

Engineering Electives (Effective 11/2010)

Important Notes:

- This is **NOT** a comprehensive list. If you would like to take a different course please talk with an advisor.
- All Special Topics courses (4801/4803/4823, etc.) **MUST** be approved by an advisor. No **SEMINARS** may be used.
- Many of the allowable courses listed below have pre-requisite requirements. You will not be able to take the course unless you have met these requirements.
- Some departments may also only allow you to register for their courses during **Phase II** registration or only during certain semesters
- ISyE students **cannot** use ISyE courses for Engineering Elective requirement.

Course	Description	Credit	Pre-reqs	Notes
AE 2020	Low-Speed Aerodynamics	3	AE 1350, MATH 2401, & PHYS 2211	Occasional summer availability
AE 2120	Intro to Mechanics	3	MATH 2401& PHYS 2211	Occasional summer availability
AE 2220	Dynamics	3	MATH 2403 & COE 2001	Occasional summer availability
BMED 2210	Conservation Principles in BME	3	CHEM 1310, BMED 1300, PHYS 2211	
CEE 2040	Dynamics	3	COE 2001	Occasional summer availability
CEE 2300	Environmental Engineering Principles	3	CHEM 1310, MATH 1502, PHYS 2211	Occasional summer availability
CEE 3000	Civil Engr Systems	3	MATH 1501	Occasional summer availability
CEE 3010	Geomatics	3	AE/CEE/ME 1770	Occasional summer availability
CEE 4100	Construction Engr & Mgt	3		Occasional summer availability
CEE 4300	Environmental Engineering Systems	3	CEE 2300	Occasional summer availability
CEE 4600	Transportation Planning & Design	3	AE/CEE/ME 1770	Occasional summer availability
ChBE 2100	Chemical Process Principles	3	CHEM 1310 & MATH 1502	
ChBE 2110	Chemical Engineering Therodynamites I	3	ChBE 2100 & BIOL 1510	
CHBE/ECE 4755	Packaging Substrate Fab	3	CHEM 1310, PHYS 2212	ECE or CHBE class is acceptable
CHBE/ME 4763	Pulping and Chemical Recovery	3	No pre-reqs but CHEM 1310 is helpful, min. 2.8 GPA	ME or CHBE class is acceptable
CHBE/ME 4764	Bleaching and Papermaking	3	No pre-reqs but CHEM 1310 is helpful, min. 2.8 GPA	ME or CHBE class is acceptable
COE 2001	Statics	2	MATH 1502 & PHYS 2211	
COE 3001	Deformable Bodies	3	MATH 2403 & COE 2001	
COE 3002	Micro/Nano Revolution	3		
ECE 2025	Introduction to Signal Processing	4	MATH 1502 & CS 1371	
ECE 2030	Introduction to Computer Engineering	3	CS 1371 or CS 1301	
ECE 2040	Circuit Analysis	3	ECE 2025, PHYS2212, & MATH 2403/2413	
ECE 3035	Mechanisms for Computing Systems	4	ECE 2030 & CS 1372	
ECE 3076	Computer Communications	3	ECE 2025 & ECE 2030	
ECE 3710	Circuits and Electronics	2	PHYS 2212	
ECE 3741	Instrumentation and Electronic Lab	1	ECE 3710	
ECE 4823	Game Theory and Multiagent Systems	3	ECE 2040/3710/ISYE 3133 & CEE/ISYE/MATH 3770/ISYE 2027	Must have this title description
ME 2202	Dynamics of Rigid Bodies	3	COE 2001/ME 2211/AE 2120	
ME 3720	Introduction to Fluid and Thermal Engineering	3	CHEM 1310, PHYS 2211, MATH 2403	Occasional summer availability or Study Abroad
MSE 2001	Principles & Applications of Engr. Materials	3	CHEM 1310	Occasional summer availability
MSE 4020	Design with Materials I	1		Must have Senior hours
PTFE 2200	Structure and Properties of Fibers and Polymers	3	CHEM 1315 & CHEM 2312	
PTFE 3200	Yarn and Fabric Formation	3	PTFE 2200/3720	
PTFE 3220	Text Operations & Mgt Meth	3	PTFE 3200/3720	
PTFE 3720	Introduction to Fiber Enterprise	3		

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located: Samba Drive