

Department of Mechanical Engineering

Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program	Four-year technical college program of the Day Division								
Group	Mechanical and Electrical Group								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum		112.04.18						
	College Curriculum		112.05.17						
	University Curriculum		112.05.29						
	Academic Affairs		112.05.29						
Graduation Credits /Study Duration	At least 128 credits required (normally 4 years).								
Credit Load per Semester	Students in Grades 1 and 2 must take no fewer than 16 credits and no more than 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.								
Required and Elective	Credits		Subject Category		Credits				
Required	87 Credits		General Education		22 Credits				
			Major Required		65 Credits				
			College Major		0 Credits				
Elective	41 Credits		General Education		8 Credits				
			Major Elective		33 Credits				
Other Regulations									
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).								
First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496104	Chinese(1)	2/2		General Education	496204	Chinese(2)	2/2	
General Education	492001		2/2		General Education	496504	Human Rights and Legal	2/2	
General Education	4912A0	physical education (1)	1/2		General Education	492002	English (II)	2/2	
General Education	490104	Community Service and Learning(1)	0/1		General Education	4912B0	physical education (2)	1/2	
General Education	497A00		2/2		General Education	490204	Community Service and Learning(2)	0/1	
Major Required	404C03	Physics(1)	3/3		General Education	497B00		2/2	
Major Required	404C01	Calculus (1)	3/3		Major Required	404C04	Physics(2)	3/3	
Major Required	404C60	Introduction and Practice of Mechanical Engineering	2/3		Major Required	404C05	Physics and Laboratory	1/2	
Major Required	404C06	Chemistry	3/3		Major Required	404C02	Calculus(2)	3/3	
Major Required	404079	Computational Thinking and Creative Programming	2/3	Computer Course	Major Required	404C11	Statics	3/3	
20 Credits, 24 Hours					19 Credits, 22 Hours				

[illegible]

23 Credits, 26 Hours					21 Credits, 25 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	492104	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1	
Major Elective	404Q01	Industrial Management	2/2		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	
Major Elective	404Q12	Non-traditional Manufacturing	2/2		Major Required	404C80	Proficiency Assessment of Mechanical and Mechatronic Technology	3/3	
Major Elective	404Q18	Computer-Aided Design	3/3	Computer Course	Major Elective	404Q23	Reverse Engineering	2/2	
Major Elective	404Q20	Introduction to Semiconductor Manufacturing Technology	2/2		Major Elective	404Q29	Air-Conditioned Engineering	2/2	
Major Elective	404Q46	Technology of CNC Machine Design	2/2		Major Elective	404Q49	Opto-Mechatronics Systems	2/2	
Major Elective	404Q47	Welding Engineering and Practice	2/2		Major Elective	404Q50	Engineering Statistics and Quality Management	2/2	
Major Elective	404Q48	Heat Engine Engineering and Application	2/2		Major Elective	404Q51	Plastic Working	2/2	
Major Elective	404Q79	Labview Designs and Practices of Virtual Instrument	3/3		Major Elective	404Q52	CNC Machine Design and Analysis	2/2	
Major Elective	404Q81	Intelligent practice of production line (1)	3/3		Major Elective	404Q53	Nano Engineering and Applications	2/2	
Major Elective	404Q86	Principles and Application of Robotic Arm	2/2		Major Elective	404Q54	Introduction of Electronics Cooling Technology	2/2	
					Major Elective	404Q78	Dynamic System Feedback Control Analysis	3/3	
					Major Elective	404Q80	English for Engineering	2/2	
					Major Elective	404Q82	Intelligent practice of production line (2)	3/3	
					Major Elective	404Q87	Semester Off-campus Internship	9/9	
23 Credits, 25 Hours					36 Credits, 38 Hours				