Faculty Guide: First Two Years for Students Interested in Healthcare

One or more of your advisees may be considering a career in healthcare, such as in medicine, physical therapy, dentistry, physician assistant, veterinary medicine, athletic training, or pharmacy. This guide is designed to facilitate advising of such students on important steps they need to be taking, especially early on in their education at Cornell.

Many of the professional schools students may be interested in pursuing have steep and broad pre-requisites, particularly in chemistry and biology – and many of these courses are specific and highly-sequenced in nature. Further, if a student wishes to enter professional school immediately following Cornell, their application will be due the summer after their junior year; the student must have in effect completed these pre-requisites by this time as well. We note, however, that many of our students take one or two 'gap' years between college and professional school in order to have greater flexibility in courses during undergrad, as well as an opportunity to gain work or service experience prior to further schooling.

Additionally, there are expectations of significant service and health-related experiences outside of the classroom that students will need to participate in regularly. Much of this will take the form of research, internships, job shadowing, and volunteering. It is our hope that by priming students early with a carefully chosen first two academic years, they will become acquainted with the academic disciplines relevant to healthcare, maximize their chances to be successful applicants, and enable flexibility and broader education opportunities during their junior and senior years. We outline some recommendations below.

Coursework – 1st and 2nd Year

The following table details required, strongly recommended, and recommended coursework for the first two years for both pre-medicine and pre-physical therapy. While there are numerous healthcare career paths that a student can take, these offer our two most highly enrolled examples. Numbers listed in brackets indicate blocks that the course will be offered for the coming 2023-2024 school year.

Year in	Pre-Medicine Student	Pre-Physical Therapy (PT) Student
School		
First Year	BIO 141 (Foundati BIO 142 (Foundati CHE 121 (Chemica CHE 122 (Chemica <u>Recommended</u>	ious Topics) [2, 3, 5-7] ions: Cellular Biology) [3, 4, 7, 8] ions: Organismal Biology) [3-5, 7] il Principles I) [2, 3, 5, 6] il Principles II) [4, 6, 8]
Second Year	-or-	entals of Psychological Science) [2, 3, 5, 6, 8] (ical Thinking) [2, 4, 5, 7] Strongly Recommended Any course above not taken KIN 207/BIO 207 (Human Systems Physiology & Anatomy I) [1, 2, 5] STA 201 (Statistical Methods I) [2-8] <u>Recommended</u> KIN 208 (Human Systems Physiology & Anatomy II) [3, 6] PHY 141 (Introductory Physics I) [4] PHY 142 (Introductory Physics II) [8]

Note also that while many of these courses may be taken at any time during the year, some are sensitive to prerequisites (e.g. BIO 205 requires CHE 225). Outside of these recommended courses, there is no implied preference toward additional science coursework; in fact, students are encouraged to take coursework of interest to them, preferably *not* in the natural sciences.

Exploring Healthcare

Strong applicants for health professions need more than just high GPAs, strong exam scores, and outstanding letters of recommendation. They also must have cultivated experiences which clearly demonstrate to admissions committees that they understand what it is like to be a practicing member of that profession. To achieve this, students should be sure that each winter, spring, and summer break is carefully planned to help them learn about their strengths and interests, experience specific clinical settings (shadow/volunteer/work), broaden their intercultural literacy, and/or participate in research or internships. In particular, students would be wise to consider a research position or internship after their first year; in order to do so, they should be encouraged to explore these possibilities through conversations with individual faculty, Dimensions, and the Berry Career Institute, during the fall semester.

Contact Us

If you have any questions regarding advisement of your students, please do not hesitate to contact the Dimensions office: either Associate Professor Jai Shanata, Faculty Advisor of Dimensions at <u>ishanata@cornellcollege.edu</u> (x4842); or Mark Kendall, Associate Director of Dimensions at <u>mkendall@cornellcollege.edu</u> (x4136). For questions related to pre-physical therapy, you may contact Associate Professor Kristi Meyer at <u>kmeyer@cornellcollege.edu</u> (x4591).

As a final note: if any of your students with an expressed interest in healthcare have not made contact with <u>Dimensions</u>, please encourage them to do so!