### Year 1
#### Fall
- **ENGL 110** - English Composition I
- **MATH 131** - Algebra and Trigonometry
- **NSCI 100** - Calculations in Sciences
- **UNIV 101** - Freshman Seminar I
- **Core Critical Thinking (PHIL 110 Or PHIL 220)**
- **Core Humanities and Creative Arts**
- **Core Transitional Life**

#### Spring
- **CHEM 141** - General Chemistry I Lecture
- **CHEM 141L** - General Chemistry I Lab
- **ENGL 120** - English Composition II
- **MATH 125** - College Physics I
- **PHYS 125** - College Physics I Lab

### Year 2
#### Fall
- **BIOL 150** - Principles of Biology
- **CHEM 161** - General Chemistry II Lecture
- **CHEM 161L** - General Chemistry II Lab
- **MATH 241** - Calculus with Analytic Geometry II
- **Core Oral Communication - SPEE 200**

#### Spring
- **BIOL 200** - Cellular Biology
- **CHEM 200** - ChemicalLit: Search & Analysis
- **CHEM 223** - Organic Chemistry I Lecture
- **CHEM 225** - Organic Chemistry II Lab
- **PHYS 126** - College Physics II

### Year 3
#### Fall
- **CHEM 211** - Analytical Chemistry Lecture
- **CHEM 211L** - Analytical Chemistry Lab
- **CHEM 225** - Organic Chemistry II
- **CHEM 225L** - Organic Chemistry II Lab
- **PHYS 126** - College Physics II
- **BIOL 230** - Human Anatomy and Physiology I
- **BIOL 230L** - Human Anatomy and Physiology I Lab

#### Spring
- **BICH 411** - Biochemistry I
- **BIOL 330** - Microbiology and Immunology
- **CHEM 311** - Instrumental Analysis Lecture
- **CHEM 311L** - Instrumental Analysis Laboratory
- **CHEM 398** - Pre-Health Internship
- **BIOL 240** - Human Anatomy and Physiology II
- **BIOL 230L** - Human Anatomy and Physiology II Lab

### Year 4
#### Fall
- **BICH 412** - Biochemistry II
- **CHEM 315** - Physical Chemistry for Life Sciences
- **PSYC 210** - General Psychology
- **BIOL 310** - Principles of Genetics
- **Core Social Sciences - ECON 212**

#### Spring
- **BICH 413** - Biochemistry III
- **BICH 421** - Biochemistry Laboratory
- **CHEM 499** - Chemistry Capstone
- **STAT 202** - Basic Probability and Statistics
- **Core Ethics and Civic Engagement - HCM 200**

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**DEGREE TOTAL: 121 CREDITS**

*See next page for requirements and notes*
# 4-Year Degree Plan
## Bachelor of Science (B.S.) in Chemistry with Pre-Health Concentration

### 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. 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 PNNR 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. | Chemistry Electives. CHEM 422 Or CHEM 423 Or CHEM 424 Or CHEM 430 Or CHEM 431 Or CHEM 432 Or CHEM 433 Or CHEM 440 Or MATS 301 Or MATS 311 Or MATS 321 Or MATS 360 Or MATS 423 Or MATS 460. |
| 9.3. | 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. |