

Curriculum for the Department of Mechanical Engineering(Intelligent Machinery Divison), Chung Hua University

Apply for 111 class

	Freshman				Sophomore				Junior				Senior			
	Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring	
Common Required Courses (6 credits)	physical education (I)	0/2	physical education (II)	0/2												
	Freshman English(I)	2/2	Freshman English(II)	2/2	Freshman English(III)	1/2	Freshman English(IV)	1/2								
General Education Courses (22 credits)	Core course	2/2	Core course	2/2	Core course	2/2	Elective course	2/2	Elective course	2/2	Elective course	2/2				
	Core course	2/2	Core course	2/2	Core course	2/2	Elective course	2/2	Elective course	2/2						
Required Courses (59 credits)	Engineering Graphics & Computer Practice	1/3	Mechanism Design and Drawing & Practice	1/3	Mechanical Material and Manufacture	3/3	Mechanical and Electrical Project Experiment	1/3	Machine Design	3/3	Mechanical and Electrical Conformity	3/3				
	Experimental Physics (I)	1/3	Statics and Mechanics of Materials	3/3	Engineering Dynamics	2/2	Introduction of machining tools	3/3	Project of Precision Machines	3/3	Senior Projects	1/3				
	Programming Language	3/3	Experimental Physics (II)	1/3	Electrical Engineering	3/3	Thermal and Fluid Engineering (I)	2/2	Thermal and Fluid Engineering (II)	2/2						
			Calculus	4/4	Programmable Logic Controller	2/2	Engineering statistics	3/3								
			Physics	3/3	Theory of Mechanisms	2/2										
				Engineering Mathematics	3/3											
Required Elective Courses (4 credits)	Creativity Engineering	2/2					Introduction of Precision Machines	2/2								
	3D Printer Technology	3/3														
Division Required Elective Courses (at least 3 courses)									Sensor Principle and Application	2/2	Machine Vision and Inspection	2/2				
									Precision Machining	2/2	Precision Measurement	2/2				
											Light Mechanical and Electrical Conformity System Design	2/2				
Professional Elective Courses							Introduction of Micro-processor	3/3	Computer-Aided Manufacturing	3/3	Mechanical Vibration Analysis and Testing Technology	3/3	Tolerance Design	2/2	Lasers and Their Applications	3/3
							Introduction to Smart Automation	2/2	Cutting principle	3/3	Pneudraulic Principle and Application	3/3	Denign of MEMS	3/3	Semiconductor Fabrication and Packaging	3/3
							Introduction of machining tools	3/3	Introduction to Mold Engineering	3/3	Computer Aided Engineering Analysis	3/3	Non-traditional Machinning	2/2	Quality Control and Reliability Engineering	3/3
							Introduction to aeronautical engineering	2/2	Automatic Control Systems	2/2	Principles & Applications of Precision Machine Design	3/3	Computer Numerical	3/3	Business Experience	3/3
								flight principle and simulator Implementation	2/2	Intelligent robot	2/2	Manufacturing Practice	3/3	Factory Practice	3/3	
								Industrial Hygiene	2/2	Airplane structure and composite material process	2/2	Business Ethics	3/3	Work Ethics	3/3	
										Aircraft Engines and Gas Turbines	2/2	Internships	3/3	Overseas Professional Internship	2/2	

Required Credits : 81 (including 53 credits of professional required courses, 6 credits of English course, 22 credits of general education courses which include 12 credits of core general education courses and 10 credits of elective general education courses.)

Elective Credits: 47 (including 7 credits of department required courses, 6 credits of division required courses, 25 credits of department elective course and 9 credits in other Department)

Graduation Credits: 128 credits