

Ming Chuan University Department of Biotechnology Course Outline for all students entering in 2016

Course		Credits	Hours	1 <sup>st</sup> year				2 <sup>nd</sup> year				Note
				Fall		Spring		Fall		Spring		
				class	lab	class	lab	class	lab	class	lab	
General Required Courses	Applied English Communication (I)	2	2	2								
	Applied English Communication (II)	2	2			2						
	Subtotal	4										
Professional Required Courses	Seminar 1	1	1	1								
	Seminar 2	1	1			1						
	Seminar 3	1	1					1				
	Seminar 4	1	1						1			
	Special Topics of Biotechnology	2	2	2								
	Advanced Biochemistry	3	3	3								
	Research Methodology in Biotechnology1	2	2	2								Core lab.
	Research Methodology in Biotechnology2	2	2			2						Core lab.
	Subtotal	13										
Professional Elective Courses	Molecular Biotechnology Program	Structure biology	2		2							1. Professional Electives can be selected from two programs of study.  2. Students must first complete one of these
		Plant biochemistry	2		2							
		Special Issues for Virology	2		2							
		Special topics in genomics	2				2					
		Cancer biology	2				2					
		Special topics in microbe-cell interactions	2				2					
		Enzyme and protein engineering	2				2					
		Aging Physiology	2						2			



Notes	<ol style="list-style-type: none"><li>1. Courses from focused course programs set up by any individual Health Technology department or cooperatively between HT and other Schools can be regarded as the BT professional elective courses under the condition of approval by the department chair. Professional courses selected from other Schools also have to be approved by the chair, otherwise they cannot be counted toward students' final grades.</li><li>2. Our masters' students are required to earn at least 32 credits (from both required and elective courses) before they can graduate. Moreover, according to MCU regulations, our masters' students must pass all degree-related exams and the Basic Professional Capacity Test before they can graduate.</li><li>3. In accordance with the MOE standard, it is required that MCU graduate students reach the CEFR B1 English Proficiency Level before graduation (According to the school's regulations, students who need to achieve more than 550 on their TOEIC test or the one who pass the oral exam on GEPT Intermediate Test, etc.) Any student who does not reach the standard is required to complete two 2-credit Applied English courses.</li><li>4. The newly added elective courses in this academic year can be applied retroactively to students who entered the university prior to the 2016 academic year.</li><li>5. Professional electives can be selected from two study programs. Students must complete one of the study programs, consisting of at least 3 courses. These courses can be applied retroactively to students who entered the university prior to the 2016 academic year.</li></ol>
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