

UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE AT ROCKFORD

Department of Biomedical Sciences
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Rockford, Illinois 61107

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Specialized training.
Hands-on experience.

Graduate Courses Focused on Medical Biotechnology

Department of Biomedical Sciences
University of Illinois College of Medicine at Rockford

achieve training in state-of-the-art fields focused on the scientific techniques and disciplines used in the biotechnology industry...



GRADUATE COURSES FOCUSED ON MEDICAL BIOTECHNOLOGY



What is being offered?

The department of biomedical sciences at the University of Illinois College of Medicine at Rockford is offering a selection of graduate level courses that focus on the scientific basis of biotechnology as applied in medicine, and on direct experience in laboratory techniques central to biotechnology research and development.

The courses offered in the fall of 2007 will highlight the following areas:

- ✓ The chemistry and biology of proteins and DNA
- ✓ Basics and applications of immunology and microbiology in medically focused biotechnology
- ✓ Training in specific laboratory techniques and processes used in biotechnology
- ✓ Individual study on specific laboratory techniques

Who might find these courses useful?

Designed to provide a higher-level of technical training, these courses are optimal for undergraduate students looking for an in-depth study in biotechnology; graduates looking for advanced training with a biomedical focus; working professionals wishing to acquire skill enhancement or job enrichment; or students looking to gain differentiation in the healthcare industry's job market.

These courses will be offered in flexible course schedules, with classes held during the day, in the evenings or on weekends on Rockford's scenic 20-acre campus. Because of the small class size, some courses can be scheduled to accommodate the mutual convenience of both faculty and students on a term by term basis.

Will these courses provide graduate credit?

The graduate level courses offered will carry full University of Illinois graduate credit in a non-degree status. Up to 12 graduate credit hours may be eligible for transfer at a later date into a University graduate degree program if desired.

What does the program cost?

2007 Tuition and Fee Structure Summary*

| Course Load | Range I: 12 or more credit hours | | Range II: 6 to 11 credit hours | | Range IV: 1 to 5 credit hours | |
|--|-------------------------------------|--------------|-----------------------------------|--------------|----------------------------------|--------------|
| | Resident | Non-Resident | Resident | Non-Resident | Resident | Non-Resident |
| Total Cost (semester): tuition, differential and fees | \$8,679 | \$14,678 | \$6,125 | \$10,124 | \$3,556 | \$5,556 |

*Part of the student fee may be waived for eligible students

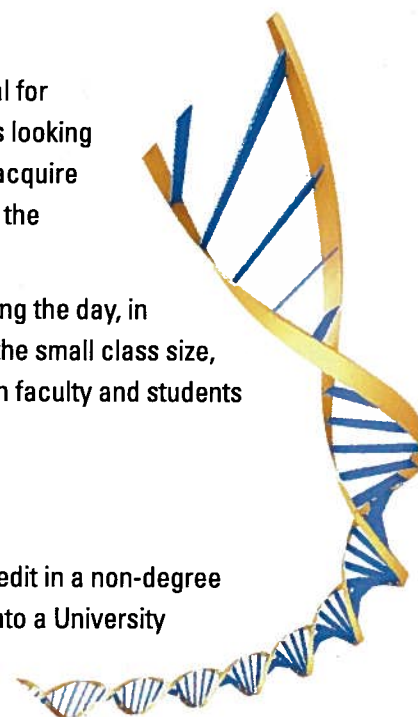
How do I enroll in these courses?

Application for enrollment in one or more of these courses begins with the completion and submission of the graduate college application which can be found on the UIC web site at www.uic.edu/depts/grad/admissions/appforms.shtml. Proof of baccalaureate degree completion is required for non-degree admission. Please note that application to the graduate college requires a \$50 fee. For more information on recommended requirements,

or information on credit/non-degree courses, please contact Janet Stull Snow in the department of biomedical sciences at 815-395-5728.

What is the application deadline?

The application deadline for fall 2007 course enrollment is **July 15, 2007**.





Fall 2007 Course Offering

MBT 500 DNA and Proteins*

3 credit hours

This course will focus on molecular biology including the areas of DNA replication, transcription, translation and post-translational modifications, genome structure, viruses, bioinformatics and micro arrays. There will also be a review of protein chemistry, protein structure, enzyme mechanisms, and biochemical pathways and regulation of biochemical pathways.

MBT 502 Immunotechnology, Microbiology and Cellular Therapy*

3 credit hours

This course will focus on basic and applied immunology and microbiology. Detailed discussions and demonstrations may include antibody production principles, clinical uses of antibodies, fermentation and bioremediation and protein production principles, cellular and stem cell therapies, bioterrorism control, containment and eradication.

MBT 521 Techniques and Processes in Biotechnology*

3 credit hours

This course will review selected techniques and processes used in biotech research: for example, the preparation and isolation of antibodies, basics of cell culture, recombinant DNA techniques, techniques of protein production and engineering, and examples of cloning. Basics of GLP and practical experience in applications of GLP will also be covered. Course involves discussion lectures and laboratory sessions.

MBT 596 Independent Study in Biotechnology*

1 to 4 credit hours

Independent and individual study of a topic in biotechnology, that usually involves extensive literature research culminating in a review paper or hypothesis/conclusion argument paper. Topics selected are typically an outgrowth of student's interest in a specific classroom concept.

*Designates credit non-degree courses. Students enrolled receive graduate-level credits, and are allowed to transfer up to 12 credits to a degree program.

For more information, please contact:

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