

BIOMEDICAL DIAGNOSTIC AND THERAPEUTIC SCIENCES MAJORS

Is Biomedical Diagnostic and Therapeutic Sciences For Me?

Find out by answering the following questions. If you answer yes to most of them, read on to learn more. If not, try one of the other **Major Profiles**.

	No	Yes
Are you investigative, enterprising, realistic, or social?	<input type="checkbox"/>	<input type="checkbox"/>
Would you enjoy working under pressure and with hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>
Would you enjoy working in an area with risk associated with it?	<input type="checkbox"/>	<input type="checkbox"/>
Do you enjoy investigating and looking for solutions to proposed problems?	<input type="checkbox"/>	<input type="checkbox"/>
Do you like chemistry, biology, physics or science in general?	<input type="checkbox"/>	<input type="checkbox"/>
Are you an independent worker?	<input type="checkbox"/>	<input type="checkbox"/>
Would you enjoy a job where you stand for the majority of the time or a non-desk job?	<input type="checkbox"/>	<input type="checkbox"/>

What is Biomedical Diagnostic and Therapeutic Sciences?

The Biomedical Diagnostic and Therapeutic Science (BDTS) program is designed to prepare students for professional opportunities in a variety of growing healthcare fields. In response to emerging technologies, many areas of specialization have evolved that ensure the expertise of the healthcare personnel fulfilling critical roles. Additionally Oakland's program is designed to provide opportunities for students to be involved in research and incorporate research trends into the curriculum of each discipline, Maintain a variety of majors and specialized curricula that are founded on current advances in laboratory sciences such that students are prepared for a graduate degree in laboratory sciences or related basic science areas, or for professional degree, and create a learning environment that advocates practice of student professionalism and promotes excellence in healthcare service to the community.

What Courses Will I Take?

- General Chemistry
- Medical Terminology
- Hematology/Cellular Pathophysiology
- Medical Biochemistry
- Clinical Radiation

What Are Some Related Majors?

- Health Science
- Nursing
- Physical Therapy
- Biology
- Chemistry

What Skills Will I Develop?

The Biomedical Diagnostic and Therapeutic Science (BDTS) program is designed to prepare students for professional opportunities in a variety of growing healthcare fields. Various skills are necessary in areas such as communication, critical thinking, data-analysis, decision making, and observation. In response to emerging technologies, many areas of specialization have evolved that ensure the expertise of the healthcare personnel fulfilling critical roles. Because it meets basic academic requirements, the biomedical sciences curriculum provides excellent preparation for entry into post-baccalaureate professional programs including physician assistant, medicine, dentistry and osteopathy.

Where Could I Work?

Graduates may find employment in hospital or commercial clinical laboratories, research laboratories or public health facilities. Positions within biomedical corporations, including research and development, quality assurance and sales or service may also be prospective sources for employment (OU School of Health Sciences, 2012).

Related Careers

Pathology Assistant	Science Technician	Medical Laboratory Technologist
Medical Technician	Genetic Technologist	Veterinary Technologist

Employment Outlook

Employment of medical laboratory technologists is expected to grow by 11 percent between 2010 and 2020, about as fast as the average for all occupations. An increase in the aging population will lead to a greater need to diagnose medical conditions, such as cancer or type 2 diabetes, through laboratory procedures. Medical laboratory technologists will be needed to use and maintain the equipment needed for diagnosis and treatment (Occupational Outlook Handbook, 2012-13).

Salary Expectations

The median annual wage of medical laboratory technologists was \$56,130 in May 2010. The median annual wages in selected industries employing medical laboratory technologists in May 2010 were as follows:

Federal government	\$62,880
Hospitals; state, local, and private	56,470
Medical and diagnostic laboratories	55,930
Offices of physicians	52,250

(Occupational Outlook Handbook, 2012-13)

Where Can I Get More Information?

Oakland University School of Health Sciences	www.oakland.edu/shs/
Academic Advising at OU	www.oakland.edu/shs/bdts
Major Exploration at OU	www.oakland.edu/firstyearadvising
American Society for Clinical Laboratory Science	www.ascls.org
American Medical Technologists	www.americanmedtech.org