Material Chemistry Technology (EMI), Micro Credential(8 Credits)

ENGS-U-MP-002

Admitted Academic Year：2026

Program's Descriptions：

Inspire students' ability to solve mechanical problems related to materials and structures through the course, and simulate the discussion of various applications of materials, as well as the creative application thinking and design of different types of materials as the main axis, analyze the results of experiments, and extend the application of the calculation results Analysis of the results of experimental literature related to molecular spectroscopy. Through the course, all participating students have a high degree of interest in materials science and engineering.

Program's Curriculum：

Required/ Elective	Course Number	Course name	Credit	Course Clusters
Elective	ENGS2014	ORGANIC CHEMISTRY(1)	3	1.基礎
Elective	ENGS2019	ORGANIC CHEMISTRY(2)	2	1.基礎
Elective	FCME3041	INTRODUCTION TO NANOTECHNOLOGY	3	1.基礎
Elective	EES6035	SPECIAL TOPICS IN ENVIRONMENTAL CHEMISTRY	3	1.基礎
Elective	CHE6076	ADVANCED PHYSIC CHEMISTRY	3	1.基礎
Elective	MSE3085	MATERIAL MODELING AND SIMULATION	3	2.進階
Elective	OPT4023	SIMULATION AND ANALYSIS OF MOLECULAR SPECTROSCOPY	3	2.進階
Elective	MSE6007	TRANSMISSION ELECTRON MICROSCOPY	3	3.應用
Elective	GEST6023	FUEL CELLS: THEORY AND PRACTICE	3	3.應用

Total credits： 8　　Required credits： 0　　Elective credits： 8

Industrial Classification：

C00	Manufacturing

Guidelines for Program Completion：

Management Unit： College of Engineering and Science / College of Engineering and Science