

MUST Curriculum Planning for Undergraduate Students for Academic Years 2024-2027,
Department of Mechanical Engineering

1st year(2024)						2nd year(2025)						3rd year(2026)					
	Course	1st semester		2 nd semester			Course	1st semester		2 nd semester			Course	1st semester		2 nd semester	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.
MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses					
	Classified general Education	2	2	2	2												
	Physical Education	2	2	2	2												
	Subtotal	6	6	6	6		Subtotal	2	2	2	2		Subtotal				
School Professional Required Courses	Applied English(I)(II)	2	2	2	2	School Professional Required Courses	Applied English(III)(IV)	2	2	2	2	School Professional Required Courses					
	Applied Chinese(I)(II)	2	2	2	2												
	Introduction to Computers and Programming	2	2														
	Introduction to Artificial Intelligence			2	2												
	Calculus (I) (II)	3	3	3	3												
	Physics (I) (II)	2	2	2	2												
	Subtotal	11	11	11	11		Subtotal	2	2	2	2		Subtotal				
Compulsory Courses	Ethics for Engineers	2	2			Compulsory Courses	Computer Aided Mechanical Drafting	2	2			Compulsory Courses	Special Topics Practice	1	1	1	1
	Manufacturing Processes	2	2				Engineering Mathematics (I)	3	3				Material Testing	2	2		
	Shop Practice (I)(II)	3	3	3	3		Applied Mechanics (Statics)	2	2				CNC Machine Tools Practice	3	3		
	Mechanical Drawing			2	2		Mechatronics and Practice	2	2				Design of Machine Elements	3	3		
							Basic Mechatronics	3	3				Precision Instrument and Parts Inspections			2	2
							Dynamics			2	2						
							Mechanics of Materials (I)			2	2						
							Mechanism			3	3						
							Materials of Mechanical Engineering			3	3						
							Mechatronics and Practice			2	2						
							Automatic Control Practice			2	2						
							Electronics Practice			2	2						
	Subtotal	7	7	5	5		Subtotal	12	12	16	16		Subtotal	9	9	3	3
Elective Courses						Elective Courses					Elective Courses	Intelligent Manufacturing Practice	3	3			
												The Microprocessor Practice	3	3			

4th year(2027)					
	Course	1st semester		2 nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	Subtotal				
School Professional Required Courses					
	Subtotal				
Compulsory Courses					
	Subtotal	0	0	0	0
Elective Courses	Off-Campus Practice Training			9	9
	Automatic Optical Inspection Technology	3	3		
	Mold Flow Analysis	3	3		
	Introduction to Nanotechnology	3	3		
	Computer-Aided Engineering	3	3		
	Application of the Measurement Technology	3	3		
	Practice in Solar Thermal Energy	3	3		
	Human Machine Interface (HMI) Practice	3	3		
	Materials Science and Engineering	3	3		
	The Theory of Inventive Problem Solving	3	3		
	CAD/CAM Practice and Application	3	3		
	Practices of Interdisciplinary Creativity	3	3		
	Creative Design of Mechanical Devices			3	3
	Computer-Aided Mold Design			3	3
	Practice of Automatic Precision Machinery Design			3	3
	Theory and Practice of Mechanical Vibrations			3	3
Techniques in multi-axis machine tool			3	3	

Cr./hr.=Credit/hour

【Remarks】

- 1.Minimum graduation credits: 128 credits, including 34 elective credits (at least 22 credits for this major, the rest can be other departments).
- 2.The first, second, and third grade, students must take 16-30 credits each semester, and 9-30 credits each semester in the 4th grade.
- 3.Elective courses for listed are subject to change if necessary.
- 4.According to university regulations, students are required to meet the graduation requirement of basic proficiency and professional skills.
- 5.For off-campus internship courses, please follow the relevant implementation regulations.
- 6.Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent study of the sophomore level of the ROC's high school, or with a high school equivalent degree, who are studying for a bachelor's degree, the minimum graduation credits are 140, and the study period can be extended by 3 academic years.