

Curriculum of International Master Program, 2022

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
		2nd Fall		2nd Spring	
		Seminar (III) (0 Credits / 2 Hours)	M06A03	Seminar (IV) (0 Credits / 2 Hours)	M06A04
		Volunteer Services and Social Responsibility (I) (0 Credits / 1 Hour)	M06A20	Volunteer Services and Social Responsibility (II) (0 Credits / 1 Hour)	M06A21
				Thesis (6 Credits)	M06B03
		Fall		Spring	
Elective Courses	Language (2 Credits/ 2 Hours)	Chinese Teaching (I)	M06A12	Chinese Teaching (II)	M06A13
		English for Science and Tech (I)	M06A14	English for Science and Tech (II)	M06A15
	Operation Management field (3 Credits/ 3 Hours)	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	SMEs & Entrepreneurship	M06N63
		Seminars of Marketing Management	M06N69	Consumer Behavior	M06N70
		New Product Development Management	M06N64	International Business Management	M06N71
	Decision Analysis field (3 Credits/ 3 Hours)	Statistical Data Analysis	M06N49	Design of Experiments	M06N09
		Special Theory of 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			

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.