



MCB Certificate in Cell and Developmental Biology

Available Fall 2017 and Beyond

The **Certificate in Cell and Developmental Biology** option allows undergraduate majors to obtain recognition for completing coursework providing a foundational understanding of how interactions among molecules, macromolecules and macromolecular machines give rise to living cells. Fundamentals of how specialized cells function and how the complex interactions between these cells guide development will be key towards understanding how these mechanisms go awry in various disease states. 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 Cell and Developmental Biology, students must meet with an MCB advisor and then opt in by completing the [declaration form](#) no later than the 10th day of their final semester. Certificate students must complete a total of at least 12 credit hours of coursework from the Approved List of Courses below. 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 Cell and Developmental Biology Approved List of Courses:

1. MCB 316 Genetics and Disease (SP) 4 credit hours
or
MCB 317: Genetics and Genomics (FA) 4 credit hours
2. MCB 400: Cancer Cell Biology (FA) 3 credit hours
3. MCB 401: Cell and Membrane Physiology (FA) 3 credit hours
4. MCB 408: Immunology (SP) 3 credit hours
5. MCB 410: Developmental Biology (SP) 4 credit hours
6. MCB 461: Cell and Molecular Neuroscience (FA) 3 credit hours
7. MCB 471: Advanced Cell Biology (FA) 3 credit hours
8. MCB 480: Eukaryotic Cell Signaling (SP) 2 credit hours
9. MCB 493 sxn EPI: Epigenetics and Chromatin (SP) 3 credit hours
10. MCB 493 sxn ECB: Experimental Cell Biology Laboratory (FA/SP) 2 credit hours
or
MCB 290 undergraduate research in an approved CDB laboratory 3 credit hours

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 or call 217-333-6774 for more information.