

## BIOLOGY

### IF STUDENT'S GOAL IS DENTAL, MEDICAL OR VETERINARY SCHOOL, THESE ARE THE TYPICAL REQUIREMENTS

Students are responsible for determining the specific required and recommended courses for medical, dental and veterinary schools of interest to them, well before beginning the application process. The following are the typical requirements but there may be exceptions. For example many veterinary schools require biochemistry, genetics, and microbiology.

Minimum courses required: 15

<u>Course requirement</u>	<u>Semester Taken</u>
1. BIO 111: Evolution and Ecology	_____
2. BIO 112: Cells and Genes (Biology 111 and 112 can be taken in any order)	_____

FOUR 200-level courses\*, to include at least three courses with labs:

3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____

THREE 300-level courses\*, to include at least two courses with labs:

7. _____	_____
8. _____	_____
9. _____	_____

\* The 200 and 300 level courses must include a minimum of one course from each of three areas Cells and Molecules, Organisms, and Systems. For the complete list, please see the Biology major advising sheet.

10. CHEM 153: Chemical Principles	_____
11. CHEM 232: Aqueous Equilibria and CHEM 253: Organic Chemistry I and CHEM 254: Organic Chemistry II	_____

THREE related courses from biology, chemistry, mathematics/computer science or physics:

12. PHYS 170: Physics I	_____
13. PHYS 171: Physics II	_____
14. Calculus or Statistics	_____
15. CAPSTONE: Bio 401/402 Senior Seminar or approved independent research. Public presentations of honors thesis work, approved by the department, count as the Senior Capstone.	_____

Students are responsible for preparing the course content or topics that are tested on the Medical College Admission Test (the MCAT). That preparation could include studying topics on their own, taking specific courses and taking MCAT preparation courses outside of Wheaton. The MCAT includes physics, chemistry, psychology and sociology and several broad areas of biology. These include topics or course content from **physiology, microbiology, genetics, molecular biology, cell biology, neuroscience, developmental biology, biochemistry and evolution**. Starting in 2015 the MCAT will have more biochemistry and molecular biology than previously. Students are responsible for determining their own approach to preparing these topics, well ahead of time. Taking some of the actual courses such as Biochemistry or Genetics is a logical plan for majors in the biological sciences. Pre-veterinary students should check veterinary schools of interest to determine whether they require the MCAT or the Graduate Record Examination (GRE).