

Molecular and Cellular Biology Undergraduate Major Course Checklist

Minimum required courses for MCB Major: 67-72 hours including 21 hours of 300 or 400 level courses in LAS (15-16 hours must come from MCB); 12 hours of advanced level courses in the major must be taken on the UIUC campus. 120 hours minimum required for graduation

Introductory Courses (8 hours)

_____	MCB 150	Molecular and Cellular Basis of Life	4 hours
_____	IB 150	Organismal and Evolutionary Biology	4 hours

Core Courses (13 hours)

_____	MCB 250	Molecular Genetics (lecture)	3 hours
_____	MCB 251	Experimental Techniques in Molecular Biology (lab)	2 hours
_____	MCB 252	Cells, Tissues, and Development (lecture)	3 hours
_____	MCB 253	Experimental Techniques in Cell Biology (lab)	2 hours
_____	MCB 354	Biochemical and Physical Basis of Life (lecture)	3 hours

Supporting Courses

_____	MATH 220 or 221	Calculus I	5 hours
		AND	
_____	MATH 231 or STAT 100	Calculus II Statistics	3 hours

Select one group of inorganic chemistry courses **AND** take the organic lecture and lab:

_____	CHEM 102/103 and CHEM 104/105	General Chemistry I/General Chemistry Lab I and General Chemistry II/ General Chemistry Lab II	8 hours
		OR	
_____	CHEM 202/203 and CHEM 204/205	Accelerated Chemistry II/ Acc. Chemistry Lab I and Accelerated Chemistry III/ Acc. Chemistry Lab II	9 hours
		AND	
_____	CHEM 232	Elementary Organic Chemistry I	3 hours
_____	CHEM 233	Elementary Organic Chemistry Lab I	2 hours

Select one group of physics courses:

_____	PHYCS 101 PHYCS 102	College Physics, Mech & Heat, and College Physics, E & M and Modern Physics	10 hours
		OR	
_____	PHYCS 211 PHYCS 212 PHYCS 213 PHYCS 214	University Physics, Mechanics, and University Physics, Elect & Mag, and University Physics, Thermal Physics, and University Physics, Quantum Physics	12 hours

Advanced MCB courses 15 -16 hours of 300 or 400 level courses (including one lab, excluding MCB 354)
 See http://www.life.uiuc.edu/mcb/undergraduate/approved_list.html for list of approved classes

Semester Taken	Course	Hours	Lab (yes/no)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total MCB Advanced Course Hours		_____	

Additional 5 – 6 hours of 300 or 400 level courses in LAS for an overall total of 21 hours

Semester Taken	Course	Hours	Lab (yes/no)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total LAS Advanced Course Hours (includes MCB advanced hours)		_____	

All UIUC students must satisfy the university composition requirements and non-primary language requirement. Advanced placement hours or course proficiency may be counted toward these requirements. See <http://courses.webtools.uiuc.edu/cis/gened/urbana/2006/Fall/>.

Composition I

Select one of the choices below:

_____	RHET 101 AND RHET 102 OR	6 hours
	RHET 103 AND RHET 104 OR	6 hours
	RHET 105 OR	4 hours
	RHET 108 OR	4 hours
	SPCOM 111 AND SPCOM 112 OR	6 hours
	ESL 114 AND ESL 115	6 hours

Advanced Composition

_____ Select 1 course from
<http://courses.webtools.uiuc.edu/cis/gened/urbana/2006/Fall/ACP.html>

UIUC General Education Requirements Checklist

<u>Humanities & Arts</u>				
Literature & Arts (LA) (Column 1)	1-2 courses	1.		
		2.		
Historical & Philosophical (HP) (Column 1)	1-2 courses	1.		
		2.		
<u>Social & Behavioral Sciences</u>				
Social Sciences (SS) (Column 1)	1-2 courses	1.		
		2.		
Behavioral Sciences (BS) (Column 2)	1-2 courses	1.		
		2.		
<u>Cultural Studies</u>				
Non-West or US Minority Cultures (NW or US) (Column 1)	1-2 courses	1.		
		2.		
Western Cultures (W) (Column 1)	1-2 courses	1.		
		2.		
<u>Natural Sciences & Technology</u> <i>This category will be fulfilled with courses in the MCB/IB Major</i>				
Physical Sciences (PS) (Column 2)	1-2 courses	1.	Chemistry 102	
		2.	Chemistry 103	
Life Sciences (LS) (Column 2)	1-2 courses	1.	MCB 150 or IB 150	
		2.		
<u>Quantitative Reasoning</u> <i>This category will be fulfilled with courses in the MCB/IB Major</i>				
Quantitative Reasoning I (QRI) (Column 2)	1-2 courses	1.	Math 220	
		2.		
Quantitative Reasoning II (QR II) (Column 2)	1-2 courses	1.	Math 230 or Stat 100	
		2.		

-YOU MUST HAVE AT LEAST 5 COURSES FROM COLUMN 1 AND AT LEAST 5 COURSES FROM COLUMN 2

-DO NOT TAKE MORE THAN 2 COURSES IN ANY CATEGORY

-IF A COURSE FALLS UNDER 2 CATEGORIES, THEN IT WILL COUNT TOWARD THE 2-COURSE LIMIT IN BOTH

Students in the Sciences and Letters Curriculum of the College of Liberal Arts and Sciences (LAS) are expected to gain language knowledge equivalent to the completion of the fourth semester of college study in a language.

The LAS Language requirement may be met in any of the following ways:

1. Successfully completing a fourth-semester college-level course in a language other than English;
2. Successful completion, in high school, of the fourth year of a language other than English;
3. Successful completion of the third-semester level in each of two different languages other than English by any combination of high school and college work;
4. Demonstrating proficiency at the fourth-semester level in a language proficiency examination approved by the College of Liberal Arts and Sciences and the appropriate department.

<u>LANGUAGE REQUIREMENT</u>	
_____ 4 Years of Language in High School	
_____ 4 th semester completion of college-level language	Lang: _____
_____ 3 rd semester completion of 2 languages (combination of high school and college work)	Lang 1: _____
	Lang 2: _____
_____ Passed proficiency examination	Date: _____