

CELL AND MOLECULAR PHYSIOLOGY (MS)

The Master of Science in Cell and Molecular Physiology (MS CaMP) is a research-intensive program that provides a broad, foundational knowledge of cellular, molecular, and systems-level physiology as well as the opportunity to pursue research with faculty mentors. The MS CaMP program fosters a stimulating and exciting research environment.

Related Programs

Master's

- Cellular and Molecular Oncology (MS) (<https://catalog.luc.edu/graduate-professional/graduate-school/health-sciences/biomedical-sciences/cellular-molecular-oncology-ms/>)

Doctoral

- Cell and Molecular Physiology (PhD) (<https://catalog.luc.edu/graduate-professional/graduate-school/health-sciences/biomedical-sciences/cell-molecular-physiology-phd/>)

Combined

- Cell and Molecular Physiology (MD/PhD) (<https://catalog.luc.edu/graduate-professional/dual-degree-programs/cell-molecular-physiology-md-phd/>)

Curriculum

The Master of Science in Cell and Molecular Physiology requires 30 semester credit hours and a thesis.

Coursework Requirements

| Code | Title | Hours |
|--------------------|---|-----------|
| BMSC 410 | Biochemistry and Molecular Biology | 4 |
| BMSC 412 | Cell Biology | 4 |
| PIOL 410 | Intro to Research | 2 |
| BMSC 405 | Ethics in Biomedical Sciences | 1 |
| PIOL 401 | Physiology ¹ | 4 |
| PIOL 420 | Methods/Technical in Physiological Research | 2 |
| PIOL 412 | Research | 1-6 |
| PIOL 595 | Thesis Supervision | 0 |
| Total Hours | | 30 |

¹ Students may elect to take PIOL 401 Physiology in Fall or Spring semester depending on systems of interest. On rare occasions, students may elect to enroll twice with the approval of their PI and the Graduate Program Director. Research hours will be adjusted accordingly.

Learning Outcomes

MS CaMP students will be able to demonstrate ability in:

- Gaining a general knowledge base in the biomedical sciences
- Acquisition of deeper knowledge of past and current scientific literature in a more specific field within physiology (i.e., in the chosen track of study)
- Ability to form hypotheses and to design and perform appropriate experiments to test these hypothesis
- Acquisition of oral and written communication skills for scientific peers and general audiences

Graduate & Professional Standards and Regulations

Students in graduate and professional programs can find their Academic Policies in Graduate and Professional Academic Standards and Regulations (<https://catalog.luc.edu/academic-standards-regulations/graduate-professional/>) under their school. Any additional University Policies supersede school policies.