Curriculum of International Master Program, 2021
Department of Industrial Engineering and Management, Cheng Shiu University

Minimum credits required for graduation: 30 credits; Required courses: 9 credits; Elective courses: at least 21 credits

Required Courses		Course Title	Course Code	Course Title	Course Code
		1st Fall		**1st Spring**	
		Seminar (I) (0 Credits / 2 Hours)	M06A01	Seminar (II) (0 Credits / 2 Hours)	M06A02
		Advanced Production and Operations Management (3 Credits/3 Hours)	M06403	Research Methods (0 Credits / 2 Hours)	M06A05
		Chinese Teaching (I) (2 Credits / 2 Hours)	M06A12	Chinese Teaching (II) (2 Credits / 2 Hours)	M06A13
		Scientific English (I) (2 Credits / 2 Hours)	M06A14	Scientific English (II) (2 Credits / 2 Hours)	M06A15
		2nd Fall		**2nd Spring**	
		Seminar (Ⅲ) (0 Credits / 2 Hours)	M06A03	Seminar (IV) (0 Credits / 2 Hours)	M06A04
				Thesis (6 Credits)	M06B03
		Fall		**Spring**	
Elective Courses (3 Credits/ 3 Hours)	Operation Management field	Advanced Quality Management	M06N08	Manufacturing Management	M06N15
		International supply chain management	M06N56	Inventory Management	M06N13
		Advanced Engineering Economy	M06N05	Special Theory of Human Factors Engineering	M06N57
		Scheduling Theory and Strategy	M06N40	Six Sigma	M06N19
		Seminars of Project Management	M06N52	Special Theory of Reliability Engineering	M06N54
		Special Theory of Human Resource Management	M06N53	Automatic Production System	M06N43
		Marketing Strategy	M06N23	Performance Evaluation and Management	M06N28
		The Application of AIot	M06N60	Operation Risk Management	M06N44
		IoT Application	M06N62	Seminars of Industrial Management	M06N51
		Industrial Management and Analysis	M06N20	Reverse Engineering and CAM	M06N66
		Advanced Material Science	M06N65	Mechanics and Robot Application	M06N67
	Decision Analysis field	Statistical Data Analysis	M06N49	Design and Analysis of Experiments	M06N09
		Special Theory Operations Research	M06N55	Fuzzy Theory and Applications	M06N03
		Stochastic Model and Application	M06N01	Multivariate Analysis	M06N24
		Creative Thinking	M06N38	Data Mining	M06N41
		Regression Analysis	M06N30	Multiple Objective Programming	M06N42
		System Simulation	M06N34	Theory of Inventive Problem Solving	M06N50
		Taguchi Method Application	M06N68	Analytic Hierarchy Process Application	M06N69

Note1: 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.

Note2: 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.