

## MCB Certificate in Microbiology

Updated January 2017

The **Certificate in Microbiology** option allows MCB undergraduate majors to receive recognition for completing coursework providing a foundational understanding of the discipline of microbiology at multiple levels and from multiple perspectives. Students completing the Certificate will be presented with an official certificate document and will be free to use this credential on a CV/resume or application for advanced study.

For completion of the Certificate in Microbiology, students must opt in by completing the declaration form at <http://go.illinois.edu/microbio> no later than the 10th day of their final semester. Certificate students must complete a total of at least 11 credit hours of coursework from the Approved List of Courses below. One lecture course of 3 credit hours and one microbiology-focused laboratory course of at least 2 credit hours are required specifically. The remaining credit hours may come from any of the other courses on the Approved List. Students are strongly encouraged to select a diverse set of courses (e.g., one in microbial physiology or biochemistry and one in pathogenesis) with at least one that includes discussions of primary literature. Note: All of these courses (except MCB 290) may also count toward the 15 credit hours of advanced MCB courses required for MCB majors.

### **Certificate in Microbiology Approved List of Courses:**

#### ***One microbiology lecture course is required:***

MCB 300: Microbiology, 3 credit hrs, FA/SP

#### ***One of the following microbiology laboratory courses is required:***

MCB 301: Experimental Microbiology, 3 credit hrs, FA/SP

MCB 428: Microbial Pathogenesis Laboratory, 2 credit hrs, FA

MCB 290: Undergraduate Research, 2 or more credit hrs, FA/SP/SU, conducted in an approved microbiology research laboratory

#### ***At least two of the following approved microbiology lecture courses are required:***

MCB 421: Microbial Genetics, 3 credit hrs, FA

MCB 424: Microbial Biochemistry, 3 credit hrs, SP in even years

MCB 426: Bacterial Pathogenesis, 3 credit hrs, FA

MCB 429: Cellular Microbiology & Disease, 3 credit hrs, SP

MCB 431: Microbial Physiology, 3 credit hrs, FA

MCB 432: Computing in Molecular Biology, 3 credit hrs, SP

MCB 435: Microbial Ecology & Evolution, 3 credit hrs, SP

MCB 493: Section VIR only, Viral Pathogenesis & Evolution, 3 credit hrs, SP

#### Notes:

Students are not guaranteed a seat in a course required by the certificate, but are welcome to enroll in courses where seats remain available after any restriction, which may have been placed, has been removed.

Courses may not be used to satisfy the requirements of more than one MCB Certificate.

Contact [advising@mcb.illinois.edu](mailto:advising@mcb.illinois.edu) or call 217-333-6774 for more information.