

# Biomedical Sciences

## UNDERGRADUATE MAJOR

With a major in **Biomedical Sciences (BISC)**, you will study the sciences from a human perspective to develop a solid foundation for a career in health care. The 33-credit major is composed of three required courses (anatomy, physiology and biochemistry) and other major requirements that allow students to select courses based on their interests and long-term goals.

### BISC Course Options:

- ✓ Biology of Aging
- ✓ Diseases of the Brain
- ✓ Embryology
- ✓ Endocrinology
- ✓ Forensic Science
- ✓ Functional Neuroanatomy
- ✓ Gross Anatomy
- ✓ Head and Neck Anatomy
- ✓ Human & Applied Medical Genetics
- ✓ Human Microbiology
- ✓ Introduction to Dentistry
- ✓ Nutritional Aspects of Health
- ✓ Outbreaks, Epidemics & Pandemics
- ✓ Pharmacology
- ✓ Practical Cases in Medicine
- ✓ Principles of Human Embryology
- ✓ Public Health
- ✓ Systems Neuroscience

*See reverse side for typical 4-year curriculum plan*

### High Impact Experiences:

- **Participate in Research** – independent study, Summer Research Program (SRP), or paid lab positions offer you opportunities for hands-on research experience.
- **BISC Disciplinary Honors Program** – in junior and senior years, complete a project focused on research or community engagement.
- **Flexible degree** – with only three required courses, the flexible curriculum of this major may allow you to study abroad, add a minor (or two) or complete a double major to create a degree tailored to your interests.
- **Work as a teaching assistant** – work as an anatomy lab TA starting your junior year.
- **Internship opportunities** – earn academic credit for completing an approved internship in biotech, non-profit, governmental/health industries, or bioethics.

For more information, scan the QR code or visit:  
[Marquette.edu/biomedical-sciences](http://Marquette.edu/biomedical-sciences)



### Why BISC at MU?

- Human health science focus is a natural fit for medical school and other health-related graduate programs.
- Work with and learn from **internationally respected cutting-edge researchers** tackling some of society's most pressing medical problems.
- **Accelerated degree** options for MU graduate/ professional programs in dentistry, physical therapy, physician assistant, occupational therapy, and more.
- **Partnership** with the Medical College of Wisconsin for accelerated pathways to their Pharmacy and Global Health Equity programs.



**MARQUETTE**  
UNIVERSITY

**College of Health Sciences**

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## Typical 4-year Curriculum

Freshman Year	
<i>FALL SEMESTER</i>	<i>SPRING SEMESTER</i>
General Biology 1*	General Biology 2*
General Chemistry 1*	General Chemistry 2*
MCC Foundations in Rhetoric	MCC Foundations in Philosophy
MCC Foundations in Theology	MCC Engaging Social Systems and Values 1
Contemporary Issues in Biomedical Sciences	General Elective
Sophomore Year	
<i>FALL SEMESTER</i>	<i>SPRING SEMESTER</i>
Clinical Human Anatomy	Biochemistry*
Organic Chemistry* (2 options)	Organic Chemistry 2* or General Elective
MCC Discovery – Humanities	Statistics*
General Elective/Writing Intensive (MCC)	General Elective/ESSV2 (MCC)
Core 1929 (MCC Foundations)	MCC Discovery – Social Science
Junior Year	
<i>FALL SEMESTER</i>	<i>SPRING SEMESTER</i>
Human Physiology	Anatomy and Systems Course
Anatomy and Systems Course	Cell and Molecular Course
Health and Society Foundation	MCC Discovery – Natural Science and Math
Biological Investigation*	General Elective
Physics I* or General Elective	Physics II* or General Elective
Senior Year	
<i>FALL SEMESTER</i>	<i>SPRING SEMESTER</i>
Cell and Molecular Course	Anatomy and Systems or Cell and Molecular
Biomedical Sciences Elective	Biomedical Sciences Elective
Medical Ethics	Disease and Pathology Foundation
MCC Discovery - Elective	MCC Culminating Course
General Elective	General Elective
Major requirement courses denoted in blue; MCC = Marquette Core Curriculum (required of all MU students) * Denotes courses typically required as prerequisites to medical/dental/health professional schools	

The depth and breadth of this major allows you to adjust your coursework to align with your goals and plans. Your assigned biomedical sciences academic adviser and pre-health adviser will work with you to make sure you are taking necessary courses and tracking appropriately to reach your career aspirations while also graduating on time.

