MEDICINAL CHEMISTRY, BS

Example Plan of Study

Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
MATH 2144	Calculus I (A)	4
CHEM 1314	Chemistry I (LN)	4
General Education and College courses		7
	Hours	**15**
Spring		
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
CHEM 1515	Chemistry II (LN)	5
MATH 2153	Calculus II (A) (or 3 hours STAT)	3
General Education courses		3
	Hours	**15**
Sophomore		
Fall		
CHEM 3053	Organic Chemistry I	3
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
PHYS 1114 or PHYS 2014	College Physics I (LN) or University Physics I (LN)	4
General Education courses		3
	Hours	**15**
Spring		
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
MICR 3033	Cell and Molecular Biology (recommended elective)	3
PHYS 1214 or PHYS 2014	College Physics II (LN) or University Physics I (LN)	4
General Education and College courses		3
	Hours	**15**
Junior		
Fall		
BIOL 3204	Physiology	4
CHEM 2113	Principles of Analytical Chemistry	3
CHEM 2122	Quantitative Analysis Laboratory	2
BIOC 3653 or MICR 3223	Survey of Biochemistry or Advanced Microbiology	3
College and Elective courses		3
	Hours	**15**
Spring		
BIOL 3023	General Genetics	3
CHEM 3363 or CHEM 3353	Bioinorganic Chemistry (every other year) or Descriptive Inorganic Chemistry	3
CHEM 3413	Physical Chemistry Applications	3
STAT 3023 or STAT 2013 or STAT 4013	Statistical Reasoning for Medical Applications (A) (if did not take MATH 2153) or Elementary Statistics (A) or Statistical Methods I (A)	3
College and Elective courses		3
	Hours	**15**
Senior		
Fall		
CHEM 4313 or CHEM 4322	Medicinal Organic Chemistry (Every other Fall) or Advanced Organic Chemistry Laboratory	3
CHEM 4990	Special Problems in Chemistry	1
College and Elective courses		11
	Hours	**15**
Spring		
CHEM 4022	Modern Methods of Chemical Analysis Laboratory	2
CHEM 4023	Modern Methods of Chemical Analysis	3
CHEM 4123	Biomolecular Chemistry and Function (every other year)	3
CHEM 4990	Special Problems in Chemistry	1
College and Elective courses		6
	Hours	**15**
	Total Hours	**120**

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Speak with academic advisor about saving General Education electives and Humanities (H) for Upper-division courses with International (I) and Diversity (D) dimensions.