

# Tentative Microbiology Course Offerings

Major Core							
Course #	Course Name	Units	Prerequisite	Fall	Winter	Spring	Summer
BIOL 102	Introductory Genetics	4	BIOL 5B (C– or better)	✓	✓	✓	✓
BIOL 107A	Molecular Biology	4	BIOL 5C, CHEM 8C/LC, MATH7B or 9B, PHYS 2C/2LC, BCH 100 or 110A	✓	✓	✓	✓
BIOL/MCBL 121	Introductory Microbiology	4	BIOL 5C, CHEM 8C/LC, PHYS 2C/2LC, MATH7B or 9B, BCH 100 or 110A (may be taken concurrently), or consent of instructor	✓	✓	✓	
BIOL/MCBL 121L	Microbiology Lab	3	BIOL/MCBL 121 (C– or better)		✓	✓	
MCBL 125	Experimental Microbiology	4	UD Standing in MCBL, BIOL 102, BIOL 107A, BIOL/MCBL 121, BIOL/MCBL 121L, or consent of instructor			✓	
Major Electives							
Course #	Course Name	Units	Prerequisite	Fall	Winter	Spring	Summer
BIOL/CBNS 128	Immunology	3	BIOL5C, PHYS2C/2LC, BCH 100 or 110A	✓		✓	✓
BIOL 157	Parasitology	4	BIOL5C, BCH 100 or 110A, one course in statistics	✓			
BIOL 158	Medical Molecular Parasitology	4	BCH 110C or BIOL107A				
CBNS 101	Fundamentals of Cell Biology	4	CHEM8C/LC and BCH 100 or 110A (may be taken concurrently)	✓	✓	✓	✓
ENSC/NEM 120	Soil Ecology	3	BIOL5A/5LA, CHEM1C/1LC, ENSC 100 or consent of instructor	✓			
MCBL/BIOL/PLPA 120	Introduction to Plant Pathology	3	BIOL 5C, CHEM 1C, CHEM 12C, PHYS 2C/2LC, BCH 100 or 110A	✓			
MCBL/BIOL/PLPA 120L	Introduction to Plant Pathology Lab	1	BIOL 120 concurrent enrollment, or consent of instructor, MCBL 121, 124 recommended				
MCBL/BIOL/PLPA 123	Introduction to Comparative Virology	4	BIOL 5C, CHEM 8C/LC, MATH7B or 9B, PHYS 2C/2LC, BCH 100 or 110A, one course in statistics, or consent of instructor			✓	
MCBL/BIOL 124	Pathogenic Microbiology	4	MCBL 121 C– or better		✓		
MCBL 126	Microbiomes	3	MCBL 121 C or better, or consent of instructor			✓	
MCBL 127	Microbial Evolution	4	MCBL 121 and BIOL 107A C or better		✓		
MCBL 141	Public Health Microbiology	4	BIOL5B				
MCBL 197*	Research for Undergraduates	1-4	Consent of instructor, upper division standing	✓	✓	✓	✓
PLPA/BIOL 134	Introduction to Mycology	3	BIOL 5C, PHYS2C/2LC, BCH 100 or 10A, one course in stats, or consent of instructor	✓			
PLPA/BIOL 134L	Intro to Mycology Lab	1	Concurrent enrollment in PLPA/BIOL134L or consent of instructor	✓			
MCBL/ENTM 139	The Evolution of Conflict and Cooperation: Cheaters and Altruists	4	BIOL 5C or consent of instructor	✓			

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\*No more than 4 units of MCBL197 can apply to MCBL upper division requirements. Course is repeatable to a maximum of 9 units.

# Tentative Microbiology Course Offerings

Other Requirements							
Course #	Course Name	Units	Prerequisite	Fall	Winter	Spring	Summer
BCH 162	Advanced Biochemistry Laboratory	5	BCH 15, BCH 110B, BCH 110C, all C– or better, or consent of instructor		✓	✓	
BIOL 107B	Advanced Molecular Biology	3	BIOL 107A or BCH 110C			✓	
BIOL 119	Introduction to Genomics and Bioinformatics	4	BIOL 5C (C– or better), BIOL102, CHEM8C/LC, MATH7B or 9B, PHYS2C/2LC, BCH 100 or 110A, one course in statistics	✓	✓	✓	
MCBL/ENSC 133	Environmental Microbiology	4	BIOL 5C or consent of instructor		✓		
MCBL 190**	Special Studies	1-4	Permission of Instructor and major chairperson	✓	✓	✓	✓
MCBL 198-I***	Individual Internship in Microbiology	1-4	BIOL121/MCBL121, upper division standing, consent of instructor	✓	✓	✓	

Possible Substitutions, not applied to major without prior approval							
Course #	Course Name	Units	Prerequisite	Fall	Winter	Spring	Summer
BIOL 105****	Evolution	4	BIOL5C, MATH9B, PHYS2C/2LC, BCH 100 or 110A, BIOL102, one course in stats or consent of instructor	✓	✓		✓
BIOL 112****	Systematics	4	BIOL5C		✓		
BIOL/NEM 159****	Biology of Nematodes	3	BIOL5C, MATH9B, PHYS2C/2LC, BCH 100 or 110A, BIOL102, one course in stats		✓		

\*\*No more than 4 units of MCBL197 and 190 can be applied toward the upper division and other requirements. MCBL197 repeatable up to a maximum of 9 units.

\*\*\*MCBL198-I is graded on an S/NC basis. No more than 4 units can apply to other requirements. Course is repeatable up to a maximum of 16 units.

\*\*\*\*Substitutions require approval by the Microbiology Steering Committee

*Schedule is subject to change*

*Please consult [catalog.ucr.edu](http://catalog.ucr.edu) for full list of pre-requisites and course descriptions*