

Curriculum of International Master Program, 2023

Department of Industrial Engineering and Management, Cheng Shiu University

School system	Master															
Class	International Master Program															
Course setting	112.04.14				系課程及選課輔導委員會議通過											
	112.05.17				院課程委員會議通過											
	112.05.29				校課程委員會議通過											
	112.05.29				教務會議通過											
The number of credits for graduation / Study period	Master's students need to pass 30 credits at least. (The study period is 1 to 4 years)															
Required courses / Elective courses	Course credits	Related Legislation / Remark														
Required courses	9 credits	Advanced Production and Operations Management/ 3 credits, Thesis/ 6 credits, Seminar/ 0 credit in four semesters, Research Methods/ 0 credit														
Elective courses	21 credits	<ol style="list-style-type: none"> Elective courses are divided into two fields. 「Advanced Quality Management」 and 「Statistical Data Analysis」 are core courses, students have to complete those two courses in order to graduate. Students with TOEIC below 375 should take the Scientific English (I), and those with TOEIC below 550 should take the Scientific English (II); those who do not reach B1 in the Chinese Test should take the Chinese Teaching courses. 														
Number of credits taken each semester	The maximum of 18 credits each semester. Please do not less than 6 credits each semester in the first academic year.															
Remark	N/A															
1st Fall				1st Spring												
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours									
Required Courses	M06A01	Seminar (I)	0/2	Required Courses	M06A02	Seminar (II)	0/2									
Required Courses	M06A03	Advanced Production and Operations Management	3/3	Required Courses	M06A05	Research Methods	0/2									
Required Courses	M06A16	Volunteer Services and Social Responsibility (I)	0/1	Required Courses	M06A17	Volunteer Services and Social Responsibility (II)	0/1									
2nd Fall				2nd Spring												
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours									
Required Courses	M06A03	Seminar (III)	0/2	Required Courses	M06A04	Seminar (IV)	0/2									
Required Courses	M06A18	Volunteer Services and Social Responsibility (III)	0/1	Required Courses	M06A19	Volunteer Services and Social Responsibility (IV)	0/1									
				Required Courses	M06B03	Thesis	6 Credits									
Fall				Spring												
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours									
Language	M06A12	Chinese Teaching (I)	2/2	Language	M06A13	Chinese Teaching (II)	2/2									
Language	M06A14	English for Science and Tech (I)	2/2	Language	M06A15	English for Science and Tech (II)	2/2									

Operation Management field Fall				Operation Management field Spring			
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours
Elective Courses	M06N08	Advanced Quality Management	3/3	Elective Courses	M06N15	Manufacturing Management	3/3
Elective Courses	M06N56	International Supply Chain management	3/3	Elective Courses	M06N13	Inventory Management	3/3
Elective Courses	M06N05	Advanced Engineering Economy	3/3	Elective Courses	M06N57	Special Theory of Human Factors Engineering	3/3
Elective Courses	M06N40	Scheduling Theory and Strategy	3/3	Elective Courses	M06N19	Six Sigma	3/3
Elective Courses	M06N52	Seminars of Project Management	3/3	Elective Courses	M06N54	Special Theory of Reliability Engineering	3/3
Elective Courses	M06N53	Special Theory of Human Resource Management	3/3	Elective Courses	M06N43	Automatic Production System	3/3
Elective Courses	M06N23	Marketing Strategy	3/3	Elective Courses	M06N28	Performance Evaluation and Management	3/3
Elective Courses	M06N60	The Application of AIot	3/3	Elective Courses	M06N44	Operation Risk Management	3/3
Elective Courses	M06N62	IoT Application	3/3	Elective Courses	M06N51	Seminars of Industrial Management	3/3
Elective Courses	M06N20	Industrial Management and Analysis	3/3	Elective Courses	M06N66	Reverse Engineering and CAM	3/3
Elective Courses	M06N65	Advanced Material Science	3/3	Elective Courses	M06N63	SMEs & Enterpreneurship	3/3
Elective Courses	M06N69	Seminars of Marketing Management	3/3	Elective Courses	M06N70	Consumer Behavior	3/3
Elective Courses	M06N64	New Product Development Management	3/3	Elective Courses	M06N71	International Business Management	3/3
Decision Analysis field Fall				Decision Analysis field Spring			
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours
Elective Courses	M06N49	Statistical Data Analysis	3/3	Elective Courses	M06N09	Design of Experiments	3/3
Elective Courses	M06N55	Special Theory of Operations Research	3/3	Elective Courses	M06N03	Fuzzy Theory and Applications	3/3
Elective Courses	M06N01	Stochastic Model and Application	3/3	Elective Courses	M06N24	Multivariate Analysis	3/3
Elective Courses	M06N38	Creative Thinking	3/3	Elective Courses	M06N41	Data Mining	3/3
Elective Courses	M06N30	Regression Analysis	3/3	Elective Courses	M06N42	Multiple Objective Programming	3/3
Elective Courses	M06N34	System Simulation	3/3	Elective Courses	M06N50	Theory of Inventive Problem Solving	3/3
Elective Courses	M06N68	Taguchi Method Application	3/3				