

## Master's of Science in Medical Biotechnology Information Sheet

2008-09

The department of biomedical sciences at the University of Illinois College of Medicine at Rockford is offering a master's of science degree program that focuses on the scientific basis of biotechnology as applied in medicine. This interdisciplinary program concentrates on biological processes and technologies used in the research and development of pharmaceutical products, vaccines and equipment for the medical industry.

### Who may find this course useful?

Designed to provide a higher-level of technical training, these courses may be optimal for new graduates looking for focused, experience-based study in biotechnology; working professionals wishing to acquire skill enhancement or job enrichment; or individuals looking to gain differentiation in the healthcare industry's job market.

### How may MBT courses be taken?

- Master's degree candidate
- Credit non-degree (up to 12 hours may be applied to MS-MBT)
- Professional skill enhancement or degree "exploration"

### Degree requirements

- 20 credit hours of required courses
- 6 or more credit hours of elective courses
- Research-industrial research or academic thesis
  - 8 or more credit hours
- Total credit requirement - minimum of 34 credit hours
- Time to complete - minimum of 1.5 years (2 years is typical)

### Program entrance requirements

Acceptance in UIC graduate college; baccalaureate degree in science, math or engineering; college courses in math, chemistry or biology; GPA 3.0 (of 4.0); TOEFL if non-native speaker; letters of recommendation.

For application information contact Janet Stull Snow, 815.395.5728, [jlss@uic.edu](mailto:jlss@uic.edu)

### Application dates

Fall 2008: June 15, 2008

Spring 2009: November 1, 2008

### What does the program cost?

The minimum total cost for completing the degree program is approximately \$24,000 (Illinois resident) or \$42,000 (non-Illinois resident), for students carrying 12 credits per semester.

### 2008 per semester (15 weeks) tuition and fees

Course Load	Resident	Non-resident
Range I 12 or more credit hours	\$9,081.00	\$15,080.00
Range II 6 to 11 credit hours	\$6,400.00	\$10,400.00
Range III 1 to 5 credit hours	\$3,703.00	\$5,702.00

### Curriculum Overview

In their first year of the program, students will take core courses in subjects such as biochemistry, cell biology, immunology, physiology, bioethics and statistics. The second year will include more theoretical and practical training in a selection of techniques and processes common to biotechnology research. A student-driven project will cap the curriculum providing experience in planning, budgeting, marketing and execution of research projects.

#### Fall 2008 Courses

MBT 500 DNA and Proteins  
 MBT 501 Cell Biology and Human Physiology  
 MBT 502 Immunotechnology, Microbiology and Cell Therapy  
 MBT 510 Techniques and Processes Biotechnology  
 MBT 591 Department Seminar in Biotechnology  
 MBT 594 Special Topics in Biotechnology

\*Special Topics in Biotechnology will focus on two areas:

- Cell and tissue culture
- Proteomics

#### Spring 2009 Courses

MBT 502 Immunology, Microbiology and Cellular Therapy  
 MBT 503 Pharmacology, Toxicology and Clinical Trials  
 MBT 513 Research Planning, Design and Execution  
 MBT 520 Biotechnology Product Development: Concepts, Practice and Regulatory Issues  
 MBT 591 Seminar in Biotechnology  
 MBT 594 Special Topics in Biotechnology

\*Special Topics in Biotechnology will focus on two areas:

- Molecular Biology Techniques I
- Bioinformatics

### For more information contact:

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