Department of Industrial Engineering and Management
Curriculum Requirements for Enrollees in the Academic Year 110 (Fall 2021)

Program	Four-year technical college program of the Day Division			
Group	None			
Class Type	Regular Class			
Special Program	None			
Curriculum Committee	Department Curriculum			
	College Curriculum			
	University Curriculum	110.06.07		
	Academic Affairs	110.06.07		
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	86 Credits	General Education	16 Credits
		Major Required	70 Credits
		College Major	0 Credits
Elective	42 Credits	General Education	8 Credits
		Major Elective	34 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	406043	Chinese (I)	2/2		General Education	406044	Chinese (II)	2/2	
General Education	400E00	English(I)	2/2		General Education	400F00	English(II)	2/2	
General Education	406087	Community Service & Learning(1)	0/1		General Education	406088	Community Service & Learning(2)	0/1	
General Education	400A00	physical education (1)	1/2		General Education	400B00	physical education (2)	1/2	
General Education	300A00	General Courses (I)	2/2		General Education	300B00	General Courses (II)	2/2	
Major Required	406497	Physics	3/3		Major Required	406431	Calculus (II)	3/3	
Major Required	406496	Calculus (I)	3/3		Major Required	406007	Programming Language	2/3	Computer Course
Major Required	406058	Computational Thinking and Creative Programming	2/3	Computer Course	Major Required	406424	Material Management	3/3	
Major Required	406421	Industrial Engineering and Management	3/3		Major Required	406444	Computer Aided Graphics	1/3	Computer Course
Major Required	406441	Manufacturing Processes	2/3		Major Required	406525	Introduction of Measurement	1/3	

Major Required	406051	Labor education (1)	0/1		Major Required	406052	Labor education (2)	0/1	
Major Required	406049	All-out Defense Education Military Training-International Situations	0/2		Major Required	406050	All-out Defense Education Military Training -Defense Mobilization	0/2	

20 Credits, 27 Hours	17 Credits, 27 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	400G00	English(III)	2/2		General Education	400H00	English (IV)	2/2	
General Education	400C00	Physical Education (III)	1/2		General Education	400D00	physical education (4)	1/2	
General Education	300C00	General Courses(III)	2/2		General Education	300D00	General Courses (IV)	2/2	
Major Required	406057	Human Rights and Legal Education	2/2		Major Required	406031	Practical Chinese	2/2	
Major Required	406008	Internet Application	2/3	Computer Course	Major Required	406489	Contemporary Taiwan and Modern World	2/2	
Major Required	406403	Statistics（I）	3/3		Major Required	406516	Statistics（II）	3/4	
Major Required	406422	Work Study	3/4		Major Required	406519	Database Management System	1/3	Computer Course
Major Required	406518	Economics	2/3		Major Required	406801	Accounting	2/3	
Major Elective	406923	Ethics and Professional Ethics	2/2		Major Elective	406914	Career Consulting	2/2	
Major Elective	406925	Organizational Behavior	2/2		Major Elective	406922	The Training of Creative Thinking	2/2	
Major Elective	406940	Managing English Introduction	2/2		Major Elective	406981	Intelligent robot application	3/3	
Major Elective	406993	Material Requirement Planning	3/3		Major Elective	406998	Occupational safety and hygiene	3/3	

26 Credits, 30 Hours	25 Credits, 30 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	406425	Quality Management	3/4		Major Required	406432	Human Factors Engineering	3/3	
Major Required	406461	System Analysis and Design	2/3	Computer Course	Major Required	406505	Production and Operations Management	3/4	
Major Required	406501	Engineering Economy	3/3		Major Required	406529	Enterprise Resource Planning	3/3	
Major Required	406512	Operations Research	3/3		Major Elective	406824	Quality Assurance	3/3	
Major Elective	406806	Reliability Engineering	3/3		Major Elective	406842	Computer Aided Manufacturing	3/3	
Major Elective	406898	Management Information Systems	3/3		Major Elective	406895	Industry Analysis	3/3	
Major Elective	406908	Commerce Automation	3/3		Major Elective	406915	Multimedia Applications	3/3	Computer Course

Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Elective	406921	Marketing Management	3/3		Major Elective	406919	Logistics Management	3/3	
Major Elective	406926	Distribution Industry Management	3/3		Major Elective	406927	Service Management	2/2	
Major Elective	406929	Information Analysis and Application	2/3	Computer Course	Major Elective	406936	Finance Management	3/3	
Major Elective	406939	Cost Accounting	2/2		Major Elective	406982	Regression analysis application	3/3	
Major Elective	406994	Summer off-campus internship	3/3		Major Elective	406995	Advanced Manufacturing Technology Practice	3/3	
33 Credits, 36 Hours					35 Credits, 36 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	406427	Facilities Planning	3/4		College Major	40TND9	Interdisciplinary program learning	0/1	
Major Required	406491	English Proficiency qualification	0/2		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	
Major Required	406531	Practical Project	2/2		Major Required	406504	Professional Certificate Verification	0/2	
Major Elective	406896	Industrial Engineering Practice Internship(3)	4/8		Major Elective	406701	Lean Production Management	3/3	
Major Elective	406916	Production Automation	3/3		Major Elective	406828	Total Quality Management	3/3	
Major Elective	406920	E-Commerce	3/3		Major Elective	406829	Project Management	3/3	
Major Elective	406928	Investment and Finance	3/3		Major Elective	406843	Computer Integrated Manufacturing	3/3	
Major Elective	406930	Enterprise Resource Planning System	3/3		Major Elective	406889	Management of Case Study	3/3	
Major Elective	406932	Supply Chain Management	3/3		Major Elective	406897	Industrial Engineering Practice Internship(4)	4/8	
Major Elective	406938	Introduction of Operation Risk Management	3/3		Major Elective	406909	Human Resources Management	3/3	
Major Elective	406946	Business Operations Simulation	3/3		Major Elective	406937	Strategy Management	3/3	
Major Elective	406961	Semester Internship (Ⅰ)	9/18		Major Elective	406941	ERP Application for Manufacturing Module	3/3	
Major Elective	406978	Quality Engineering	3/3		Major Elective	406966	Semester Internship (Ⅱ)	9/9	
Major Elective	406983	System simulation application	3/3		Major Elective	406979	Introduction to Fuzzy Theory	3/3	
Major Elective	406994	Summer off-campus internship	3/3		Major Elective	406997	Industrial Engineering Practice Internship(2)	4/8	
48 Credits, 64 Hours					44 Credits, 56 Hours				