



Approved List of Advanced Courses for MCB Majors
Revised and Effective for Spring 2010

The MCB major requires at least 15 hours at the 300- or 400-level *from this approved list*. One course with a laboratory component is required. Those courses, which count as an advanced laboratory course are marked with an asterisk (*). The College of LAS, for its Sciences and Letters Curriculum, requires each student to earn at least 21 hours in advanced courses (MCB advanced hours count toward this total). Please visit www.las.uiuc.edu/students/requirements/minimum for more information about the college requirements. Note: graduate level courses (500- or 600- level) will NOT count as advanced MCB hours.

This document was last updated on 21, October 2009

Term (s) Offered	Course	Course Title	Cr Hrs	Lab Course *	Instructor(s)	Cross Listed Courses
FA, SP	MCB 300	Microbiology	3		Jack Ikeda	
FA, SP	MCB 301	Experimental Microbiology	3	*	FA: Renee Alt, Jack Ikeda SP: Renee Alt, Gail Grabner	
FA	MCB 315	Cells and Tissues Laboratory	2	*	Joanne Manaster	
FA	MCB 316	Intro Eukaryotic Molec Genet	3		Mary Schuler	
FA, SP, SU	MCB 334†	Functional Human Anatomy	5		John Hough	
FA	MCB 400	Cancer Cell Biology	4		Kevin Xiang , Supriya Prasanth Gangadharan	
FA	MCB 401	Cell & Membrane Physiology	3		Claudio Grosman	
SP	MCB 402	Sys & Integrative Physiology	3		M. Joan Dawson , Willem Els, Albert Feng , Ann Nardulli	
FA	MCB 403	Cell & Membrane Physiology Lab	2	*	Carl Malmgren	
SP	MCB 404	Sys & Integrative Physiol Lab	2	*	Carl Malmgren	
SP	MCB 405	Genetics and Genomics	4		David Rivier	
SP	MCB 406	Gene Expression	3		Craig Mizzen , Raven Huang	BIOC 406
SP	MCB 408	Immunology	3		David Kranz	
SP, not '10	MCB 410	Developmental Biology	4		Phillip Newmark	
FA	MCB 412	Cellular Molec Neurobiology	3		Julia George	NEUR 422
SP	MCB 413	Endocrinology	3		Milan Bagchi , Ann Nardulli , Kim Kemper	
FA	MCB 414	Introduction to Neurobiology	3		Mark Nelson	NEUR 404
FA	MCB 416	Neuroethology	3		Albert Feng , Rhanor Gillette	NEUR 426
SP	MCB 419	Brain, Behavior & Info Process	3		Mark Nelson	BIOE 419, BIOP 419, NEUR 419
FA	MCB 421	Microbial Genetics	3		Jeffrey Gardner	
SP	MCB 424	Microbial Biochemistry	3		William Metcalf	
FA	MCB 426	Bacterial Pathogenesis	3		Brenda Wilson	
FA	MCB 428	Bacterial Pathogens Laboratory	2	*	Gail Grabner	
SP	MCB 429	Cellular Microbiology & Disease	3		Steven Blanke	
SP	MCB 430	Molecular Microbiology	3		Andrei Kuzminov	
FA	MCB 431	Microbial Physiology	3		Carin Vanderpool	
SP	MCB 432	Computing in Molecular Biology	3		Gary Olsen	
SP	MCB 433	Viral Pathogenesis	3		Dongwan Yoo and Daniel L. Rock	PATH 433
SP	MCB 434	Food & Industrial Microbiology	3		Scott Martin , M. Miller	FSHN 471
SP	MCB 435	Microbial Ecology & Evolution	3		Rachel Whitaker	

Term (s) Offered	Course	Course Title	Cr Hrs	Lab Course *	Instructor(s)	Cross Listed Courses
SP	MCB 442	Comparative Immunobiology	4		H. Rex Gaskins , Keith Kelley	ANSC 450, PATH 510
SP	MCB 446	Physical Biochemistry	3		Robert Gennis, Satish Nair	BIOC 446, CHEM 472
SP	MCB 460	Regeneration and Medicine	3		Jo Ann Cameron	
SP (odd years only)	MCB 480	Eukaryotic Cell Signaling	3		Jie Chen	
SP	MCB 481	Developmental Neurobiology	3		Lori Raetzman	
NCBO	MCB 484	Model Organisms & Epigenetics	3			
FA, SP	MCB 493†	Special Topics Mol Cell Biol	2	*†	See online Class Schedule , FA 09 JMG and JLM	
FA	BIOC 440B†	Physical Chemistry Principles	4		Robert Gennis, Satish Nair	CHEM 440B
FA, SP	BIOC 455	Technqs Biochem & Biotech	4	*	Gail Grabner	
FA	BIOP 401	Introduction to Biophysics	3		Maria Spies	
SP, not '10	BIOP 470	Computational Chemical Biology	3		Zaida Luthey-Schulten	CHEM 470
FA	NEUR 403	Memory and Amnesia	3		Neal Cohen , L. Yee and Rachael D. Rubin	PSYC 403
FA, SP	NEUR 411†	Bio Psych Lab	4	†	Neal Cohen , Rachael D. Rubin	PSYC 411
SP, not '10	NEUR 413	Psychopharmacology	3		Joshua Gulley , Nioka Lowry	PSYC 413
FA, not '09	NEUR 414	Brain, Learning, and Memory	3		Paul Gold Not offered Fall 2009	PSYC 414
FA, not '09	NEUR 451	Neurobio of Aging	3		Donna Korol Not offered Fall 2009	PSYC 451, KINES 458

FA: Fall; SP: Spring; SU: Summer; NCBO: Not currently being offered on a regular basis.

†MCB 493: There may be specific sections of MCB 493 (JLM, JM1 or JM3) that may count as an advanced course or an advanced lab, but not all will. Please consult an advisor to confirm whether the section of MCB 493 you take will qualify for advanced MCB hours and/or an advanced lab.

†BIOC 440B: Only Section B is approved as an advanced MCB course.

†NEUR 411 has been approved for repeated credit, but only credit hours associated with the first enrollment in the course will be counted as advanced hours toward the MCB degree. This course will *not* count as an advanced MCB lab.

Note: graduate level courses (500- or 600- level) Will NOT count as advanced MCB hours.