**PRE-DENTAL MEDICINE**

**Introduction**

Students interested in a career in Dental Medicine have the option of pursuing any major along with completing specific prerequisites. Students must gain a thorough understanding of the profession through a range of shadowing experiences, demonstrate a commitment to service, and earn a competitive score on the Dental Admission Test (DAT). Students should work with the Pre-Med Advisor beginning in the first college year to select appropriate coursework based on their schools of interest, and to plan for appropriate co-curricular experiences. In addition to the information in this section, please check the general information at the pre-medical and pre-health section of the catalog (http://catalog.canisius.edu/undergraduate/academics/curricular-information/pre-professional-programs/pre-medical-pre-health-professions).

**Joint and Early Assurance Programs**

Canisius College maintains relationships with University at Buffalo School of Dental Medicine and LECOM School of Dental Medicine (Bradenton, FL) which allow highly qualified students to gain early acceptance into dental school. Students may be admitted into the program upon enrolling at Canisius as freshmen (3+4 program with University at Buffalo, 4+4 program with LECOM). Students may also apply to the University at Buffalo program (4+4) during their sophomore year or apply to the LECOM program during the freshman or sophomore year.

**Recommended Pre-Dental Courses**

Academic admission requirements vary by dental school, but usually include the following courses:

**English**

One year of English composition:

- **FYS 101** Explorations of Academic Writing and Special Topics 3
- **ENG 101** Writing about Literature 3

**Biology**

At least one year of general biology with laboratory:

- **BIO 111** Introductory Biology I 4
  & **111L** Introductory Biology Laboratory I 4
- **BIO 112** Introductory Biology II 4
  & **112L** Introductory Biology Laboratory II 4

**Chemistry**

One year of general chemistry and one year of organic chemistry with laboratories:

- **CHM 111** General Chemistry I 4
  & **111L** General Chemistry I Laboratory 4
- **CHM 112** General Chemistry II 4
  & **112L** General Chemistry II Laboratory 4
- **CHM 227** Organic Chemistry I 4
  & **227L** Organic Chemistry I Laboratory 4
- **CHM 228** Organic Chemistry II 4
  & **228L** Organic Chemistry II Laboratory 4

**Physics**

One year of introductory physics with laboratory:

Select one of the following:

<table>
<thead>
<tr>
<th>Option 1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHY 201</strong> College Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; <strong>201L</strong> College Physics I Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 202</strong> College Physics II</td>
<td></td>
</tr>
<tr>
<td>&amp; <strong>202L</strong> College Physics II Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option 2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHY 223</strong> General Physics for Physical Science Majors I</td>
<td></td>
</tr>
<tr>
<td>&amp; <strong>223L</strong> General Physics for Physical Science Majors I Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 224</strong> General Physics for Physical Science Majors II</td>
<td></td>
</tr>
<tr>
<td>&amp; <strong>224L</strong> General Physics for Physical Science Majors II Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Pre-Dental Courses**

Additional Pre-Dental courses may be needed depending on which schools students intend to apply to. Suggestions include:

**Mathematics**

Math requirements vary at the different dental schools. We recommend students take a minimum of either statistics (MAT 141 or PSY 201) or calculus (MAT 111). Chemistry majors must take MAT 141.

**Behavioral/Social Science**

One semester each of psychology (PSY 101 or PSY 102) and sociology (SOC 110). The behavioral science and humanities requirements vary at dental schools.

**Biochemistry**

Some dental schools require one semester of biochemistry. Students may take biochemistry in either the Biology Department (BIO 211-BIO 212 take both courses) or Chemistry Department (BCH 301-BCH 302 take one or both courses).

**Additional Biology**

Some dental schools have additional biology courses such as microbiology (BIO 307) or anatomy and physiology (BIO 114 and/or BIO 115) either required or recommended.