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University of Dayton
Premedical Programs

UNIVERSITY OF DAYTON PRE-HEALTH RESOURCE CENTER

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PREMEDICAL PROGRAMS

Who we are
WHAT WE DO

Premedical Programs is home to the Premedicine and Pre-dentistry majors. Our students meet regularly with specialized academic advisors and participate in a variety of healthcare related services and programs.

UNDERSTANDING THE MAJOR

The Bachelor of Science in Premedicine (MED) or Pre-dentistry (DEN) is an interdisciplinary curriculum of study, distinctively designed to provide a biomedical science-based education as a preparation for admission to health professional schools including medical, dental, physician assistant, veterinary, and chiropractic. Courses in biology, chemistry, mathematics, and physics comprise the science core of the major. A complement of humanities and social sciences courses are also required. The curriculum is flexible and can be tailored to suit personal interests and career aspirations. Students can easily add a minor as well as general electives to the MED or DEN major to expand the focus of their undergraduate education.

SERVICES AND PROGRAMS

The Pre-Health Resource Center (PHRC) provides support to students in preparation for health professional school. Services include:

- Clinical volunteering and shadowing opportunities,
- Professional development courses,
- Application workshops,
- Speakers, DAT/MCAT prep, and more.

From beginning to end, faculty assists students in planning their individual journey toward successful matriculation to medical, dental, PA or other health professional school. This includes planning clinical and service activities and preparing for the application process, obtaining letters of evaluation, practice interviewing and meeting with health professional school representatives during their campus visits. The Pre-Health Resource Center is here to support each student's journey beginning day one of the first year and ending with a handshake on the graduation stage.



➔ ANNUAL GRANTS AND SCHOLARSHIPS

The **Dr. Stephen E. and June H. Szabo** grants provide students with financial support for service or research experiences during the summer break. Applications are available through the Pre-Health Resource Center.

Everhard, Szabo and **Michaelis Scholarships** are available to students who have completed their sophomore year. Students apply for these scholarships and the funds are applied to their student account the following year. Students with respectable GPA's are generally successful in securing a scholarship.

PREMEDICAL PROGRAMS ADVISING

In addition to the director and associate director of Premedical Programs, there are 22 full time faculty members who are "premed advisors." All MED/DEN majors are assigned to a premed advisor. These advisors provide academic and career related advising. Additional career preparation activities are provided by the Pre-Health Resource Center.

Premed advisors help students navigate the university and major requirements necessary to complete the degree and provide information about university policies and procedures, and resources. They help students develop their semester schedule to satisfy degree requirements and meet prerequisites for health professional schools. For students applying to medical school, dental school, or other graduate programs that require letters of recommendation, the advisor is responsible for writing a composite letter that is sent as part of the application. Both the premed advisor and the Pre-Health Resource Center staff are valuable resources for information about careers in healthcare.

PREMEDICAL PROGRAMS ADVISORS

Elizabeth Rhoads, Director, Laurel Monnig, Associate Director, Mohamed Ahoujja (Physics), Justin Biffinger (Chemistry), Loan Bui (Biology), Madeleine DeBeer (Chemistry), Garry Crosson (Chemistry), Karolyn Hansen (Biology), Madhuri Kango-Singh (Biology), Carissa Krane (Biology), Matthew Lopper (Chemistry), Angela Mammana (Chemistry), Mark Nielsen (Biology), Margie Pinnell (Engineering), Pothitos Pitychoutis (Biology), Constance Pope (Biology), Lis Regula (Biology), Aaron Sathyanesan (Biology), Julie Simon (Mathematics), Amit Singh (Biology), Todd Smith (Physics), Yvonne Sun (Biology), Katerina Tsouma (Biology), Thomas Williams (Biology), Shirley Wright (Biology).

FIRST YEAR

FIRST TERM

DEPT.	NO.	TITLE	CR
BIO	151	Concepts of Biology	3
BIO	151L	Concepts of Biology Lab	1
CHM	123	General Chemistry	3
CHM	123L	General Chemistry Lab	1
MTH	148	Introductory Calculus	3
		Humanities Commons	3
		ENG 100 or 198	
ASI	150	First Year Seminar	1

TOTALS

15

1

SECOND TERM

DEPT.	NO.	TITLE	CR
BIO	152	Concepts of Biology	3
BIO	152L	Concepts of Biology Lab	1
CHM	124	General Chemistry	3
CHM	124L	General Chemistry Lab	1
MTH	149	Introductory Calculus	3
		Humanities Commons	6
		REL 103, PHL 103	

TOTALS

17

SECOND YEAR

FIRST TERM

DEPT.	NO.	TITLE	CR
CHM	313	Organic Chemistry	3
CHM	313L	Organic Chemistry Lab	1
PHY	201	General Physics	3
PHY	201L	General Physics Lab	1
ENG	200	Writing Seminar II	3
HST	103	Humanities Commons	3
MTH	207	Statistics	3

TOTALS

17

2

SECOND TERM

DEPT.	NO.	TITLE	CR
CHM	314	Organic Chemistry	3
CHM	314L	Organic Chemistry Lab	1
PHY	202	General Physics	3
PHY	202L	General Physics Lab	1
CMM	100	Oral Communication	3
MED	299	Sophomore Seminar	1
SSC	200	CAP Integrated Social Science	3

TOTALS

15

THIRD YEAR

FIRST TERM

DEPT.	NO.	TITLE	CR
---	---	Social Science	3
CHM	420	Biochemistry	3
CHM	420L	Biochemistry Lab	1
---	---	Science Elective 1	3
---	---	English Elective	3
---	---	Inquiry/Social Science	3
---	---	Clinical Experience	1

TOTALS

17

3

SECOND TERM

DEPT.	NO.	TITLE	CR
---	---	Science Elective 2	3
---	---	Science Elective 3	3
---	---	Arts	3
---	---	Practical Ethical Action	3
MED	480	Capstone	1

TOTALS

13

FOURTH YEAR

FIRST TERM

DEPT.	NO.	TITLE	CR
---	---	Science Elective 4	3
---	---	Science Elective Lab	1
---	---	Diversity/Social Science	3
---	---	Adv PHL or REL	3
---	---	Adv Historical Studies	3
---	---	General Elective	1

TOTALS

14

4

SECOND TERM

DEPT.	NO.	TITLE	CR
---	---	Science Elective 5	3
---	---	Science Elective Lab	1
---	---	Faith Traditions	3
---	---	Integrative	3
---	---	General Elective	3

TOTALS

13

TOTAL = 120



ADDITIONAL CLINICAL OPPORTUNITIES:

- **Miami Valley Hospital Job Shadowing**– Students have the opportunity to shadow healthcare professionals in departments such as Endoscopy, Interventional Radiology, Emergency Medicine and Heart and Vascular Procedures at Miami Valley Hospital.
- **PA Shadowing** – Pre-Health Resource Center coordinates shadowing opportunities at Premier Health locations and other area providers.
- **Veterinarian Shadowing** – Shadowing opportunities are coordinated with animal hospitals in the Dayton area.
- **Medical Scribe Training** – A one credit course trains students in medical scribing and offers the opportunity to work as a medical scribe in the Dayton area.

UD RESEARCH LABS



Many students volunteer in natural science faculty labs and participate in faculty mentored research while attending UD. Students are encouraged to visit with science faculty to learn about their research programs. Departmental websites also provide descriptions of faculty research. Our faculty have been recently awarded research funding from the following sponsors, among others: American Heart Association, National Institutes of Health, National Science Foundation, Naval Research Laboratory, Department of Defense, NASA, US Air Force, US Army.

STUDENT ORGANIZATIONS RELEVANT TO MEDICINE, DENTISTRY AND HEALTH:

- **Alpha Epsilon Delta (AED)** – national pre-professional health honor society. AED provides a diverse array of speakers, community and campus service and health professional shadowing opportunities.
- **Healing Hearts** – students are assigned a volunteer experience at a local hospital.
- **Dental Interest Group (DIG)** – pre-professional group for students interested in dentistry.
- **American Red Cross Club** – a student-led chapter of the American Red Cross.
- University of Dayton Emergency Medical Services (UD EMS) – state certified ambulance squad serving the UD community with emergency medical services.
- **Active Minds** – a student group that advocates for mental health awareness at UD.
- **Multicultural Association of Pre-Medical Students (MAPS)** – MAPS' mission is to increase the number of underrepresented minority students going to medical school and increase the number of clinically excellent, culturally competent, and socially conscious physicians.
- **Pre-PA Club** – an interest group for students interested in pursuing a career as a Physician Assistant.
- **Pre-Chiropractic Club** – an interest group for students interested in chiropractic medicine.
- **Pre-Pharmacy Club** – an interest group for students interested in pharmacy.
- **Pre-Veterinary Club** – an interest group for students interested in veterinary medicine.



MEDICAL SCHOOL ACCEPTANCES

	MED	BIO	CME*	HSS*	BCM*	OTHER	TOTAL
2023 Applied	31	14		3	3		51
2023 Accepted	23	14		3	2		42 (82%)
2019-2023 Applied	139	63	4	16	13	4	239
2019-2023 Accepted	105	45	3	13	10	2	178 (75%)



DENTAL SCHOOL ACCEPTANCES

MAJOR	DEN	BIO	OTHER	TOTAL
2023 Applied	6	1	2	9
2023 Accepted	5	1	2	9 (100%)
2019-2023 Applied	38	8	5	51
2019-2023 Accepted	28	6	3	37 (73%)

For more information about Premedical Programs email premed@udayton.edu, or visit the Pre-Health Resource Center in 375 Science Center.



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*CME = Chemical Engineering | HSS = Integrative Physiology Concentration | BCM = Biochemistry