



WRIGHT STATE UNIVERSITY

Path to Health Professions

Is helping others in your future?

February 20, 2023

9 a.m.–noon

STUDENT UNION

Make your future your priority.
Participate in this year's exciting presentations
and take steps toward a brighter future!

Welcome!

Thank you for attending our **18th annual Presidents' Day Path to Health Professions Day**. We are happy to have you as guests of Wright State University and look forward to sharing information about healthcare careers, our RAIDER campus, and the many opportunities available to our students.

We invite you to spend a few minutes reviewing the session descriptions and choosing which sessions might pertain to your interest. There are numerous careers in the health professions, some of which you may be less familiar with. We have expanded our event to include additional careers in healthcare which you may not have considered before. Step outside of your comfort zone and explore your options.

Can't decide on which one to attend? Our program allows flexibility to select which presentations you would like to attend, together as a group or individually. If you find there are two sessions you would like to attend, and you came with a friend or family member, divide and conquer. Attend different sessions and come back and chat with each other about what you learned.

Career Information Sessions: Discover the preparation and skills needed to become a healthcare practitioner from current professionals and/or faculty in the various health careers. Gain insight into their profession's day-to-day duties and responsibilities, the work environment, training requirements, advancement prospects, and more.

Tours: We hope to accommodate as many students on tours as would like to go. If you are interested in participating, please join the tour guides in the assigned locations (see agenda and session overview for more details)

Question & Answer Sessions: Connect with Wright State's incredible team of student support specialists, helping to answer any question you have about the university, admissions, financial aid, housing, and much more.

Registration bag: Our gift to you. Make it your goal today to gather as much information as possible about the professions that interest you or would like to learn more about. Do not forget to pick up information on becoming a future **RAIDER**, too!

If you leave today knowing more about the health professions than when you arrived, we have successfully accomplished our mission!

Enjoy the day – **RAIDER UP!**

Rob Cowles
Pre-Professional Program Coordinator
College of Science & Mathematics
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Program Agenda & Room Locations

Time	Presentation	Room Location
Session I		
9:00–9:30 a.m. <i>Event Overview</i>	Welcome and Event Overview	Apollo
Session II		
9:35–10:05 a.m. <i>Career Information</i>	Admissions, Financial Aid, Housing	Atlantis
	Chiropractic Medicine	Endeavour A
	Clinical Mental Health Counseling	Endeavour B
	Optometry	Endeavour C
	Physician Assistant	Discovery A
	Sports Science / Sports Medicine	Discovery B
Session III		
10:10–10:40 a.m. <i>Career Information</i>	Admissions, Financial Aid, Housing	Atlantis
	Biomedical Engineering	Endeavour A
	Nursing / Nurse Practitioner	Endeavour B
	Osteopathic Medicine (D.O.)	Endeavour C
	Professional Psychology / Psychiatry	Discovery A
	Pharmacy	Discovery B
Session IV		
10:45 a.m.–11:15 p.m. <i>Career Information</i>	Allopathic Medicine; Boonshoft School of Medicine	Atlantis
	Medical Laboratory Science	Endeavour A
	Public Health	Endeavour B
	Rehabilitation Services / Integrated Human Services	Endeavour C
	Social Work	Discovery A
	Veterinarian Medicine	Discovery B
Session V		
11:20 – 12:05 p.m. <i>Health Professional Students Q&A</i>	Health Professional Student Q&A	Apollo
Session VI		
12:15 p.m. <i>Tours; Q&A Sessions</i>	Admissions, Financial Aid, Housing Q&A	Atlantis
	Anatomy Lab Tour	Endeavour A
	Campus Tour	Endeavour B
	Nursing Tours	Apollo
	Pre-Professional Health Program Q&A	Endeavour C

*The agenda is subject to change without notice.

Session Descriptions

Session I:

9:00–9:30 a.m.

Welcome and Event Overview: Wright State University and the Pre-Professional Health Program welcome you to campus and will provide a brief overview of what it means to be a pre-health student and how to access the individual event sessions. *Presenter(s): Rob Cowles, Pre-Professional Health Programs Coordinator, Wright State University [Apollo]*

College of Health, Education, and Human Services (CHEH): In 2021, Wright State opened the College of Health, Education, and Human (CHEH), aiming to prepare and sustain exemplary practitioners and administrators for work in the interrelated fields of education, health, and human services. There are many opportunities for students to gain valuable experiences through internships, practicum opportunities, and research. Through these experiences, CHEH seeks to promote and enhance the education, well-being, and safety of people and their communities. *Presenter(s): Jim Denniston, Ph.D., Founding Dean, CHEH, Wright State University. [Apollo]*

Session II:

9:35–10:05 a.m.

Admissions, Financial Aid, Housing Overview: Questions on becoming a RAIDER? Learn about what it takes to be admitted, the steps on receiving financial aid, and the different types of housing available on campus. *Presenter(s): Sarah Shepherd, Director of Recruitment; Ryan Winget, Asst. Director, Resident Information Systems; Maribeth Yoder, Enrollment Services Advisor—Raider Connect. [Atlantis]*

Chiropractic Medicine: Chiropractic is a branch of the healing arts based on the premise that good health depends, in part, upon a normally functioning nervous system. The primary procedure in chiropractic health care is, by using natural methods, to examine and evaluate the spine and pelvis to determine if one or many areas of the spine are malfunctioning or causing abnormal body movements. Attend this session to learn of the many different areas where chiropractors can work. *Presenter(s): Dr. Jacob Thomas, Chiropractor, Rocking Horse Center, Springfield, OH. [Endeavour A]*

Clinical Mental Health Counseling: Clinical mental health counselors provide mental, emotional, and behavioral support to individuals, couples, families, or groups who are dealing with difficult circumstances in their lives – depression, relationship issues, loss of a loved one, workplace stress, trauma, etc. These individuals help people improve their well-being, alleviate distress, resolve crises, and increase their ability to improve the quality and ability to function better in their lives. *Presenter(s): Huma Bashir, Ph.D., Associate Professor and Chair, Human Services; Interim Chair, Social Work, Wright State University. [Endeavour B]*

Optometry: As primary health care professionals for the eyes, optometrists examine, diagnose, treat, and manage diseases, injuries, and disorders of the visual system, the eye, and associated structures and identify related systemic conditions affecting the eye. Optometry ranks as one of the best professions because of its regular hours, few emergency calls, and collaboration with other healthcare professionals. *Presenter(s): Dr. David Stewart, Optometrist, Zeser & Stewart Eyecare, Beavercreek, OH. [Endeavour C]*

Physician Assistant: As the nation faces a shortage of general practitioners, physician assistants (P.A.) are gaining more responsibilities. According to the Bureau of Labor Statistics, a career as a physician assistant is ranked No. 4 in projected employment growth and job satisfaction. Join this session to learn more about how this profession has transitioned over the years, the education required to enter a P.A. program, and the diverse opportunities in this career. *Presenter(s): Julia Circle, Director of Didactic Education/Faculty, University of Dayton. [Discovery A]*

Sports Science: Sports science studies the body's response to exercise and physical activity, advancing your understanding of how exercise contributes to overall health and well-being, and advocating physical activity to prevent and treat chronic diseases such as cancer and heart disease. Two concentrations are available for Wright State students. Health and Fitness prepares you to work in the health and fitness industry, and students often apply for the ACSM Health and Fitness Instructor certification, the NSCA Certified Strength and Conditioning Specialist (CSCS) certification, or other similar professional certifications. The Sports Medicine Concentration prepares students for advanced allied health degrees, such as athletic training, physical therapy, occupational therapy, and physician assistant. *Presenter(s):* *Becky Bower, A.T., A.T.C., Director of Athletic Training Program, Wright State University; Andrew Froehle, Ph.D., Associate Professor, Department of Kinesiology and Health Sports Science Program, Co-Director of Sports Science Program; Orthopedic Residency Program Research Director, Wright State University* **[Discovery B]**

Session III:

10:10–10:40 a.m.

Admissions, Financial Aid, Housing Overview: Questions on becoming a RAIDER? Learn about what it takes to be admitted, the steps on receiving financial aid, and the different types of housing available on campus. *Presenter(s):* *Sarah Shepherd, Director of Recruitment; Ryan Winget, Asst. Director, Resident Information Systems; Maribeth Yoder, Enrollment Services Advisor— Raider Connect.* **[Atlantis]**

Biomedical Engineering: Biomedical engineers focus on applying engineering knowledge and techniques to solve biological and medical problems. They design and build new devices (e.g., pacemakers, artificial skin and organs, automated insulin injectors), instruments, and techniques to treat people suffering from injuries or diseases. They also design and adapt software for medical uses, such as laser systems for eye surgery or computer-based systems for diagnosing diseases. Biomedical engineers work with a multidisciplinary team of health care practitioners and are a vital link between advancing technology and healthcare treatment. *Presenter(s):* *Dr. Tarun Goswami, Professor, Biomed Industrial and Human Factors Eng.; Associate Professor, Orthopedic Surgery, Wright State.* **[Endeavour A]**

Nursing/Nurse Practitioner: Many students are interested in a career in nursing. The Department of Nursing at Wright State will present the requirements for a bachelor's degree in nursing and how it can lead you to a successful career. You will learn more about what a nurse practitioner does, the education required to pursue this career, and how this healthcare provider contributes to healthcare. *Presenter(s):* *Dr. Ann Bowling, APRN, CPNP-PC, Associate Professor, Department of Nursing, Wright State.* **[Endeavour B]**

Osteopathic Medicine (DO): Two types of medical physicians practicing exist in the United States, the allopathic (or M.D.) and osteopathic (or D.O.) physician. Are there any differences in their medical education? Do they both offer the same residency opportunities? What are the general admission statistics for someone entering an osteopathic medical school? If you are interested in learning more about the philosophy behind osteopathic medicine, don't miss out on this presentation! *Presenter(s):* *Jill Harman, Director of Admissions, Ohio University Heritage College of Osteopathic Medicine.* **[Endeavour C]**

Professional Psychology / Psychiatry: Many healthcare providers work together to treat patients in a variety of settings. Psychologists collaborate with other healthcare providers to support patients' mental health needs throughout the life cycle. Mental health includes emotional, psychological, and social well-being. You will learn more about professional programs in psychology. *Presenter(s):* *Dr. Michelle Schultz, Associate Professor and Chair, Wright State University; Dr. Jeremy Schumm, Professor and Director of Clinical Training, Wright State.* **[Discovery A]**

Pharmacy: Considered to be one of the fastest-growing fields in the health professions, pharmacists are medication experts and play a critical role in helping people get the best results from their medications. Pharmacists prepare and dispense prescriptions, ensure medicines and doses are correct, prevent harmful drug interactions, and counsel patients on the safe and appropriate use of their medications. *Presenter(s):* *Dr. Steven Leonard, Associate Professor of Pharmacy Practice, Ohio Northern University.* **[Discovery B]**

Allopathic Medicine (MD) and the Boonshoft School of Medicine: Since its establishment in 1973, the Wright State University Boonshoft School of Medicine has become a nationally recognized leader in medical education. If you are interested in medicine, you don't want to miss an opportunity to learn about our medical school. Find out what a competitive applicant looks like and learn more about the various pathways to a medical degree. *Presenter: Kaelin Locker, Interim Director of Admissions, Boonshoft School of Medicine, Wright State University* **[Atlantis]**

Medical Laboratory Science: The medical laboratory scientist is a vital member of the health care team. A laboratory scientist's major responsibilities include analyzing patients' samples in the specialties of chemistry, hematology, microbiology, immunology, transfusion services, and molecular techniques. Attend this session and discover one of Wright State's best-kept secrets! *Presenter(s): Amy Wissman, Director of Medical Laboratory Sciences, Wright State University; Mark Calabro, Instructor and Clinical Coordinator, Medical Laboratory Sciences, Wright State University* **[Endeavour A]**

Public Health: There is an increasing demand for public health professionals, yet many students don't know what they do or what education is required. With threats like COVID-19, zika virus and Ebola, childhood obesity, type 2 diabetes, and daily needs such as clean water and safe restaurants, those interested in the health professions must understand what public health all is about. *Presenter: Sara Paton, Ph.D., Associate Professor, Epidemiologist, Population and Public Health, Boonshoft School of Medicine, Wright State University* **[Endeavour B]**

Rehabilitation Services / Integrated Human Services: Rehabilitation counselors help people with disabilities achieve their personal, social, psychological, and vocational goals. They counsel people with physical, sensory, developmental, and cognitive disabilities and those with mental health or other health conditions acquired at birth or resulting from illness, disease, accident, military service, and/or ongoing stress. Using interventions and other counseling techniques, they help clients overcome environmental and attitudinal barriers, obtain needed services, and use technology that can assist them. *Presenter(s): Mary Huber, Ph.D., C.R.C., Professor, Interim Clinical Rehabilitation Program Director, Wright State University* **[Endeavour C]**

Social Work: The social work profession is made up of a diverse group of professionals who respond to and prevent crises and help others cope with the stresses of everyday life. These licensed professionals assist individuals, groups, or communities of diverse cultural and economic backgrounds to restore or enhance their capacity for social functioning. The approach to care is oriented towards solving problems and promoting positive social change. Social workers specialize in one or more of over 40 practice areas and work in a variety of practice settings. *Presenter: Jennifer Hughes, Ph.D., Professor, Social Work, Wright State University.* **[Discovery A]**

Veterinarian Medicine: Doctors of Veterinary Medicine are medical professionals who play a significant role in animal health care and welfare, human public health, medical research, and public safety. They have a broad-based medical background and serve in many capacities. This session will discuss veterinarians' roles, preparing for and applying to veterinary schools and colleges, and employment opportunities available to new veterinarians. *Presenter(s): Dr. Emily Dudley, Director, Laboratory Animal Resources, Associate Professor, Pathology, Wright State University* **[Discovery B]**

Session V:

11:20 a.m.–12:05 p.m.

Current and Pre-Health Professions Student Q&A: Ever wonder what it is honestly like to be in health professions school? What classes are taught in the first year? How much studying is required? Do they have time for a social life? The list goes on and on. Join this session to talk to some current health professions students about life in medical school and what to expect. They will share their stories and give you advice on how to prepare. *Presenter(s): Current health profession students and current Wright State pre-health students from various healthcare areas; Moderator: Rob Cowles, Pre-Professional Health Program Coordinator.* **[Apollo]**

Session VI—Optional Q&A, Tours:

12:15 p.m.

Admissions, Financial Aid, Housing Q&A: Still have questions about becoming a RAIDER? Stop by and chat with a representative to have those questions answered before you leave. **[Atlantis]**

Anatomy Lab Tour: Among one of the most popular stops on campus tours, the state-of-the-art anatomy lab offers a unique and somewhat unusual glimpse of campus study. Wright State's anatomy lab provides the opportunity study human anatomy without compromise and ensures that all learners have the best experience to develop the skillsets needed for their chosen profession. **[Endeavour A]**

Campus and Housing Tour: Student Ambassadors from the Offices of Undergraduate Admissions and Housing will lead you on a tour of our beautiful 651-acre wooded campus. See classrooms, campus housing options, and the tunnels that connect 22 buildings on the main academic area of campus! **[Endeavour B]**

Nursing Skills Lab Tour: See first-hand the nine state-of-the-art nursing labs which include medical simulators that mimic almost any imaginable patient scenario, including childbirth, cardiac events requiring CPR, defibrillation, and seizures. **[Apollo]**

Pre-Professional Advising Q&A: Still have questions about the steps needed to pursue a career in health care? Come to our Q&A session, where Pre-Professional Health Coordinator Rob Cowles will help answer your question. **[Endeavour C]**

What Does it Mean to Be a Pre-Health Student at Wright State?

Overview:

Pre-Health means you have the desire to go to **Chiropractic, Dental, Medical, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, Podiatry, Veterinary Medical** school sometime after you complete your undergraduate degree.

It also requires you to:

- Take the required prerequisite coursework (next page) for your desired program(s).
- Work closely with the Pre-Professional Health Program by attending workshops and advising sessions.
- Possess essential qualities, such as but not limited to, competitive grade point average and entrance exam scores, strong personal attributes, and have meaningful pre-health and other professional experiences.

Competitive Metrics:

- Maintain a high undergraduate GPA; devote time to earning a competitive admission test score.
- Plan to apply to health professions school after completing the necessary undergraduate coursework and investigate these schools' admissions expectations.
- Major in any field that interests you. Take the required science and other prerequisites required by the professional schools to which you plan to apply.

Personal Attributes:

- Strengthen your leadership skills by actively participating in campus clubs and organizations.
- Commit time to volunteerism and community service.
- Acting, thinking, and always communicate as a professional.

Meaningful Experiences:

- Network and make connections with professionals in your desired health-related field.
- Gain exposure through first-hand shadowing and observation experiences.
- Investigate alternative career options.
- Explore the career field through employment opportunities.

Pre-Professional Health Programs:

- Pre-health is not a major.
- Pre-health is an intention and commitment by the student.
- Pre-health is a pathway and a designated set of support services, assistance, resources, and information needed to pursue a career path to the health care professions successfully.
- The Pre-Professional Health Program supports students like you by assisting you to:
 - **Explore** various health career professions, understanding the type of work involved and how your strengths, motivations, and preferences match.
 - **Prepare** for your selected health professions by ensuring you are taking the correct prerequisite coursework and completing necessary extracurricular activities.
 - **Apply** to health professions schools by assessing readiness to apply, helping to select schools, completing your application, and preparing to interview.

Recommended Coursework for Pre-Health Students

Every health professional school requires a specific set of prerequisite science courses for admissions. Remember, you can choose any major you desire. Find a major that fits you, that you will love, and that you will excel in. Regardless of your majors, grades are extremely important, especially in the required coursework.

Generally, the prerequisite science courses include:

- One-year of biology with laboratory
- One-year of general chemistry with laboratory
- One year of physics with laboratory
- One year of math that includes a semester of calculus and a semester of statistics.

Additional courses vary by health professional school, visit Wright State's pre-health website (wright.edu/prehealth) to discover the recommended courses by health professions and the corresponding Wright State course.

If you are still in high school, considering taking advanced or college-level coursework in biology, chemistry, physics, statistics, calculus, psychology, economics, or English. These courses will build the academic foundation needed to start your college career off on the right foot.

Suggested General Timeline for Pre-Health Students

Freshman Year of College

- Adjust to college academic life and rigor.
- Explore and join student organizations
- Volunteer in a way meaningful for you.

Sophomore Year of College

- Volunteer and job-shadow.
- Get to know your professors and build professional relationships.
- Find leadership opportunities

Junior Year of College

- Finish prerequisite courses.
- Strengthen professional relationships.
- Continue to be involved.
- Take your entrance exam
- Apply and interview (no gap year)

Senior Year of College

- Apply and interview (gap year)
- Finish degree
- Next step – HEALTH PROFESSIONAL SCHOOL AND SAVING THE WORLD!

Special thanks to:

- **YOU!** Students and guests, thank you for joining us today. We're glad you came and hope to see you again as RAIDERS soon!
- **Our sponsor**, the College of Science and Mathematics Pre-Health Program
- **Our volunteers, speakers, and support team** – Please join us again next year!

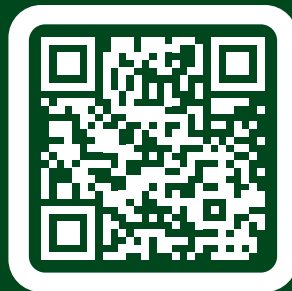
For more information:

- Wright State Pre-Health Program: www.science-math.wright.edu/pre-health-program
- College of Science & Mathematics: <https://science-math.wright.edu/>
- College of Education and Human Services: <https://education-human-services.wright.edu/>
- Wright State majors and RAIDER admissions: www.wright.edu/admissions
- Careers in healthcare: www.explorehealthcareers.org



COLLEGE OF
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MATHEMATICS**

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