I	3	N	2.1	
	MATH 129 Or higher MATH	3	Y	3.2	
	Core Social Sci	3	N	5.2	
	Core Humn Creative Arts	3	C	6	

<b>Year 2 Fall</b>		<b>17</b>			
	BIOL 160 - Principles of Biology II	3	Y	5.1	
	BIOL 160L - Principles of Biology II Lab	1	Y	5.1	
	Global Literacy - Foreign Language	3	C	7	
	Core Ethics Civic Engage	3	C	8	
	BIOL 225 - Scientific Communication	3	N	9.1	
	CHEM 141 - General Chemistry I Lecture	3	Y	9.1	
	CHEM 141L - General Chemistry I Lab	1	Y	9.1	

<b>Year 3 Fall</b>		<b>13</b>			
	BIOL 320 - Biology Seminar	1	N	9.1	
	BOTN 210 - General Botany	3	Y	9.1	
	BOTN 210L - General Botany Lab	1	Y	9.1	
	BTCH 220 - Biotechniques I	4	Y	9.1	
	PHYS 115 - General Physics I	3	Y	9.1	
	PHYS 125L - College Physics I Lab	1	Y	9.1	

<b>Year 4 Fall</b>		<b>15</b>			
	BIOL 400 - Biostatistics	3	Y	9.1	
	BTCH 360 - Molecular Genetics	3	Y	9.1	Or BIOL 325
	BTCH 360L - Molecular Genetics Lab	1	Y	9.1	Or BIOL 325L
	Concentration Elective	4	C	9.12	
	Concentration Elective	4	C	9.12	

**Degree Total: 120**

Year/Term	Course/Requirement	Cr	Pre	Req	Note/Equivalent
<b>Year 1 Spring</b>		<b>17</b>			
	UNIV 102 - Freshman Seminar II	1	N	1.1	
	BADM 215 Or SPEE 200	3	Y	2.2	
	PHIL 110 Or PHIL 220	3	N	3.1	
	ENGL 120 - English Composition II	3	Y	4	
	BIOL 150 - Principles of Biology	3	Y	5.1	
	BIOL 150L - Principles of Biology Lab	1	Y	5.1	
	MATH 130 or higher MATH	3	C	9.2	

<b>Year 2 Spring</b>		<b>15</b>			
	BIOL 200 - Cellular Biology	3	Y	9.1	
	BIOL 200L - Cellular Biology Lab	1	Y	9.1	
	BTCH 210 - Introduction to Biotechnology	3	N	9.1	
	CHEM 161 - General Chemistry II Lecture	3	Y	9.1	
	CHEM 161L - General Chemistry II Lab	1	Y	9.1	
	ZOOL 200 - General Zoology	3	Y	9.1	
	ZOOL 200L - General Zoology Lab	1	Y	9.1	

<b>Year 3 Spring</b>		<b>16</b>			
	BIOL 330 - Microbiology & Immunology	3	Y	9.1	
	BIOL 330L - Microbiology & Immunology Lab	1	Y	9.1	
	BTCH 230 - Biotechniques II	4	Y	9.1	
	PHYS 116 - General Physics II	3	Y	9.1	
	PHYS 126L - College Physics Lab II	1	Y	9.1	
	ZOOL 310 - Principles of Genetics	3	Y	9.1	
	ZOOL 310L - Principles of Genetics Lab	1	Y	9.1	

<b>Year 4 Spring</b>		<b>12</b>			
	BIOL 499 - Senior Capstone Experience	4	Y	9.1	
	Concentration Elective	4	C	9.12	
	Concentration Elective	4	C	9.12	

**Requirements/Notes**

- Pre.** Prerequisite: Y (Yes) - Course/Requirement has prerequisite(s). N (No) - Course/Requirement has no prerequisite. C (Check) - Some courses satisfying requirement have prerequisites and/or courses have non-prerequisite restrictions. Check Catalog for details.
- \* Recommended. For transfer courses, following recommendations will reduce or eliminate the need to take additional courses at FSU. For FSU courses, following recommendations will optimize the student's educational experience. If in doubt, consult an advisor.
- 1.1.** **Core Transitional UNIV.** (UNIV 101 And UNIV 102) Or UNIV 110 Or UNIV 111 . UNIV 101-UNIV 102 required for all first time students; UNIV 110 required for transfer students with fewer than 30 transfer credits. Students do not earn credit if requirement is waived. UNIV 111 may be required based on academic performance.
  - 1.2.** **Core Transitional Life.** ENTR 100 Or FINC 100 Or GEOG 110 Or HEED 112 Or HEED 113 Or PEDU 101 Or PEDU 107 Or PEDU 112 Or PEDU 120 Or PEDU 122 Or PEDU 130 Or PEDU 132 Or PEDU 140 .
  - 2.1.** **Core Written Comm.** ENGL 110 .
  - 2.2.** **Core Oral Comm.** BADM 215 Or SPEE 200 .
  - 3.1.** **Core Critical Thinking.** PHIL 110 Or PHIL 220 . Not required for students with 60+ transfer credits. Students do not earn credit if requirement is waived.
  - 3.2.** **Core Quantitative Reason.** MATH 129 Or MATH 130 Or MATH 131 . MATH 121 may be required based on profile scores. Some core courses require a one-hour lab.
  - 4.** **Core Info Literacy.** ENGL 120 .
  - 5.1.** **Core Natural Sci.** BIOL 150 And BIOL 150L And BIOL 160 And BIOL 160L .
  - 5.2.** **Core Social Sci.** CRJC 210 Or ECON 211 Or ECON 212 Or GEOG 210 Or HIST 212 Or HIST 271 Or POLI 200 Or POLI 210 Or POLI 220 Or POLI 270 Or PSYC 210 Or SOCI 210 .
  - 6.** **Core Humn Creative Arts.** ART 210 Or COMM 220 Or ENGL 220 Or ENGL 223 Or ENGL 240 Or ENGL 250 Or ENGL 253 Or HIST 210 Or HUMN 211 Or HUMN 212 Or MUSI 210 Or MUSI 225 Or MUSI 260 Or PHIL 210 Or RELI 215 Or THEA 203 .
  - 7.** **Core Global Literacy.** CHIN 110 Or CHIN 120 Or FREN 110 Or FREN 120 Or SPAN 110 Or SPAN 112 Or SPAN 120 Or SPAN 122 Or YORU 110 Or YORU 120 . Not required for students with 30+ transfer credits from a foreign institution. Students do not earn credit if requirement is waived.
  - 8.** **Core Ethics Civic Engage.** BADM 220 Or COHE 200 Or CRJC 203 Or EDUC 211 Or ENEC 210 Or ENGL 232 Or ENGL 233 Or ETCE 101 Or ETCE 102 Or ETCE 103 Or ETCE 200 Or GEOG 270 Or HCM 200 Or HIST 211 Or PHIL 120 Or PHIL 212 Or PNUR 210 Or POLI 110 Or POLI 150 Or SPTM 210 Or SWRK 220 . Not required for students with 60+ transfer credits. Students do not earn credit if requirement is waived.
  - 9.1.** **Major Required.** BIOL 200 And BIOL 200L And BIOL 225 And BIOL 320 And BIOL 330 And BIOL 330L And BIOL 400 And BOTN 210 And BOTN 210L And BTCH 210 And BTCH 220 And BTCH 230 And BTCH 360 And BTCH 360L And CHEM 141 And CHEM 141L And CHEM 161 And CHEM 161L And PHYS 115 And PHYS 116 And PHYS 125L And PHYS 126L And ZOOL 200 And ZOOL 200L And ZOOL 310 And ZOOL 310L And (BTCH 490 Or BIOL 499).
  - 9.12.** **Concentration Electives.** (BIOL 410 Or BICH 411) Or (BIOL 410L or BICH 421) Or BIOL 430 Or BTCH 310 Or BTCH 320 Or BTCH 340 Or BTCH 340L Or BTCH 350 Or BTCH 410 Or BTCH 425 Or BTCH 435 Or BTCH 435L Or BTCH 440 Or BTCH 450 Or BTCH 460 Or CHEM 223 Or CHEM 223L .
  - 9.2.** **Other Required.** MATH 130 or higher MATH (must be different from choice in the core) .