

## PRE-DENTAL PROGRAM PLANNING GUIDE

<b>FIRST YEAR</b>	
<p><i>Semester I:</i>            Chemistry 103 or 109            Math (according to placement)            Social Science*            Foreign Language or Humanities*</p>	<p><i>Semester II:</i>            Chemistry 104, if took 103; or 327 or 329, if took 109            Social Science (Psychology recommended)            Foreign Language or Humanities</p>
<b>SECOND YEAR</b>	
<p><i>Semester I:</i>            Chemistry 343            Biology 151 or Biocore 301 and 302            Additional Math, if necessary (calculus and/or stats preferred)            Drawing or 3-dim. Design (at any time before applying)            General Breadth/Major Requirement(s)</p>	<p><i>Semester II:</i>            Chemistry 344 and/or 345            Biology 152 or Biocore 303 and 304 or upper-level Biology            Additional Math, if necessary            General Breadth/Major Requirement(s)            (Think about dental school recommendations and from whom they will come.)</p>
<b>THIRD YEAR</b>	
<p><i>Semester I:</i>            Organic Chemistry, if not already completed            Physics 103 or 207 or 201            Intermediate/Advanced Biology (with lab) or Biocore 323 and 324            Major/Breadth Requirements            (Declare major, if not already done.)            (Begin to solicit dental school recommendations.)</p>	<p><i>Semester II:</i>            Physics 104 or 208 or 202            Intermediate/Advanced Biology or Biocore 333            Major/Breadth Requirements            Prepare and register for the DAT.†            (AADSAS materials are on-line at:  <a href="http://www.aadsas.adea.org">http://www.aadsas.adea.org</a>)</p>
<b>FOURTH YEAR</b>	
<p><i>Semester I:</i>            Finish application process to dental school.            Take additional courses for major or general BA/BS degree.            Take additional sciences which may be helpful. (Your basic pre-dental courses should be <u>completed</u> by this time.)            Attend dental school interviews (by invitation).</p>	<p><i>Semester II:</i>            Complete your undergraduate degree program.            Receive your <u>acceptances</u> (hopefully) from dental schools.            Make decisions regarding selection of schools.</p>

\*These are **examples** of general/breadth requirements, and need not be taken in this order.

† The DAT may be taken throughout the year.

>>Volunteer in patient settings and shadow dentists throughout college.<<

## 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 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)

#### ***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 570, Cell Biology
  - d) Zoology 572, Cell Biology Lab
  - e) Zoology 611-612 (Comparative and Evolutionary Physiology)
  - f) Biochemistry 501\*\* (Introduction to Biochemistry) **or**
  - g) Biomolecular Chem 503 **or**
  - h) Biochemistry 507-508 (General Biochemistry)
  - i) Physiology 335
- \*\* 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.
2. For hand-eye coordination, consider taking Art 102/104 or drawing.

## **Some Ongoing Activities**

1. Meeting with pre-dental advisor once per semester.
2. Meeting with major advisor 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. Volunteering, shadowing, or work experience in a dental office or clinic is essential.
4. Researching dental schools to which you will apply.
5. Trying your best to maintain quality and consistency in your academic performance.

