Biology majors may obtain a Pre- Dentistry option by satisfying the requirements below. Courses used to satisfy these requirements also satisfy the Organismal Biology, Physiology, Writing Intensive Course (WIC) and upper division science elective requirements in the Biology major. Students completing the requirements listed below will meet the prerequisites for most CODA accredited dental schools in the U.S. and abroad. Students should always consult the requirements of all schools to which they plan to apply. Previous versions of this option are different and are tracked in MyDegrees. All courses and prerequisites are subject to change.

<table>
<thead>
<tr>
<th>Pre-Dentistry Courses</th>
<th>Pre(Co)requisites</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 218 Interpersonal Comm. (recommended)</td>
<td></td>
<td>F, W, SP, SU</td>
<td>3</td>
</tr>
<tr>
<td>BI 107 Pre-Dental Orientation</td>
<td></td>
<td>W</td>
<td>1</td>
</tr>
<tr>
<td>PSY 201 and PSY 202 General Psychology</td>
<td></td>
<td>F, W, SP, SU</td>
<td>3</td>
</tr>
<tr>
<td>PHL 205 Ethics OR PHL 444 Biomedical Ethics</td>
<td>Sophomore standing PHL 444</td>
<td>F, W, SP, SU</td>
<td>4</td>
</tr>
</tbody>
</table>

**Writing Intensive Course (WIC) (Select one course from the following):**

- **BI/Bi 317 Scientific Theory and Practice**
  - BI 211, 212, 213
  - F, SP
  - 3

- **Bi/Z 319 Critical Thinking and Comm. in Life Sci.**
  - BI 211, 212, 213; ST 351, 352
  - SP
  - 3

- **Bi 414H Writing for the Biological Sciences AND Bi 415H Biological Sciences Thesis**
  - HC 408 Thesis: Learn/ Undertake or UHC approval
  - F, W, SP, SU
  - 2, 1

- **BHS 323 Microbial Influences on Human Health**
  - MB 302 or BI 314 or BB 450
  - F, Sp
  - 3

- **HSTS 417 History of Medicine**
  - Junior standing
  - ?
  - 4

<table>
<thead>
<tr>
<th>Physiology Elective (Select one course from the following):</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bi 451 Functional Anatomy of Human Muscular System</strong></td>
</tr>
<tr>
<td>BI 331-333/341-343 by application</td>
</tr>
<tr>
<td>SU</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

- **PSY 432 Physiological Psychology**
  - PSY 330
  - Sp
  - 3

- **Z 422 Comparative Vertebrate Anatomy**
  - BI 211, 212, 213
  - F
  - 5

- **Z 425 Embryology and Development**
  - BI 311, 314; Junior Standing
  - F
  - 5

- **Z 438 Behavioral Neurobiology**
  - BI 211, 212, 213; CH 233/263
  - Sp
  - 3

Select one 3+ credit, upper division (300-400 level) science elective courses not used above: Courses from BB, BI, BOT, CH, MB, MTH, PH, ST, & Z including double major, minor and Bacc. Core may be used with the exception of courses listed as excluded below. Other science courses outside of COS and other credits taken internationally may be used by approval. Three credits of BI 401 Research will also meet this requirement. Excluded: 405 Reading and Conference, 406 Projects, 407 Seminar, 409 Practicum, 410 Internship, BB 350, BB 490–BB 492, BI 331–BI 333, BI 341–BI 343, CH 334, CH 335, CH 336, ST 314 and any 399 or 499 courses not specifically approved.

Applying to Dental School

**Application Seminar:** Students should plan to attend an application seminar fall of the year they will apply. The times and dates of application seminars are announced on the pre-dental listserve.

**Admission Test:** Dental school applicants must take the Dental Admissions Test (DAT [http://www.ada.org/dat.aspx]). Sylvan Prometric Centers in Portland and Eugene offer the test.

**References:** It is important to begin establishing relationships with professors and dental professionals early in your education. Applicants will generally need a minimum of three references, and one of them must be from a dentist. References who can speak about you beyond a grade you received and can address your character and professionalism will be particularly strong.

**Manual Dexterity and Artistry:** Dentistry requires a great deal of manual dexterity and artistry as a profession, and students are expected to test and develop these skills during their undergraduate careers. Examples of activities include playing an instrument, engaging in three-dimensional art (ceramics, carving, jewelry making, etc.) or activities such as model building or origami. Students can and should engage in these activities at the OSU Craft Center, community courses or as hobbies on their own.

**Leadership:** Health profession schools value leadership experience as a way to develop interpersonal skills and the ability to lead as part of a team. There are a variety of ways to incorporate leadership experiences as an undergraduate, including: officer roles in a student club, coordinator for an organization (public, private, or non-profit), or being a peer mentor or an ambassador for your college or department. Students may also consider taking leadership courses or completing the OSU Leadership Minor ([http://agsci.oregonstate.edu/leadership_minor/]).
Dental Experience
Dental experience is very important. Network with dentists from your hometown, or check out local opportunities. Many students get trained to assist or work at local dental labs. Other medical experience is also helpful and some opportunities are listed below:

- [Shadowing](http://ib.oregonstate.edu/files/ib/Healthcare%20Experience.pdf)
- [Internships & Volunteering](http://ib.oregonstate.edu/professional/internship-research/intern-volunteer-list)

### Summer Programs
There are summer programs at dental schools that are designed to help support rural, disadvantaged and underrepresented minority students to gain entrance to professional school. An example of one is the Summer Health Professions Education Program at [http://www.shpep.org/](http://www.shpep.org/).

### International Medical Internships
Prepare you for work in a diverse population, improve language and/or cross-cultural communication skills, and gain clinical experience through clinic rotations. See [http://ib.oregonstate.edu/professional/international](http://ib.oregonstate.edu/professional/international).

### Health Care Careers Enrichment Programs
- See link below for a searchable database of summer programs to learn what it is like to work in health care or research [http://explorehealthcareers.org/en/careers/programs](http://explorehealthcareers.org/en/careers/programs).

### Research Opportunities
Research provides the opportunity to develop analytical and communication skills, as well as an understanding of research methods and the process of science. For these reasons, it is considered excellent preparation for a career being a Physician Assistant. For opportunities visit [http://ib.oregonstate.edu/professional/research-internships](http://ib.oregonstate.edu/professional/research-internships).

### Dental Information
- For [Dental Information](http://ib.oregonstate.edu/professional/international), contact your assigned advisor or go to [http://ib.oregonstate.edu/advising/appointments](http://ib.oregonstate.edu/advising/appointments).
- To join, send an email using your ONID account to predental-join@lists.oregonstate.edu and reply to the email response.

### Contact offices and clinics either in Corvallis or at home to see what opportunities are available.
To learn more about healthcare experience, you may view this document: [http://ib.oregonstate.edu/files/ib/Healthcare%20Experience.pdf](http://ib.oregonstate.edu/files/ib/Healthcare%20Experience.pdf)

### Pre-Dentistry Society Information
Pre-dental students are encouraged to join the Pre-dental Society. The club takes field trips, visits OHSU, and has speakers. Contact predental@oregonstate.edu.

### Pre-Dentistry Listserv
Join the pre-dentistry listserv to hear about opportunities for pre-dentistry students. To join, send an email using your ONID account to predental-join@lists.oregonstate.edu and reply to the email response.

### Pre-Dental Advising
Contact your assigned advisor or go to [http://ib.oregonstate.edu/advising/appointments](http://ib.oregonstate.edu/advising/appointments).

### Additional Pre-Dental Information
Go to [http://www.science.orst.edu/node/113](http://www.science.orst.edu/node/113).

### Other Course Tips and Recommendations:
#### Baccalaureate Core and Electives
- It is important to take liberal arts courses as preparation for dental school. Baccalaureate Core Courses requiring writing and literature are especially useful.

#### SPAN 221 & 222: Spanish for Medical Professions I and II
- Provide students in health science and pre-professional disciplines with a working knowledge of Spanish used in health sciences and cultural competency needed to serve Latino Populations. (Prerequisite: SPAN 113 with a C- for SPAN 221. Courses are taken in order).

#### Business Electives or Minor
- Running a dental practice is a significant business endeavor, and a background in business coursework can be helpful. Taking one or several business electives is a good idea, and some students complete a minor.

#### Online & Study Abroad Courses
- Although specific professional courses should not be done abroad, study abroad is a great opportunity and very feasible for pre-dental students. You can work with your advisor on how to schedule and apply study abroad courses to your degree. See programs at [http://ib.oregonstate.edu/professional/international](http://ib.oregonstate.edu/professional/international).
- Students should not take specific professional school prerequisite classes online. Some dental schools will not accept online science courses (especially those with online labs) or classes from study abroad programs.

### Additional Resources
- American Dental Association [www.ada.org](http://www.ada.org) and American Student Dental Association [http://www.asdanet.org/](http://www.asdanet.org/)
- American Dental Education Association [www.adea.org](http://www.adea.org)
- Biology Careers page – Medicine and Health Careers [http://ib.oregonstate.edu/professional/careers](http://ib.oregonstate.edu/professional/careers)
- Explore Health Careers [www.explorehealthcareers.org](http://www.explorehealthcareers.org)
- Furman University Health Care Links [http://facweb.furman.edu/~jsnyder/careers/medical.html](http://facweb.furman.edu/~jsnyder/careers/medical.html)
- Oregon Health & Sciences University School of Dentistry [www.ohsu.edu/sod/](http://www.ohsu.edu/sod/)