

# Pre-Dentistry Program

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**Wright State University** provides students with the necessary course requirements for admission to any dental school in the United States. In addition, all required courses are offered two to three times a year to accommodate students' schedules. Students interested in dentistry must also take a Dental Admissions Test (DAT) in the spring of the year prior to admission. This is a computerized test and can be scheduled anytime.

In addition, students are required to gain observation hours in a general practice dentist office. A pre-professional advisor is available to students and will assist them in creating a master plan, building a competitive application, gaining current information on DAT testing and AADSAS application processing, and preparation for letters of recommendations.

While most students wishing to enter a health sciences career pursue a degree in Biological Sciences, professional schools encourage diversity. Students can major in any discipline and include the required pre-professional courses within their program of study. An advisor is available to assist students in developing a program of study. Students are highly encouraged to attend the pre-health application workshops offered during spring quarter and to participate in the Pre-Dentistry or Pre-Med student organizations.

## A Career in Dentistry

The opportunities and responsibilities that exist for dentists in this time of change in health care delivery make dentistry one of the most exciting, challenging and rewarding professions. It is projected that careers in dentistry will increase significantly over the next 10 years. There are many reasons for pursuing dentistry as a career, including control of time, service to others, self-employment opportunities, income potential, and the art of working with your hands.

Currently, 90% of dental school graduates are in private practice (solo or groups), 80% are generalists (average income \$177,340) and 20% are specialists (average income \$300,200). Dentistry also offers a variety of careers in academics and oral health research, such as genomics and proteomics, oral-systemic connections, salivary diagnostics, and laser technology and computer generated restorations.

To become a dentist, one must obtain either a Doctor of Dental Surgery (D.D.S) or Doctor of Dental Medicine (D.M.D.) to be certified to practice. There are currently 56 dental schools in the United States that grant the D.D.S. or D.M.D. and two of them are in the state of Ohio:

## **The Ohio State University** (Columbus, OH)

- 3<sup>rd</sup> largest public dental school in the U.S.
- consists of 8 academic units representing all major dental specialties
- class size is 104 students; ~75% are from Ohio
- 4-year program of study leading to a D.D.S.
- [www.dent.osu.edu/admissions](http://www.dent.osu.edu/admissions)

## **Case Western** (Cleveland, OH)

- dental profession evolving into something closer to a physician specializing in oral health
- class size is 70 students
- 4-yr program of study leading to a D.M.D.
- <http://dental.case.edu>

### Required Pre-Requisites

#### THE OHIO STATE UNIVERSITY

<b>General Biology:</b>	<b>BIO 111, 112, 115</b>
<b>Microbiology:</b>	<b>M&amp;I 220</b>
<b>Human Anatomy:</b>	<b>ANT 310, 311</b>
<b>General Chemistry:</b>	<b>CHM 121/125, 122/126, 123/127</b>
<b>Biochemistry:</b>	<b>BMB 421, BMB 423</b>
<b>Organic Chemistry:</b>	<b>CHM 211/215, 212/216</b>
<b>General Physics:</b>	<b>PHY 111/101</b>
<b>English:</b>	<b>ENG 101, 102</b>

#### CASE WESTERN

<b>Chemistry:</b>	<b>CHM 121/125, 122/126, 211/215, 212/216</b>
<b>General Biology:</b>	<b>BIO 111, 112, 115</b>
<b>General Physics:</b>	<b>PHY 111/101, 112/102</b>
<b>English:</b>	<b>ENG 101, 102, 204</b>

OSU is a public, state-supported institution and has lower tuition (\$24,663/yr), while Case Western is private and, consequently has a significantly higher tuition (\$45,265/yr). OSU gives priority to Ohio residents, while Case Western does not. The information on the back of this sheet lists the requirements for admission in more detail and the acceptance rates for applicants for these two Ohio schools.

## Ohio Dental Programs

**OSU:** An applicant must complete a minimum of 90 quarter hours or 60 semester hours including prerequisite courses at an accredited four-year college or university. **Two-thirds of the prerequisite courses must be complete at the time the AADSAS application is submitted (9/13 semester courses or 10/14 quarter courses). Prerequisite science courses may not be completed on-line or via distance learning. Prerequisite courses may not be audited.**

### ADDITIONAL RECOMMENDED COURSES

Cell Biology (BIO 212)  
 Genetics (BIO 211 or BIO 302)  
 Biochemistry II (BMB 423)  
 Vertebrate Histology (BIO 443)  
 Immunology (M&I 426)  
 Basic Accounting  
 3-D Art or Engineering Graphics  
 Humanities & Social Sciences

### What is the DAT?

All U.S. dental schools require applicants to take the Dental Admission Test (DAT). The DAT is designed to measure general academic ability, comprehension of scientific information, and perceptual ability. This half-day, multiple choice exam is administered on the computer around the country on almost any day of the year. Candidates for the DAT should have completed pre-requisite courses in biology, general chemistry and organic chemistry. The American Dental Education Association (ADEA) strongly encourages students to prepare for the DAT by reviewing the content of the examination, reviewing basic principles of biology and chemistry, and taking practice exams. The exam consists of four separate parts:

- **Natural Sciences** (biology, general chemistry, and organic chemistry)
- **Perceptual Ability** (2- and 3-dimensional problem-solving)
- **Reading Comprehension** (dental and basic sciences)
- **Quantitative Reasoning** (mathematical problem sin algebra, numerical calculations, conversions, etc.)

### The OSU & Case Western School Enrollment Statistics (2007)

Dental School	Total Matriculants	Total Applicants	Matriculants: Average Overall GPA	Matriculants: Average Science GPA	Matriculants: Average DAT(Academic Ability)	Matriculants: Average DAT (Perceptual Ability)
OSU	104 (75 OH residents)	1179 (22% OH residents)	3.60 (3.09-3.97)	3.55 (2.85-4.00)	19.00	19.00
Case Western	70	3393	3.54 (3.16-3.93)	3.42 (3.10-3.93)	19.00	19.00



### College of Science & Mathematics

For additional information please visit our website: [www.wright.edu/cosm/premed](http://www.wright.edu/cosm/premed)  
 or contact the advisor: **Jacqueline Neal** at 937-775-4226