# BIOMEDICAL SCIENCE, M.B.S.

## Contact

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## Mission

The Master of Biomedical Science prepares graduates with the skills, knowledge, and abilities needed for advancement into a wide range of healthcare-related graduate programs, such as Doctor of Osteopathic Medicine (D.O.), D.D.S. (Doctor of Dental Surgery), (Physician Assistant) PA, Nurse Practitioner (NP), and others.

## Program Description

The Master of Biomedical Science is a 9-course, 30-graduate-credit hour program that prepares graduates with the skills, knowledge, and abilities needed for advancement into a wide range of healthcare-related graduate programs, such as D.O., D.D.S., PA, NP, and others. Students may complete the coursework for the M.B.S. program in two academic years, taking one course during each 8-week term, or on an accelerated schedule by increasing the number of courses taken per term.

## Transfer Credit

Upon acceptance, students may apply to transfer up to one course into the Master of Biomedical Science program.

To request consideration for transfer credit, a student must provide an official transcript and a course syllabus for each course. Transfer credit is awarded at the discretion program details listed below. Requests for approval of transfer credit should be submitted to and will be granted at the discretion of the Program Director.

Transfer courses must:

- Be classified as graduate level.
- Have been taken within five years of application.
- Have been completed with a grade of B or better.
- Be worth three credits.
- Be equivalent to one of the required program courses or an elective course that meets the goals of the student's education.

### Experiential Credit

The M.B.S. program does not grant academic credit for life experiences or previous work experience.

## Admissions

See Online Admissions (https://catalog.une.edu/graduate/admissions/#onlineprogramstext) for more information.

## Financial Information

### Tuition and Fees

Tuition and fees for subsequent years may vary. Other expenses include books and housing. Please consult this catalog's Financial Information (https://catalog.une.edu/graduate/financial-information-graduate-programs/) page for specific tuition and fees information.

**Curricular Requirements**

| Code | Title | Hours |
|---|---|---|
| **Program Required Courses** | | |
| MBS 636 | Applied Biostatistics | 3 |
| MBS 640 | Medical Ethics | 3 |
| MBS 650 | Applied Medical Biochemistry | 4 |
| MBS 660 | Gross Anatomy [1] | 4 |
| MBS 670 | Medical Physiology | 4 |
| MBS 680 | Advanced Cell Biology | 3 |
| MBS 750 | Biomedical Science in Practice | 3 |
| Select two of the following: | | 6 |
| GPH 712 | Principles of Epidemiology | |
| GPH 713 | Infectious Disease Epidemiology [1] | |
| GPH 717 | Applied Epidemiology [1] | |
| GPH 721 | Foundations of Maternal & Child Health | |
| GPH 722 | Introduction to Environmental Health | |
| GPH 724 | Introduction to Occupational Health | |
| GPH 737 | Pandemic Preparedness and Response | |
| GPH 740 | Global Health | |
| GPH 766 | One Health | |
| MBS 656 | Applied Microbiology | |
| MBS 675 | Applied Genomics | |
| **Total Hours** | | **30** |

[1] Prerequisite course(s) required.

## Academic and Technical Standards

### Minimum Grade Point Average

Matriculated graduate students must maintain a cumulative GPA of 3.0 or better. Failure to do so will result in academic probation and possible termination from the program. Any student receiving a grade below B- on any individual course has failed that course must re-enroll and repeat the course to achieve a grade of B- or better. Any student who receives a grade of F in two or more courses may be dismissed from the program. An F that is replaced through retaking the course does not count toward this policy.

### Graduation

Candidates must fulfill all program requirements and are required to earn a minimum cumulative GPA of 3.0 to be eligible to graduate. All students must file an Application to Graduate with the registrar's office via UNE Compass. Please visit the Office of the Registrar website (https://www.une.edu/registrar/graduation/) for complete instructions and the answers to frequently asked questions.

## Learning Outcomes

- Apply advanced integrated knowledge of biological sciences as related to medicine and human health.
- Critically appraise and apply evidence-based skills in biomedical sciences to medicine and other health disciplines.
- Advance responsible conduct and ethical standards in medical and other healthcare professional settings.
- Communicate and collaborate with stakeholders across interprofessional education and practice.

- Research, develop, and disseminate evidence-based materials and work products at an audience-appropriate level for topics related to the biomedical sciences.

## Program Goals

1. Advanced Biomedical Knowledge: Graduates will demonstrate a comprehensive understanding of advanced biomedical concepts and their applications in research, healthcare, and industry.
2. Critical Thinking and Problem-Solving: Graduates will be able to critically analyze complex biomedical problems, apply evidence-based approaches, and develop innovative solutions to address challenges in the field.
3. Research Skills and Innovation: Graduates will possess strong research skills, including experimental design, data analysis, and scientific writing, and will be prepared to contribute to cutting-edge biomedical research.
4. Professional Development and Leadership: Graduates will develop the professional skills and leadership qualities necessary to succeed in a variety of biomedical careers, including academia, industry, and healthcare.
5. Ethical Conduct and Social Responsibility: Graduates will demonstrate a commitment to ethical principles and social responsibility in biomedical research and practice.