

Ming Chuan University Applied Computing Program Course Outline for all students entering in 2015 201506.19 P.1 of 7

Course	Credits	Hours	1st year (Year 104)		2nd year (Year 105)		3rd year (Year 106)		4th year (Year 107)		Note					
			Fall		Spring		Fall		Spring							
			class	lab	class	lab	class	lab	class	lab		class	lab			
Chinese Literature: Appreciation and Creative Writing	4										Choose two from "Humanities & Arts" category as substitutions					
Practical English 1-4 Business Communication 1-2 Workplace English 1-2	8										Choose "English Reading and Composition-1", "English Reading and Composition-2" and "Writing in the Professions" as substitutions					
General Education	12										Choose four from "Mathematics and Science" category, "Social Science" category and "Humanities & Arts" category as substitutions					
Subtotal	24															
Language	Chinese Literature: Appreciation and Creative Writing 1-2	6	6	3	3						Only applied to local students					
	Basic Mandarin Conversation I-II	6	6	3	3						Only applied to Overseas Chinese students and International students					
	English Reading and Composition I	3	3	3							Substitutions for Practical English 1-4, Business Communication 1-2, Workplace English 1-2					
	English Reading and Composition II	3	3		3											
	Writing in the Professions	3	3			3										
Computer	Applied Information Technology: Office Software	3	4	3	1											
	Applied Information Technology: Data Processing	3	4		3	1										
Physical Education 1-6	0	12	2		2		2		2							
Subtotal	27	41	14	1	14	1	5	0	2	0	2	0	0	0	0	0

MCU Core Required Courses

Course		Credits	Hours	1st year (Year 104)				2nd year (Year 105)				3rd year (Year 106)				4th year (Year 107)				Note
				Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring		
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Social Science	Psychology	3	3	3														Substitutions for "General Education" Category	Choose at least one course	
	Sociology	3	3			3														
	Economics	6	8	3	1	3	1													
	Politics	3	3			3														
	Management	3	3			3														
	Introduction to Law	3	3						3											
	Special Topics on Social Science	3	3						3											
Mathematics and Science	Biology	3	3	3														Substitutions for "General Education" Category	Choose at least one course	
	Physics	3	3	3																
	Chemistry	3	3			3														
	Accounting	6	10	3	2	3	2													
	Calculus	6	8	3	1	3	1													
	Statistics	6	8					3	1	3	1									
	Introduction to Science	3	3					3												
	Environmental Dynamics	3	3							3										
	Marine Biology	3	3							3										
	Special Topics on Science	3	3							3										
Human Evolution	3	3							3											



Course	Credits	Hours	1st year (Year 104)				2nd year (Year 105)				3rd year (Year 106)				4th year (Year 107)				Note
			Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring		
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
General Education Courses	Second Foreign Language	3	3							3								Substitutions for "General Education" Category	Choose at least one course
	Educational Psychology	3	3							3									
	Etiquette and Communication	3	3					3											
	Special Topics on Globalization	3	3							3									
	Special Topics on Asia	3	3							3									
	Special Topics on International Relations	3	3							3									
	Special Topics on Cross-strait	3	3							3									
	Special Topics on Negotiation	3	3							3									
	The Economics of Environmental Pollution	3	3							3									
	Intermediate Mandarin Conversation I	3	3					3											
	Intermediate Mandarin Conversation II	3	3							3									
Subtotal	147	157	39	4	33	4	12	1	63	1	0	0	0	0	0	0	0		
Subtotal Core Required Course Credits 12	12	12																Must Complete 12 Core Elective Course Credits before graduation	
Professional Required Courses	Basic English Listening and Speaking	0	6	3														Basic English Listening and Oral Communication Students who fulfill IC entrance English proficiency requirement or with an English proficiency certificate of at least TOEFL 500 / IBT61, IELTS 5 or GEPT – Intermediate Level, or document	
	Basic English Reading and Grammar	0	6			3													
	Calculus(1)	3	4	3	1														
	Calculus(2)	3	4			3	1												
	Programming Design(1)	3	5	3	2														
	Programming Design(2)	3	5			3	2												
	Accounting (1)	3	5					3	2										
	Magnagement	3	3					3											
	Data Structure	3	5					3	2										
Statistics (1)	3	4						3	1										



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Course	Credits	Hours	1st year (Year 104)				2nd year (Year 105)				3rd year (Year 106)				4th year (Year 107)				Note	
			Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring			
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab		
Data Mining	3	3									3									
System Analysis and Design	3	3									3									
Managerial Mathematics	3	3									3									
Human Resource Management	3	3										3								
Network Planning & Management	3	3										3								
Practical Data Analysis	3	3										3								
Program Design for Business Intelligence	3	3										3								
Bioinformatics	3	3										3								
Supply Chain Management	3	3										3								
Automata and Formal Language	3	3										3								
Computational Intelligence	3	3										3								
UNIX Programming	3	3										3								
Electronic Commerce	3	3										3								
Software Engineering Practice	3	3										3								
Interactive Media Techniques	3	3										3								
Windows Programming	3	3										3								New Course
Knowledge Management	3	3												3						
Enterprise Resource Planning	3	3												3						
Computer Animation	3	3												3						
Network Information Security	3	3												3						
Software Engineering Tools	3	3												3						
Network Programming	3	3												3						
Video Processing	3	3												3						
Strategy Management	3	3															3			
Information Ethics	3	3															3			
Distributed System	3	3															3			
International Business Management	3	3															3			
Organizational Behavior	3	3															3			
Software Verification and Validation	3	3															3			
Subtotal	153	153	0	0	0	0	12	0	27	0	36	0	39	0	21	0	21	0		
Choose at least Elective credits	24	24																		

Professional Elective Courses

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Other Electives	Military Training - 1	0	2	2															Single Semester Course
	Military Training - 2	0	2			2													Single Semester Course
	Military Training - 3	4	2					2											Single Semester Course
	Military Training - 4	0	2						2										Single Semester Course
	Subtotal	0	8	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	0
<b>Subtotal College Required Course Credits</b>		<b>33</b>																	
<b>Subtotal Professional Required Credits</b>		<b>48</b>																	
<b>Subtotal Professional Elective Credits</b>		<b>24</b>																	
<b>Other Elective Credits</b>		<b>23</b>																	
<b>Total Credits</b>		<b>128</b>																	

Note	<ol style="list-style-type: none"> <li>Students may choose any other programs or departments courses for up to 23 credits to fulfill program completion requirements ; take non English taught courses need approval from the program director.</li> <li>Additional course credits in general education or teacher education program cannot be counted in the total number of credits required for obtaining a Bachelor’s degree.</li> <li>Students have to take at least 12 core elective credits before graduation; it should include at least one subject from “Social Sciences”, one subject from “Natural Sciences &amp; Mathematics”, one subject from “Humanity &amp; Arts”, one subject from “Cross Field General Education Category”, one subject from “free selective”.</li> <li>Students earned more than 12 credits of college core electives, the amount could be count as free elective credits.</li> <li>Professional required and elective credits of each program can not be counted as IC core elective credits.</li> <li>If students need to repeat a required course, the chair of the department can assign other courses which have the same course name or the same content as a substitute. These courses can be counted toward graduation credit.</li> <li>International freshmen or first-year students can waive “Basic English Listening and Oral Communication” and “Basic English Reading and Grammar” if meeting one of the following conditions: (1) IC entrance English proficiency requirement, (2) certificate of TOEFL 500/ IBT61, (3) IELTS 5, (4) GEPT – Intermediate Level, (5) document indicating English as the language of instruction in the previous level of education, (6) English as the first language, (7)English as the official language .</li> <li>International freshmen or first-year students who achieve higher English proficiency level (TOEFL 580 / IBT 92 or IELTS 6) can apply to waive “English Reading and Composition-I” and “English Reading and Composition-II” and take other language related course; however, the approval from program chair is required.</li> <li>Before graduation from Ming Chuan University, students who hold (1) Form-5 high school diploma or (2) high school equivalent status for less than two years before admitted to MCU are required to take at least a total of 12 credits of elective courses using English as the language of instruction.</li> <li>In accordance with MCU General Provisions for Study, all undergraduate students must pass the requirements for Service-Learning, English Proficiency, Information Technology Proficiency, Chinese Proficiency, Sports Ability, and Basic Professional Skills in order to graduate.</li> <li>This course outline applies to students entering in Fall 2015. Elective courses on this course curriculum university prior to Fall 2015.may be counted toward total graduation credits by students who entered the university prior to Fall 2015.</li> </ol>
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