



PRE-PHARMACY EMPHASIS 2020-21 catalog

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Pre-pharmacy requirements for individual pharmacy schools vary. Therefore, it is important to identify and complete those courses required and/or recommended by the schools to which you intend to apply. Many students applying to pharmacy programs will have completed their B.S. degree and are highly competitive. Applications are facilitated through the [PharmCAS](#) application. The PCAT exam is required for application to most Pharmacy programs. The two pharmacy programs in Colorado at University of Colorado Health Sciences Center and at Regis are entry-level Pharm. D. Programs.

Information on the CU Skaggs Pharmacy program can be found at
<https://pharmacy.cuanschutz.edu/academics/pharmd>

Regis Pharmacy program information is at:
<https://www.regis.edu/academics/majors-and-programs/application-requirements/pharmacy-pharmd>

B.S. in Biology with Pre-Pharmacy emphasis—Course requirements

| | Course Name | Credits | Semester |
|--|--|------------|----------|
| Biology Core Courses | | 30 | |
| BIOL171 | First Year Seminar | 1 | |
| BIOL 181/181L | College Biology I-Diversity | 4 | |
| BIOL182/182L | College Biology II-Cellular | 4 | |
| BIOL 201/201L OR BIOL 202/202L | Botany/Lab (S) Zoology/Lab (F) | 4 | |
| BIOL 301/301L | General Microbiology/Lab | 5 | |
| BIOL 412/412L OR BIOL 413/413L OR BIOL414/414L | Cellular Biology/Lab (S) Plant Physiology/ Lab (SO) Vertebrate Physiology/Lab* (F) | 4 | |
| BIOL 350 | Mendelian and Population Genetics | 2 | |
| BIOL 351 | Molecular Biology and Genetics | 2 | |
| BIOL 352 | Evolutionary Biology & Ecology | 3 | |
| BIOL 493 | Senior Seminar (upon completion of core) | 1 | |
| BIOL 311 or 411 | Biochemistry (F) | 3 | |
| Biology Electives | Advisor Approved Upper Division See Electives* List | 12 | |
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| NOTE: The following courses may NOT be used as electives in the Biology major: BIOL 100/L, 112, 121, 121L, 206/L, 223/L, 224/L, 291, 294, 394, 491, 494, 495, and 498. | | | |
| | Total Biology Credits | 45 | |
| Science and Math Support Courses | | Credits | Semester |
| CHEM 121/121L | General Chemistry I/Lab* | 5 | |
| CHEM 122/122L | General Chemistry II/Lab | 5 | |
| CHEM 301/301L | Organic Chemistry I/Lab* | 5 | |
| CHEM 302/302L | Organic Chemistry II/Lab | 5 | |
| PHYS 201/201L | Principles of Physics I/Lab* | 4 | |
| PHYS 202/202L | Principles of Physics II/Lab | 4 | |
| MATH 221 | Applied Calculus | 4 | |
| MATH 156 | Intro to Statistics | 3 | |
| | Total support Credits | 35 | |
| General Education Courses | | Credits | Semester |
| ENG 101 | Rhetoric & Writing/English Composition I | 3 | |
| ENG 102 | Rhetoric & Writing/English Composition II | 3 | |
| | Humanities (Philosophy recommended) | 3 | |
| | Humanities | 3 | |
| COMR 103 | Speaking and Listening | 3 | |
| | Social Science | 3 | |
| ECON 201 or 202 | Principles of Macro or Microeconomics | 3 | |
| | History | 3 | |
| | Total General Education | 24 | |
| Pre-pharmacy requirements | | | |
| BIOL 223/224/L | Human Anatomy & Physiology I and II | 8 | |
| | Open Electives | 8 | |
| | TOTAL CREDITS TO COMPLETE MAJOR | 120 | |

Students completing a B.S. in another major should consult the catalog for major requirements.

Specific Pre-Pharmacy Requirements for application to the CU PharmD Program:

| Courses | Course Name | Cr. | Semester |
|--------------------------------|---|------------|-----------------|
| CHEM 121/122/L | General Chemistry I & II/Labs | 10 | |
| CHEM 301/302/L | Organic Chemistry I & II/Labs | 10 | |
| CHEM 311 or 411 | Biochemistry | 3 | |
| BIOL 181/182/L | College Biology I & II/Labs | 8 | |
| BIOL 301 (301L) | General Microbiology (Lab optional) | 3 or 5 | |
| BIOL 223/224/L | Human Anatomy & Physiology I & II With Labs | 8 | |
| PHYS 201/L and 202/L | Physics I and II/ Labs | 8 | |
| MATH 221 or MATH 126 | Applied Calculus or Calculus & Analytical Geometry I | 4-5 | |
| ENG 101/102 | Rhetoric & Writing/ English Composition I & II | 6 | |
| COMR 103 | Speaking and Listening | 3 | |
| ECON 201 or 202 | Principles of Macro or Microeconomics | 3 | |
| Humanities & Social Science | See Catalog for specific courses | 9 | |
| General Education | See Catalog for specific courses | 9 | |

Specific Pre- Pharmacy requirements for application to Regis University PharmD program:

| Courses | Course Name | Cr. | Semester |
|-------------------------|---|------------|-----------------|
| CHEM 121/122/L | General Chemistry I & II/Labs | 10 | |
| CHEM 301/302/L | Organic Chemistry I & II/Labs | 10 | |
| BIOL 181/182/L | College Biology I & II/Labs | 8 | |
| BIOL 300+ | Upper division Biology & Lab | 4 | |
| BIOL 223/224/L | Human Anatomy & Physiology I & II/Labs | 8 | |
| MATH 221 or MATH 126 | Applied Calculus or Calculus & Analytical Geometry I | 4-5 | |
| ENG 101 | Rhetoric & Writing/English Composition I | 3 | |
| COMR 103 | Speaking and Listening | 3 | |
| ECON 201 or 202 | Principles of Macroeconomics or Microeconomics | 3 | |
| Social Sciences | See Catalog for specific courses (Psychology and Sociology recommended) | 6 | |
| General Electives | See Catalog (Philosophy recommended) | 9 | |