



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	
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 & 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	