

4-Year Degree Plan
 Bachelor of Science (B.S.) in Chemistry with
Chemistry Entrepreneurship Concentration

Catalog: 2019-2020

Type: Freshman

Last updated: 3/6/2019

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/Term	Course/Requirement	Cr	Pre	Req.	Note/Equivalent
Year 1 Fall Semester						Year 1 Spring Semester					
14						16					
ENGL 110 - English Composition I		3	N		2.1	CHEM 141 - General Chemistry I Lecture		3	Y		5.1
MATH 131 - Algebra and Trigonometry		3	Y		3.2	CHEM 141L - General Chemistry I Lab		1	Y		5.1
NSCI 100 - Calculations in Sciences		1	N		9.4	ENGL 120 - English Composition II		3	Y		4
UNIV 101 - Freshman Seminar I		1	N		1.1	UNIV 102 - Freshman Seminar II		1	N		1.1
Critical Thinking (PHIL 110 Or PHIL 220)		3	N		3.1	Core Global Literacy - BADM 210*		3	N		7
Core Humanities and Creative Arts		3	C		6	Core Social Sciences - ECON 212*		3	Y		5.2
						Core Transitional Life - ENTR 100*		2	N		1.2
Year 2 Fall Semester						Year 2 Spring Semester					
15						16					
BIOL 150 - Principles of Biology		3	Y		9.2	ACCT 211 - Principles of Accounting I		3	Y		10
BIOL 150L - Principles of Biology Lab		1	Y		9.2	CHEM 200 - Chemical Lit: Search & Analysis		2	Y		9.1
CHEM 161 - General Chemistry II Lecture		3	Y		5.1	CHEM 223 - Organic Chemistry I Lecture		3	Y		9.1
CHEM 161L - General Chemistry II Lab		1	Y		5.1	CHEM 223L - Organic Chemistry I Lab		1	Y		9.1
MATH 142 - Calculus with Analytic Geometry I		4	Y		9.4	ENTR 300 - Entrepreneurial Discovery & Creativity		3	N		10
Core Oral Communication - BADM 215*		3	Y		2.2	MATH 241 - Calculus with Analytical Geometry II		4	Y		9.4
Year 3 Fall Semester						Year 3 Spring Semester					
15						16					
CHEM 211 - Analytical Chemistry Lecture		3	Y		9.1	BICH 411 - Biochemistry I		3	Y		9.1
CHEM 211L - Analytical Chemistry Lab		1	Y		9.1	CHEM 311 - Instrumental Analysis Lecture		3	Y		9.1
CHEM 225 - Organic Chemistry II		3	Y		9.1	CHEM 311L - Instrumental Analysis Laboratory		2	Y		9.1
CHEM 225L - Organic Chemistry II Lab		1	Y		9.1	CHEM 350 - Introduction to Undergraduate Research		1	N		9.1
MKTG 311 - Principles of Marketing		3	Y		10	ENTR 301 - Entrepr. and New Venture Creation		3	Y		10
PHYS 125 - College Physics I		3	Y		9.4	PHYS 126 - College Physics II		3	Y		9.4
PHYS 125L - College Physics I Lab		1	Y		9.4	PHYS 126L - College Physics Lab II		1	Y		9.4
Year 4 Fall Semester						Year 4 Spring Semester					
14						15					
CHEM 315 - Physical Chemistry for Life Sciences		3	Y		9.1	CHEM 421 - Inorganic Chemistry		3	Y		9.1
CHEM 450 - Undergraduate Research		2	Y		9.1	CHEM 499 - Chemistry Capstone		3	Y		9.1
ENTR 312 - Entrepreneurial Marketing		3	Y		10	ENTR 415 - Entrepreneurial Finance		3	N		10
CHEM 301 - Introduction to Polymer Science		3	Y		9.1	Entrepreneurship Elective		3	C		9.3
Chemistry Elective		3	C		9.2	Core Ethics and Civic Engagement - BADM 220*		3	N		8

DEGREE TOTAL: 121 CREDITS

*See next page for requirements and notes

Maybe none of the other sectors appeal to you, and you have decided to start your own company. Approximately 1 to 2% of all chemists do just that. They may have a great idea for a new product or want the flexibility that comes with controlling their own destiny. Being an entrepreneur requires understanding the business side of science and learning a completely new language of business plans, marketing, advertising, competitive intelligence, market analysis, cash flow, taxes, applicable regulations, intellectual property protection, financing, and much more. Entrepreneurs must decide which things they are going to do themselves, and which they are going to pay someone else to do. Running your own business can be a tightrope walk without a net. If you thrive on challenge and self-reliance, **Chemistry Entrepreneurship** may be the career path for you!

- 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. 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. Transitional Life. ENTR 100 Or FINC 100 Or GEOG 110 Or HEED 112 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. Written Communication. ENGL 110.
 - 2.2. Oral Communication. BADM 215 Or SPEE 200.
 - 3.1. 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. Quantitative Reasoning. MATH 131. MATH 121 may be required based on profile scores. Some core courses require a one-hour lab.
 4. Information Literacy. ENGL 120.
 - 5.1. Natural Sciences. CHEM 141 And CHEM 141L And CHEM 161 And CHEM 161L.
 - 5.2. Social Sciences. CRJC 210 Or ECON 211 Or ECON 212 Or GEOG 210 Or HIST 212 Or POLI 200 Or POLI 210 Or POLI 220 Or PSYC 210 Or SOCI 210.
 6. Humanities and 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. 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 GLBL 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. Ethics and Civic Engagement. BADM 220 Or COHE 200 Or CRJC 203 Or EDUC 211 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 CHEM 200 And CHEM 211 And CHEM 211L And CHEM 223 And CHEM 223L And CHEM 225 And CHEM 225L And CHEM 301 And CHEM 311 And CHEM 311L And CHEM 315 And CHEM 350 And CHEM 421 And CHEM 450 And CHEM 499.
 - 9.2. Chemistry Electives. BICH 412 Or CHEM 400 Or CHEM 422 Or CHEM 423 Or CHEM 424 Or CHEM 430 Or CHEM 431 Or MATS 311 Or MATS 321 Or MATS 360 Or MATS 423 Or MATS 460.
 - 9.3. Entrepreneurship Electives. ENTR 303 Or MGMT 350 Or MGMT 420 Or MGMT 421 Or MGMT 425 Or MGMT 450 Or MKTG 331 Or MKTG 333 Or MKTG 421 Or MKTG 460 Or MKTG 470.
 - 9.4. Correlative Requirements. BIOL 150 And BIOL 150L And MATH 142 And MATH 241 And NSCI 100 And PHYS 125 And PHYS 125L And PHYS 126 And PHYS 126L.
 10. Concentration. ACCT 211 Or ENTR 300 Or ENTR 301 Or ENTR 312 Or ENTR 415 Or MKTG 311.