PRE-DENTISTRY

Competency Development: The Guiding Principle

Dental schools are looking for well-rounded individuals who can demonstrate professional competencies!

Many of the experiences listed below will give you opportunities for growth in the areas discussed on the ADEA website:

Statement on Professionalism: https://www.adea.org/Pages/Professionalism.aspx

Is Dentistry Right for You? (competencies & traits): https://www.adea.org/GoDental/Dentistry 101/Is dentistry right for you .aspx

AAMC statement may be useful: https://www.aamc.org/services/admissions-lifecycle/competencies-entering-medical-students

High-Value Experiences

Your pre-health advisor will be happy to discuss service & leadership opportunities that would connect well with your particular passions and values!

1. Get involved

- a. Involvement in on-campus Recognized Student Organizations (RSOs) or work as a teaching assistant, a lab / learning assistant, or a supplemental instructor can provide you with *leadership and communication* experience that dental schools are looking for.
- b. Developing quality relationships with off-campus, non-profit organizations and the people they serve will give you invaluable **community service** experience. Dental schools are looking for people with a service orientation, so it is much better to establish longer, qualitative service relationships with a few non-profits than to focus merely on one-off service events or fundraisers with multiple organizations.

2. Understand what this career entails

- a. **Shadowing** is a crucial component in your discernment process regarding whether you should pursue this career. Dental schools want to see that you have demonstrated sustained interest in this career and that you know what you are getting into. Shadow several dentists in multiple areas of dentistry. Talk to your pre-health advisor for more info!
- b. **Experience in dentistry and/or health care**: Dental schools expect that their applicants have exposure to the health care field. You may find it useful to gain experience as a volunteer or employee at a dental facility.
- c. Dentists need to stay up-to-date about issues related to dentistry and health care in the US and the world, including the way the media is discussing their profession. They also need to know what is going on in the world in general. Although predental students are not expected to have all the answers, you can begin to read and stay informed in the field in order to maintain essential knowledge as you move forward in your journey.
- 3. **Develop your manual dexterity**. In order to perform dental procedures, a dentist must be able to work with precision on an extremely small scale. Superior hand-eye coordination is critical to ensuring the safety of patients. Examples of ways to develop in this area are found here:

 https://www.adea.org/GoDental/Application_Prep/Preparing_for_Dental_School/The_Importance_of_Manual_Dexterity.aspx
- 4. **Conduct research.** Research is not a requirement for admission to dental school, but it may add an extra layer to your application if the institutions you are applying to have a research focus, or if you are particularly interested in research. See the "High-Value Opportunities" page on our website (http://www.uwyo.edu/preprof/pre-health-preparation/opportunities.html) and talk to a pre-health advisor to discover possible research opportunities.
- 5. **Establish a strong academic record.** Most individuals who are accepted to dental school have a GPA above 3.5. Dental schools also place high value on applicants' math and science grades, so pay attention to this during your time here at UW. Talk to a prehealth advisor about how to keep track of your various GPAs. Typical prerequisite courses for dental school and DAT prep are listed on the next page.
- 6. **Develop relationships with professionals.** Dentists, faculty, and work/volunteer supervisors can help you open doors to exciting new experiences, but they will also hopefully get to know you well enough to speak to your competencies in letters of evaluation for your dental school application.

Meet Early and Often with a Pre-Health Advisor!

Pre-Health Advising Office hsadvise@uwyo.edu 307-766-3878 Health Sciences Room 110

To schedule an appointment: http://www.uwyo.edu/preprof/schedule-an-appointment/index.html

Stay Informed! Sign up to join our Pre-Professional Health ListServ, so you can stay informed about various opportunities, workshops, and information that our office sends out! https://lists.uwyo.edu/mailman/listinfo/pre-prof

USEFUL TIP: Create an e-mail inbox rule to send our ListServ messages into a "pre-health" folder to read at regular intervals.

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Academic Preparation

WHICH MAJOR SHOULD I CHOOSE?

You can major in ANYTHING! Dental schools do not care what you major in as long as you take their prerequisite courses. Most dental schools require completion of a bachelor's degree before matriculation into their school.

WHAT COURSES ARE TYPICALLY REQUIRED or RECOMMENDED?

Note: Specific dental schools may or may not require all of these courses before application or matriculation. Schools may also require additional courses as entry requirements. *You are responsible for making sure that you are on track to fulfill any specific school's requirements prior to application.* Talk to a pre-health advisor about things to keep in mind for school selection.

DAT section: Quantitative Reasonina

- MATH 1405 (Trigonometry) is required, and MATH 2200 (Calculus I) is recommended (and required by some UW departments).
- A statistics course (STAT 2050 OR STAT 2070) is also strongly recommended (and required by many UW departments).
- Additional recommendations: Any other course that requires problem-solving skills.

DAT section: Survey of Natural Sciences

- At least 2.5 years (5 semesters) of chemistry
 - Inorganic chemistry: CHEM 1020 & CHEM 1030 (or CHEM 1050 & CHEM 1060)
 - o Organic chemistry: CHEM 2420 & CHEM 2440
 - Biochemistry / Biological Chemistry: MOLB 3610 OR CHEM 4400
 - Molecular biology majors will also take MOLB 4600.
 - Taking MOLB 4100 (Clinical Biochemistry) could be useful before the DAT/dental school, if you have time (not required).
- Biological Science courses
 - LIFE 1010
 - o MICR 2021 (better for DAT prep) or LIFE 2022
 - KIN 2040 & 2041 (Human Anatomy)
 - o **ZOO 3115** (Human Systems Physiology)
 - o LIFE 3050 (Genetics)
 - LIFE 3600 (Cell biology)

UW Course Prerequisites: To understand the prerequisites for any UW courses listed on this page, consult <u>the University Catalog</u>. You can find prerequisites either by clicking on a specific course on your "Degree Programs" page or using the search box on the "Course Offerings" page.

Dental schools require on-campus, lab-based courses for all science courses listed here (except MOLB 3610 / CHEM 4400, which most dental schools allow to be taken

online). Dental schools DO NOT usually accept AP credit for these sciences!

LAB REQUIREMENT (Chemistry/Biology/Physics)

- One full year of physics PHYS 1110 & PHYS 1120 (or PHYS 1210 & 1220 or PHYS 1310 & 1320)
 - o NOTE: Fall-Spring sequence or intensive Summer sequence suggested at UW, since Spring-Fall sequence is online only!

DAT section: Reading Comprehension

- High-level reading: Regularly read a variety of challenging material (beyond the material required in your courses).
- Any other course that requires extensive and challenging reading.

DAT section: Perceptual Ability

Comprised of six subtests: apertures, view recognition, angle discrimination, paper folding, cube counting, & 3D form development

ADDITIONAL COURSEWORK TO PREPARE WELL FOR DENTAL SCHOOL

Since some dental schools require a psychology course (**PSYC 1000**), it would be good to take it. According to many dental schools, students who take coursework in the following areas (though usually not required) tend to do better in the rigorous coursework they encounter at dental school.

A course on *histology* (such as ZOO 3010) *Immunology* (MOLB 4400) Any of the 4000-level **biochemistry courses** listed above

American Dental Association www.ada.org

https://www.ada.org/en/education-careers/careers-in-dentistry/be-a-dentist

Growth Mindset: Taking additional challenging courses that interest you will reinforce your knowledge. Selecting a course based on how "easy" it is will not result in the intellectual growth needed to do well on the DAT or to become a dentist.

Questions about funding dental school?

Step # 1: Master the content in the required courses listed here!

Find more information at our website:

How do I prepare for the DAT?

Talk to a pre-health advisor for other ideas!

http://www.uwyo.edu/preprof/funding-your-education/ Wyoming Resident? Check out WICHE & WYDENT at this site! http://www.uwyo.edu/certwy

<u>American Dental Education Association</u> <u>www.adea.org</u>

Preparing for dental school: https://www.adea.org/GoDental/Application Prep/Preparing for Dental School.aspx Application service: https://www.adea.org/GoDental/The application to dental school ADEA AADSAS.aspx School information: https://www.adea.org/officialguide/

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