Curriculum

☐ **eML Course Major (Master's and Doctorate Programs)**

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark
General	CC010	Special Lecture on Leadership	1:0:0		
	CC020	Ethics and Safety I	1AU		
	CC500	Scientific Writing	3:0:3		
	CC510	Introduction to Computer Application	2:3:3		
	CC511	Probability and Statistics	2:3:3		
	CC512	Introduction to Materials Science and Engineering	3:0:3		
	CC513	Engineering Economy and Cost Analysis	3:0:3		
	CC522	Introduction to Instruments	2:3:3		
	CC530	Entrepreneurship and Business Strategies	3:0:3		
	CC531	Patent Analysis and Invention Disclosure	3:0:3(6)		
	CC532	Collaborative System Design and Engineering	4:0:4		
Mandatory Major	EML501	Introduction to e-Manufacturing	3:1:3(4)	Spring	
Elective Major	EML601	e-Manufacturing Practice	1:6:3(10)	Spring	
	MAE547	Knowledge-Based Design System	3:1:3(6)	Fall	
	IE551	Manufacturing System and Supply Chain	3:1:3(6)	Fall	*MAE570
	CS550	Software Engineering	3:0:3(4)	Spring	*IE652,*CS650 *CS655
	EML502	Business Information System	3:1:3(4)	Spring	
	EML503	Industrial Information Technology	3:1:3(4)	Fall	*IE564
	EML504	Innovative Learning and Knowledge Creation	3:1:3(4)	Fall	*MAE606
	IE526	IT Organization and Leadership	3:0:3(4)	Fall	
	IE532	Simulation and System Modeling	3:1:3(6)	Fall	*MAE694
	IE553	Concurrent Engineering and Product Data Management	3:1:3(6)	Spring	
	IE653	Digital Manufacturing	3:1:3(6)	Fall	
	IE639	Supply Chain Optimization	3:0:3(6)	Fall	
	IE723	Supply Chain Management	3:1:3(5)	Fall	
	MAE647	STEP for Electronic Commerce	3:0:3(6)	Spring	
	EML966	e-Manufacturing Leadership Seminar	2:0:1	Fall	

※ Note: * stands for substitutable courses