

Fayetteville State University

Chemistry with a concentration in Pre-Health, BS

Four-Year Degree Plan

Catalog: 2018-2019

Type: Freshman

Last Update: 10/10/2018

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
Year 1 Fall		15			
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	
PHIL 110 Or PHIL 220		3	N	3.1	
MATH 131 - Algebra and Trigonometry		3	Y	3.2	
Core Humn Creative Arts		3	C	6	
Year 2 Fall		15			
Core Oral Comm - SPEE 200*		3	Y	2.2	
CHEM 161 - General Chemistry II Lecture		3	Y	5.1	
CHEM 161L - General Chemistry II Lab		1	Y	5.1	
BIOL 150 - Principles of Biology		3	Y	9.2	
BIOL 150L - Principles of Biology Lab		1	Y	9.2	
MATH 241 - Calculus with Anal Geometry II		4	Y	9.2	
Year 3 Fall		16			
CHEM 211 - Analytical Chemistry Lecture		3	Y	9.1	
CHEM 211L - Analytical Chemistry Lab		1	Y	9.1	
CHEM 225 - Organic Chemistry II		3	Y	9.1	
CHEM 225L - Organic Chemistry II Lab		1	Y	9.1	
PHYS 126 - College Physics II		3	Y	9.2	
PHYS 126L - College Physics Lab II		1	Y	9.2	
ZOOL 210 - Anatomy and Physiology I		3	Y	10	
ZOOL 210L - Anatomy and Physiology I Lab		1	Y	10	
Year 4 Fall		12			
BICH 412 - Biochemistry II		3	Y	9.1	
CHEM 315 - Physical Chemistry for Life Sciences		3	Y	9.1	
PSYC 210 - General Psychology		3	N	10	
ZOOL 310 - Principles of Genetics		3	Y	10	

Degree Total:

120

Year/Term	Course/Requirement	Cr	Pre	Req	Note/Equivalent
Year 1 Spring		15			
UNIV 102 - Freshman Seminar II		1	N	1.1	
ENGL 120 - English Composition II		3	Y	4	
CHEM 141 - General Chemistry I Lecture		3	Y	5.1	
CHEM 141L - General Chemistry I Lab		1	Y	5.1	
Core Global Literacy		3	C	7	
MATH 142 - Calculus with AnalyticGeometry		4	Y	9.2	
Year 2 Spring		17			
Core Social Sci - ECON 212*		3	N	5.2	
CHEM 200 - Chem Lit Search and Analysis		2	Y	9.1	
CHEM 223 - Organic Chemistry I Lecture		3	Y	9.1	
CHEM 223L - Organic Chemistry I Lab		1	Y	9.1	
PHYS 125 - College Physics I		3	Y	9.2	
PHYS 125L - College Physics I Lab		1	Y	9.2	
BIOL 200 - Cellular Biology		3	Y	10	
BIOL 200L - Cellular Biology Lab		1	Y	10	
Year 3 Spring		17			
BICH 411 - Biochemistry I		3	Y	9.1	
CHEM 311 - Instrumental Analysis Lecture		3	Y	9.1	
CHEM 311L - Instrumental Analysis Lab		2	Y	9.1	
CHEM 398 - Pre-Health Internship		1	Y	9.1	
BIOL 330 - Microbiology & Immunology		3	Y	10	
BIOL 330L - Microbiology & Immunology Lab		1	Y	10	
ZOOL 230 - Anatomy and Physiology II		3	Y	10	
ZOOL 230L - Anatomy and Physiology II Lab		1	Y	10	
Year 4 Spring		13			
Core Ethics Civic Engage - HCM 200*		3	N	8	
BICH 413		3	C	9.1	
BICH 421 - Biochemistry Laboratory		1	Y	9.1	
CHEM 499 - Chemistry Capstone		3	Y	9.1	
STAT 202 - Basic Probability and Stats		3	Y	10	

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 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.** CHEM 141 And CHEM 141L And CHEM 161 And CHEM 161L .
- 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.** ANTH 210 Or ART 150 Or ART 215 Or BADM 210 Or CHIN 110 Or CHIN 120 Or ENGL 211 Or ENGL 212 Or FREN 110 Or FREN 120 Or GEOG 220 Or GLOBL 200 Or HIST 110 Or HIST 120 Or HIST 270 Or PHIL 211 Or POLI 230 Or SOCI 150 Or SPAN 110 Or SPAN 112 Or SPAN 120 Or SPAN 122 Or THEA 242 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. **Chemistry Courses.** BICH 411 And BICH 412 And BICH 413 And BICH 421 And CHEM 200 And CHEM 211 And CHEM 211L And CHEM 223 And CHEM 223L And CHEM 225 And CHEM 225L And CHEM 311 And CHEM 311L And CHEM 315 And CHEM 398 And CHEM 499 .
- 9.2. **Correlative Requirements.** BIOL 150 And BIOL 150L And MATH 130 And MATH 142 And MATH 241 And PHYS 125 And PHYS 125L And PHYS 126 And PHYS 126L .
10. **Concentration.** BIOL 200 And BIOL 200L And BIOL 330 And BIOL 330L And PSYC 210 And STAT 202 And ZOOL 210 And ZOOL 210L And ZOOL 230 And ZOOL 230L And ZOOL 310 And ZOOL 310L .