

# VETERINARY MEDICINE

**Advisor:** Clark Cotton

Graduate programs in veterinary medicine consider majors in any discipline to be acceptable for admission. However, significant coursework in Biology, Chemistry, and Physics are prerequisites for entry. Entrance requirements for schools of veterinary medicine vary; students should inform themselves of the courses required by the school which they plan to attend. A pre-requisite chart for entrance into all veterinary schools can be found at <http://www.aavmc.org/data/files/vmcas/prereqchart.pdf>. Admission to veterinary medicine programs is competitive and the admission process considers courses, grades, performance on Graduate Record Exam, animal experience, veterinary medicine exposure, personal interviews at the veterinary schools during the senior year, and letters of evaluation. General information can be found at the Veterinary Application site (<http://www.aavmc.org/Students-Applicants-and-Advisors/Veterinary-Medical-College-Application-Service.aspx>) or at the Association of American Veterinary Medical Colleges (<http://www.aavmc.org/>).

There are a limited number of veterinary programs in the country and some specialize in different areas of veterinary medicine (i.e. exotic animals, large production animals, equine, etc.). Therefore, it is highly recommended that students look at the various programs and identify their own potential schools of interest. In addition, the pre-requisites do vary from program to program. The following courses are recommended as generally fulfilling prerequisites for schools of veterinary medicine:

Code	Title	Hours
BIOL 101	Foundations of Biology	4
BIOL 201	Intermediate Cell Biology and Genetics	4
BIOL 307	Biology of Microorganisms <sup>1</sup>	4
BIOL 316	General 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 255	Macroscopic Chemical Analysis (Inorganic and quantitative)	4
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2) (only required if a full year of organic is required)	4
Labs (for credit):		
CHEM 201	Purification and Separation Lab I	1
CHEM 202	Purification and Chromatography Lab II	1
CHEM 205	Chemical Measurement Lab	1
CHEM 203	Synthesis Lab (if two semesters of organic is required)	1
MATH 124	Probability and Statistical Inference	4
MATH 119	Calculus I	4
PHYS 105	Physics for the Life Sciences I	4
PHYS 106	Physics for the Life Sciences II	4

<sup>1</sup> While we offer a 200 level Microbiology course, graduate schools prefer students complete the upper level microbiology coursework.

- Some veterinary programs require courses in anatomy and physiology. It is recommended that students take BIOL 323 Animal Physiology and BIOL 330 Comparative Anatomy of Vertebrates at CSB/SJU.
- Some veterinary programs also require a course in writing, a public speaking course, and some general coursework in the Humanities.

In addition, it is recommended that you obtain some significant experience working with animals and shadowing veterinarians. In fact, some schools specifically ask for a letter of recommendation from a veterinarian.

## 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-Veterinary Medicine with Biology Major with Study Abroad

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
INTG 105	College Success	1
INTG 100	Foundations	4
	Cultural/Social Difference - Identity	4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
	<b>Hours</b>	<b>18</b>
<b>Spring</b>		
Language 111		4
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
CHEM 202	Purification and Chromatography Lab II	1
<b>Hours</b>		<b>17</b>
<b>Second Year</b>		
<b>Fall</b>		
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
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
Language 211		4
SW		4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
<b>Hours</b>		<b>17</b>
<b>Third Year</b>		
<b>Fall</b>		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
MATH 124	Probability and Statistical Inference	4
Artistic Expression		4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
Study Abroad		
Global Engagement		4
Experiential Engagement		4
Cultural/Social Difference - Systems		4
Human Experience		4
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
Theological Integrations		4
BIOL 307	Biology of Microorganisms	4
BIOL 202	Evolution in Action	4
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
INTG 300	Learning Integrations	4
BIOL 316	General Genetics	4
BIOL 3XX		4
BIOL 380 Capstone		2
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>127</b>

## Pre-Veterinary Medicine with Study Abroad - No Major Included

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
INTG 105	College Success	1
INTG 100	Foundations	4
Cultural/Social Difference - Identity		4
BIOL 101	Foundations of Biology	4
CHEM 125	Introduction to Chemical Structure and Properties	4
CHEM 201	Purification and Separation Lab I	1
<b>Hours</b>		<b>18</b>

<b>Spring</b>		
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
<b>Hours</b>		<b>17</b>
<b>Second Year</b>		
<b>Fall</b>		
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
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
Language 211		4
SW		4
PHYS 106	Physics for the Life Sciences II	4
CHEM 255	Macroscopic Chemical Analysis	4
CHEM 205	Chemical Measurement Lab	1
<b>Hours</b>		<b>17</b>
<b>Third Year</b>		
<b>Fall</b>		
BIOL 317	Biochemistry	4
BIOL 323	Animal Physiology	4
MATH 124	Probability and Statistical Inference	4
Artistic Expression		4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
Study Abroad		
Global Engagement		4
Experiential Engagement		4
Cultural/Social Difference - Systems		4
Human Experience		4
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
Theological Integrations		4
BIOL 307	Biology of Microorganisms	4
<b>Hours</b>		<b>8</b>
<b>Spring</b>		
INTG 300	Learning Integrations	4
BIOL 316	General Genetics	4
<b>Hours</b>		<b>8</b>
<b>Total Hours</b>		<b>117</b>