

MEDICINE

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Medical schools consider majors in any discipline to be acceptable for admission. Prerequisites are one year of introductory biology with labs, four semester of chemistry with labs (covering general and organic chemistry), one year of physics with labs, one semester of mathematics (statistics recommended), and one semester of psychology. Many medical schools also require one semester of biochemistry with lab.

Although physiology is not a prerequisite for enrollment, it is required in preparation for the Medical College Admission Test (MCAT).

Admission to medical schools is competitive and the admission process considers courses, grades, performance on the MCAT, service record, clinical experiences, personal interviews at the medical schools during the senior year, and letters of evaluation. General information can be found in the CSB/SJU Pre-professional health programs web page (<http://www.csbsju.edu/pre-professional-health/pre-medicine>) (<http://www.csbsju.edu/pre-professional-health/pre-medicine/>) as well as the American Association of Medical Colleges web site (<http://www.aamc.org/>) and American Association of the Colleges of Osteopathic Medicine (<http://www.aacom.org>).

CSB/SJU courses that meet general admissions requirements and prepare students for the MCAT are:

Code	Title	Hours
BIOL 101	Foundations of Biology	4
BIOL 201	Intermediate Cell Biology and Genetics	4
BIOL 317	Biochemistry	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 201	Purification and Separation Lab I	1
CHEM 202	Purification and Chromatography Lab II	1
CHEM 203	Synthesis Lab	1
CHEM 205	Chemical Measurement Lab	1
Eight credits of physics		8
MATH 124	Probability and Statistical Inference	4

Additional coursework to complete before taking the MCAT exam would include:

Code	Title	Hours
One of the following:		4-8
BIOL 216	Human Physiology	
BIOL 323	Animal Physiology	
BIOL 325 & BIOL 326	Human Anatomy and Physiology I and Human Anatomy and Physiology II	
PSYC 111	Introductory Psychology	4
SOCI 111	Introduction to Sociology	4

Coursework in upper division literature and courses with intensive writing components are also typically required by most allopathic and osteopathic medical schools.

Additional Requirements:

General Education Requirements:

All undergraduate students must complete the requirements of the Integrations Curriculum (IC) which is designed to ensure all of our students receive a liberal arts education. Please review details of the Integrations Curriculum (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/integrations-curriculum/>) requirements here (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/integrations-curriculum/>).

Graduation Requirements:

In addition to the Integrations Curriculum, all undergraduate students must meet the following minimum degree requirements to earn their degree from CSB and SJU.

Credits: 124 total credits, 40 of which must be from upper division coursework

GPA: 2.0 or higher*

Residency: At least 24 of your last 32 credits must be completed at CSB/SJU

Please visit Graduation (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/graduation/>) under the Academic Policies and Regulations (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/>) portion of the catalog for additional details regarding degree requirements.

* Cumulative GPA as well as major(s)/minor(s) GPA. Please note some majors/minors may require a higher GPA to earn their degree.

Four Year Plans

Pre-Medicine with Study Abroad

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
Cultural/Social Difference - Identity (take SOCI 111)		4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
Hours		18
Spring		
Language 111		4
THEO 100	Theological Explorations	4
BIOL 201	Intermediate Cell Biology and Genetics	4
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
CHEM 202	Purification and Chromatography Lab II	1
Hours		17
Second Year		
Fall		
Language 112		4
MATH 124	Probability and Statistical Inference	4
PHYS 105	Physics for the Life Sciences I	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4

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CHEM 203	Synthesis Lab	1
Hours		17
Spring		
Language 211		4
PSYC 111	Introductory Psychology	4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
Hours		17
Third Year		
Fall		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
Course for Major/Minor		4
Course for Major/Minor		4
Hours		16
Spring		
Study Abroad		16
Global Engagement		
Experiential Engagement		
Cultural/Social Difference - Systems		
Human Experience		
Hours		16
Fourth Year		
Fall		
Theological Integrations		4
Artistic Expression		4
Course for Major/Minor		4
Course for Major/Minor		4
Hours		16
Spring		
INTG 300	Learning Integrations	4
Course for Major/Minor		4
Course for Major/Minor		4
Any Remaining Requirements		4
Hours		16
Total Hours		133

Pre-Medicine with BCHM Major

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
Cultural/Social Difference - Identity (take SOCI 111)		4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
Hours		18
Spring		
Language 111		4
THEO 100	Theological Explorations	4
BIOL 201	Intermediate Cell Biology and Genetics	4
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
CHEM 202	Purification and Chromatography Lab II	1
Hours		17
Second Year		
Fall		
Language 112		4
MATH 119	Calculus I	4

PHYS 105	Physics for the Life Sciences I	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
CHEM 203	Synthesis Lab	1
Hours		17
Spring		
Language 211		4
MATH 124	Probability and Statistical Inference	4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
Hours		17
Third Year		
Fall		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
PSYC 111	Introductory Psychology	4
Human Experience		4
Hours		16
Spring		
CHEM 315	Advanced Reactions (Reactivity 3)	4
Global Engagement		4
Cultural/Social Difference - Systems		4
Course for Major/Minor		4
Hours		16
Fourth Year		
Fall		
Theological Integrations		4
BIOL 311	Cell Biology	4
Artistic Expression		4
Course for Major/Minor		4
Hours		16
Spring		
INTG 300	Learning Integrations	4
BIOL 318	Molecular Genetics	4
Elective		4
BCHM 375	Biochemistry Capstone	2
BCHM XXX Exam		0
Hours		14
Total Hours		131

Pre-Medicine with BCHM Major with Study Abroad

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
Cultural/Social Difference - Identity (take SOCI 111)		4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
Hours		18
Spring		
Language 111		4
THEO 100	Theological Explorations	4
BIOL 201	Intermediate Cell Biology and Genetics	4
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
CHEM 202	Purification and Chromatography Lab II	1
Hours		17

Second Year

Fall		
Language 112		4
MATH 119	Calculus I	4
PHYS 105	Physics for the Life Sciences I	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
CHEM 203	Synthesis Lab	1
Hours		17

Spring		
Language 211		4
MATH 124	Probability and Statistical Inference	4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
Hours		17

Third Year

Fall		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
PSYC 111	Introductory Psychology	4
Hours		12

Spring		
Study Abroad		
Global Engagement		4
Experiential Engagement		4
Cultural/Social Difference - Systems		4
Human Experience		4
Hours		16

Fourth Year

Fall		
CHEM 315	Advanced Reactions (Reactivity 3)	4
BIOL 311	Cell Biology	4
Theological Integrations		4
Artistic Expression		4
Hours		16

Spring		
INTG 300	Learning Integrations	4
BIOL 318	Molecular Genetics	4
Elective		4
BCHM 375	Biochemistry Capstone	2
BCHM XXX Exam		0
Hours		14

Total Hours 127

Pre-Medicine with Biology Major with Study Abroad

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
Cultural/Social Difference - Identity (take SOCI 111)		4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
Hours		18
Spring		
Language 111		4
THEO 100	Theological Explorations	4
BIOL 201	Intermediate Cell Biology and Genetics	4
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4

CHEM 202	Purification and Chromatography Lab II	1
Hours		17

Second Year

Fall		
Language 112		4
MATH 124	Probability and Statistical Inference	4
PHYS 105	Physics for the Life Sciences I	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
CHEM 203	Synthesis Lab	1
Hours		17

Spring		
Language 211		4
PSYC 111	Introductory Psychology	4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
Hours		17

Third Year

Fall		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
Artistic Expression		4
Hours		12

Spring		
Study Abroad		
Global Engagement		4
Experiential Engagement		4
Cultural/Social Difference - Systems		4
Human Experience		4
Hours		16

Fourth Year

Fall		
Theological Integrations		4
BIOL 202	Evolution in Action	4
BIOL 3@@@		4
Elective		4
Hours		16

Spring		
INTG 300	Learning Integrations	4
BIOL 3@@@		4
BIOL 3@@@		4
BIOL 380 Capstone		2
Hours		14

Total Hours 127

Pre-Medicine with History Major with Study Abroad

Course	Title	Hours
First Year		
Fall		
INTG 100	Foundations	4
INTG 105	College Success	1
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
HIST CSDI		4
Hours		18
Spring		
THEO 100	Theological Explorations	4
BIOL 201	Intermediate Cell Biology and Genetics	4

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CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
LANG 111		4
CHEM 202	Purification and Chromatography Lab II	1
Hours		17
Second Year		
Fall		
PHYS 105	Physics for the Life Sciences I	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
CHEM 203	Synthesis Lab	1
LANG 112		4
HIST 295	History Colloquium	4
Hours		17
Spring		
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
PSYC 111	Introductory Psychology	4
LANG 211		4
Hours		17
Third Year		
Fall		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
SOCI 111	Introduction to Sociology	4
MATH 124	Probability and Statistical Inference	4
Hours		16
Spring		
Study Abroad		16
AE course		
HIST course abroad		
Hours		16
Fourth Year		
Fall		
HIST Theology 300 level		4
HIST 300 level - potential CS		4
HIST 200 or 300 level elective		4
HIST 395	Historiography	4
Hours		16
Spring		
INTG 300	Learning Integrations	4
HIST 399	Senior Thesis	4
HIST Elective 300 level		4
HIST Elective 300 level		4
Hours		16
Total Hours		133