

Department of Mechanical Engineering

Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Program	Four-year technical college program of the Department for Division of Continuing								
Group	None								
Class Type	Industry - Academia Collaboration Program								
Special Program	None								
Curriculum Committee	Department Curriculum	111.05.03							
	College Curriculum	111.05.20							
	University Curriculum	111.06.06							
	Academic Affairs	111.06.06							
Graduation Credits /Study Duration	At least 128 credits required (normally 4 years).								
Credit Load per Semester	The minimum number of credits per semester is 9 credits.								
Required and Elective	Credits		Subject Category			Credits			
Required	98 Credits		General Education			8 Credits			
			Major Required			90 Credits			
			College Major			0 Credits			
Elective	30 Credits		General Education			8 Credits			
			Major Elective			22 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 Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
General Education	904030	Chinese (1)	2/2		General Education	904034	Chinese (2)	2/2	
General Education	904031	English (1)	2/2		General Education	904035	English (2)	2/2	
General Education	904BA1	Organization Ethics & Culture	2/2		General Education	904CA1	Environmental Protection And Life	2/2	
Major Required	904D03	Mechanical Engineering Drawing	3/3		Major Required	904D05	Applied Mechanics	3/3	
Major Required	904D30	Calculus	3/3		Major Required	904D07	Computer-aided Drawing	3/3	Computer Course
Major Required	904D37	Factory Practices(1)	4/4		Major Required	904D38	Factory Practices (2)	4/4	
16 Credits, 16 Hours					16 Credits, 16 Hours				
First Semester, Second Year					Second Semester, Second Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes

General Education	904AA1	Logic and thinking	2/2		General Education	904DA1	Sport and Physical Fitness	2/2	
Major Required	904D10	Mechanics of Materials	3/3		Major Required	904D15	Introduction to Programming	3/3	Computer Course
Major Required	904D11	Electronics Circuit and Practice	3/3		Major Required	904D31	Advanced Numerical Machine Control and Practice	3/3	
Major Required	904D32	Kinematics of Machines	2/2		Major Required	904D33	Material Science	2/2	
Major Required	904D39	Factory Practices(3)	4/4		Major Required	904D40	Shop Praticice(4)	4/4	
Major Elective	904Q17	Introduction of CNC Machine Design	2/2		Major Elective	904Q15	Principle of Machine Design	2/2	
16 Credits, 16 Hours					16 Credits, 16 Hours				
First Semester, Third Year					Second Semester, Third Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	904D16	Experiments in Materials Science	3/3		Major Required	904D18	Pneumatic and Hydraulic Practice	3/3	
Major Required	904D19	Computer-Aided Engineering Analysis	3/3	Computer Course	Major Required	904D35	Sensor Theory & Applications	3/3	
Major Required	904D34	Introduction of Automation	3/3		Major Required	904D36	Computer-Aided Manufacturing and Practice	3/3	Computer Course
Major Required	904D41	Factory Practices(5)	4/4		Major Required	904D42	Factory Practices(6)	4/4	
Major Required	904D45	Computer-Aided Design	3/3	Computer Course	Major Elective	904Q18	Reverse Engineering and Practice	3/3	
16 Credits, 16 Hours					16 Credits, 16 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	904D22	Programming Controller and Application	3/3		Major Required	904D44	Factory Practices(8)	4/4	
Major Required	904D27	Precision Measurement And Inspection	3/3		Major Required	904D46	Mechatronics	3/3	
Major Required	904D43	Factory Practices(7)	4/4		Major Elective	904Q10	Non-traditional Manufacturing	3/3	
Major Elective	904Q07	Precision Measurement And Inspection	3/3		Major Elective	904Q20	Computer Integrated Manufacturing	3/3	
Major Elective	904Q19	Industrial Management	3/3		Major Elective	904Q21	Opto-Mechatronics Systems	3/3	
16 Credits, 16 Hours					16 Credits, 16 Hours				