

Engineering Science- Engineering Management Specialization Curriculum

Level	Freshman Year					
Semester	Fall Term			Spring Term		
	Course Code	Description	Units	Course Code	Description	Units
	CHE201	General Chemistry	1	MAT128	Calculus B	1
	MAT127	Calculus A	1	PHY202	General Physics II	1
	PHY201	General Physics I	1	College Core I	Literary, Visual or Performing Arts	1
	FYS	First Year Seminar	1	CSC217 or CSC220	Computer Science	1
	ENG144	Fundamentals of Engineering I	0.5	ENG145	Intro. to Eng. Science and Design	0.5
	ENG095	Introduction to Engineering	0			
			4.5			4.5

Level	Sophomore Year					
Semester	Fall			Spring		
	Course Code	Description	Units	Course Code	Description	Units
	ENG212	Circuit Analysis	1	MAT229	Multivariable Calculus	1
	ENG232	Manufacturing Processes	1	ENG214	Circuit Analysis Laboratory	0.5
	ENG272	Advanced Engineering Maths I	1	ECO101 or 102	Principles of Micro or Macro-economics	1
	ENG152	Engineering Materials Science	1	MEC251	Strength of Materials	1
	ENG222	Statics	1	ENG262	Dynamics	1
			5			4.5

Level	Junior Year					
Semester	Fall			Spring		
	Course Code	Description	Units	Course Code	Description	Units
	Engineering Elective*	Engineering Elective I	1	FIN201	Fundamentals of Financial Methods	0.5
	ENG322	Thermodynamics I	1	Engineering Elective*	Engineering Elective II	1
	ENG342	Advanced Eng. Maths II	1	ENG352	Control Systems	1
	MKT201	Marketing Principles	0.5	ENG348	Systems Engineering and Economics	1
	MGT201	Managing in the 21st Century	0.5	ENG094	Engineering Seminar IV	0
	ENG093	Engineering Seminar III	0	IDS252	Society, Ethics and Technology	1
			4			4.5

Level	Senior Year					
Semester	Fall			Spring		
	Course Code	Description	Units	Course Code	Description	Units
	ENG354	Control Systems Laboratory	0.5	ENG452	Project Management	1
	ACC201	Financial Accounting	1	ELC/MEC496*	Senior Design Project II	0.5
	ELC/MEC495*	Senior Design Project I	0.5	College Core III	Social Justice/Multidisciplinary Perspective	1
	Engineering Elective*	Engineering Elective III	1	BUS200	Legal Regulatory Environment	1
	College Core II	Historical Perspective	1	College Core IV	Social Justice/Multidisciplinary Perspective	1
	ENG099	Senior Profesional Seminar	0			
			4			4.5

35.5

Technical Electives			Preq		
I	MEC311 or ENG312	Mechanical Design Analysis I	MEC251	Legend	
II	ELC251 or MEC361	Digital Circuits and Microprocessors	CSC217, ENG212	Maths and Science Core	
III	Other	Electronics	ENG212, ENG272	Engineering Science Core	
		Fluid Mechanics	ENG222, ENG272	Management/Business Core	
		Technical Elective		General Engineering	
Technical Electives-Other				Computer Science	
	ELC321	Signals and Systems	ENG212	Others	
	ELC361	Engineering Electromagnetics	ENG212, MAT229		
	ELC411	Embedded System	ELC251, ENG312		
	ELC451	Computer Architecture	ENG312		
	ELC483/MEC483	Robotics	ENG272		
	MEC343	Biomechanics	MEC251		
	MEC371	Thermodynamics II	ENG322		
	MEC421	Kinematics and Mechanism	CSC217, ENG262		
	ELC/MEC470	Special Topics (By advisement)			
	ELC/MEC391	Independent Study			

* Engineering Elective- Students planning to enroll in MEC495/496 must follow the sequence MEC311-MEC361 for technical elective.

* Engineering Elective- Students planning to enroll in ELC495/496 must follow the sequence ENG312-ELC251 for technical elective.