

PRE-DENTAL COURSE REQUIREMENTS

College Mathematics

1. Required: Math. Two semesters, minimum, college algebra (Math 112) and trigonometry (Math 113)
 2. Recommended: Math 221 (Calculus and Analytic Geometry) **or** Math 211 (Calculus) or equivalent and statistics.
- Your major may also have specific math requirements.

Chemistry

1. General chemistry (choose **one** of these four sequences):
 - a) Chemistry 103-104 (General Chemistry)
 - b) Chemistry 109 (General and Analytical Chemistry) and Chemistry 311
 - c) Chemistry 109 plus Chemistry 327 or 329
 - d) Chemistry 115-116 (Chemical Principles)
2. Organic Chemistry (**all courses required at most dental schools**):
 - a) Chemistry 343 (Introductory Organic Chemistry)
 - b) Chemistry 344 (Introductory Organic Chemistry Lab)
 - c) Chemistry 345 (Intermediate Organic Chemistry)

Biological Science

Choose **one** of these two course tracks:

1. **General Track**
 - a) Biology 151-152 (Introductory Biology, cross-listed as Zoology 151-152) **or**
 - b) Zoology 101-102* (Animal Biology)
* If you take Zoology 101-102, we strongly recommend that you also take Botany 130 to complement this course.

Plus Intermediate/Advanced Biology:

At least one semester of lecture with one semester of lab is required. If you are a non-science major or wish to strengthen your biology background and record, you would do well to take at least two of these courses:

- a) Zoology 430 (Comparative Anatomy of Vertebrates)
 - b) Zoology 466 (General Genetics)
 - c) Zoology 611-612 (Comparative and Evolutionary Physiology)
 - d) Biochemistry 501** (Introduction to Biochemistry) **or**
 - e) Biomolecular Chem 503 **or**
 - f) Biochemistry 507-508 (General Biochemistry)
 - g) Physiology 335
 - h) Statistics 541.
- ** may be required

Please consult your pre-dental advisor regarding selection of these and/or other upper-level biological/physical sciences. Individual dental schools may have additional options.

2. **Biology Core (Biocore) Curriculum Track**

- a) Biocore 301-302 *** (Evolution, Ecology and Genetics lecture/lab)
- b) Biocore 303-304 (Cellular Biology lecture/lab)
- c) Biocore 323-324 (Organismal Biology lecture/lab)
- d) Biocore 333 (Biological Interactions)

***Lab requirements in total Biocore sequence depend on your major.

Prerequisites to begin Biocore: Completion of Chemistry 104, 109 or 115, Math 221 or 211, concurrent or previous enrollment in Chemistry 343, and submission of an application in mid-March of spring semester prior to fall registration in which initial Biocore course begins.

Applications will be accepted until positions fill. See *Guidebook* or *Undergraduate Catalog*, or check <http://www.biocore.wisc.edu/biocore>, for further details on Biology Core Curriculum.

Biocore is not a major but 18 credits of Biocore fulfills some or all of the biology requirements for a variety of biological sciences majors.

Physics

Choose **one** of these three sequences, all of which are entitled "General Physics":

- a) Physics 103-104 (without calculus)
- b) Physics 201-202 (calculus-based)
- c) Physics 207-208 (calculus-based)

English / Public Speaking

1. You will need six credits of English composition, or literature taught in English, with emphasis in composition.
2. Many dental schools also recommend a course in public speaking.

Social Sciences and Art

1. Many dental schools recommend psychology courses.
2. For hand-eye coordination, consider taking Art 102/104 or drawing.

Some Ongoing Activities

1. Meeting with pre-dental advisor at least once per semester.
2. Meeting with major advisor at least once per semester.
3. Participating in extracurricular, volunteer, paid work, research, or other out-of-classroom activities. Keeping in mind that course work takes first priority, achieve a suitable balance. Volunteer experience in a hospital is essential.
4. Researching dental schools to which you will apply.
5. Trying your best to maintain quality and consistency in your academic performance.