CORE ADVISOR’S PRE-HEALTH QUICK-LOOK GUIDE (2015)

GOOD TO REMEMBER:

Health professions graduate schools / professional schools are highly competitive

- Academic success is the single most important factor in a pre-health student’s path
- The first-year students are strongly encouraged to be aware and use all academic resources available to them

Student interested in health professions can major in any discipline

- Students will need substantial exposure to natural sciences
- Exposure to natural sciences can come through student’s major or minor, including natural sciences minor
- Help students to understand that the most important pre-requisite to health professions graduate schools is four-year undergraduate degree itself
- Student’s core, major, and minor requirements take precedence over professional school pre-requisites
- For instance: B.S. degree students take a 200-level math. A B.S. student takes 200-level math even if 100-level math would satisfy health profession pre-requisite.

Encourage students to explore ALL health professions

- The best resource for students: [www.explorehealthcareers.org](http://www.explorehealthcareers.org)

COURSE REGISTRATION DAY TIPS:

Check student’s math score and placement

- For instance: A student, who tests into MA 109 (pre-calc) and has not taken high-school chemistry, may not be aware of chemistry’s mathematical rigor. Help him/her to identify resources and balance courses.

Be aware of student’s AP and IB credits

- For instance: A pre-health student can use biology AP credit (>4) to substitute for their organismal biology course if they also earn >C in cell and molecular bio. However, a pre-med or pre-dental student should later plan to take at least one additional college-level biology course with lab.

Balance student’s course load

- A pre-health student interested in B.S. degree commonly takes BL 118 and CH 101 in their freshman fall. Many pre-health students are ready for this in their freshman year but not all.
- For instance: Chemistry requirement of many health professions, such as nursing and PT, is limited to general chemistry. The student may want to take his or her chemistry in sophomore year.

Be aware of timing challenges

- For instance: chemistry’s year-long sequences, study abroad, and graduate school application time lines.

QUESTIONS?

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For students, just Dr. Gardner
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Donnelly Science 122
I’ll be at most Day 1 registrations
I’ll be at Day 2 of all registrations
I’ll have a table at all Day 2 info fairs
<table>
<thead>
<tr>
<th>Profession</th>
<th>Pre-Requisite Courses</th>
<th>Target GPA</th>
<th>Experience</th>
<th>Standardized Test</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicine</td>
<td>2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 1-2 semesters of biochemistry 2 semesters of physics with lab (intro or general ok) Highly recommended: 1-2 semesters of mathematics, esp. calculus and/or (bio)statistics</td>
<td>&gt;3.6</td>
<td>Research, volunteering, shadowing</td>
<td>MCAT</td>
<td>Note: new MCAT (2015) sections: 1) Biological and biochemical foundations of living systems 2) Chemical and physical foundations of living systems 3) Psychological (65%), social (35%), biological foundations (5%) of behavior 4) Critical analysis and reasoning</td>
</tr>
<tr>
<td>Dentistry</td>
<td>2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab (intro or general ok) Common additional requirements: Biochemistry, microbiology, anatomy and physiology, 1-2 semesters of mathematics, esp. (bio)statistics</td>
<td>&gt;3.4 - 3.5</td>
<td>Research, volunteering, shadowing</td>
<td>DAT</td>
<td>Note: DAT sections 1) Biology 2) General Chemistry 3) Organic Chemistry 4) Perceptual ability 5) Quantitative reasoning</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>2 semester of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab (intro or general ok) 1 semester of biochemistry Common additional requirements: biochemistry, microbiology, 1-2 semesters mathematics, incl. esp. calculus and/or (bio)statistics, upper level biology courses</td>
<td>&gt;3.5</td>
<td>Research, shadowing, work with animals</td>
<td>GRE</td>
<td>Also MCAT possible</td>
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<tr>
<td>Physical Therapy</td>
<td>2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab (intro or general ok) 1 semester of biochemistry Common additional requirements: biochemistry, microbiology, 1-2 semesters mathematics, incl. esp. calculus and/or (bio)statistics, upper level biology courses</td>
<td>&gt;3.5</td>
<td>&gt;150 hours shadowing &amp; work with PT</td>
<td>GRE</td>
<td></td>
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<tr>
<td>Nursing</td>
<td>2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of human anatomy and physiology with lab 1 semester of microbiology 1 semester of human nutrition 1 semester of psychology across life span 1 Semester of statistics (100 or 200 level)</td>
<td>&gt;3 - 3.3</td>
<td>&gt;substantial exposure to the profession</td>
<td>TEAS</td>
<td>GRE (most competitive programs)</td>
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<tr>
<td>Accelerated Bachelor's degree</td>
<td>Direct entry Master's degree After M.S.N. doctoral degree possible</td>
<td>&gt;3 - 3.3</td>
<td>&gt;substantial exposure to the profession</td>
<td>TEAS</td>
<td>GRE (most competitive programs)</td>
</tr>
<tr>
<td>Physician Assistant</td>
<td>2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of anatomy and physiology with lab 1 semester of microbiology 1 semester of psychology 1 semester of statistics (100 or 200 level)</td>
<td>&gt;3.0 -3.3</td>
<td>250 - 2000 hours of work-like experience</td>
<td>GRE</td>
<td>Also MCAT sometimes possible</td>
</tr>
<tr>
<td>Public Health (Master's entry)</td>
<td>Note: Direct entry doctorate very rare</td>
<td>&gt;3.0 -3.3</td>
<td>Research, volunteering Social sciences and education interest</td>
<td>GRE</td>
<td></td>
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