

DESIGN SPINE CURRICULUM: INFORMATION SYSTEMS ENGINEERING FOUR-YEAR PLAN

4 year plan – Class of 2009 and Beyond

Listed by Course Number, Course Name, Lecture Hours-Lab Hours-Credit Hours

Class Term I - Fall			Class Term II - Spring		
CH 115	General Chemistry IA	3-0-3	CH 116 / CH 281/ EN 250	Science Elective and associated Lab	3-0-3
CH 117	General Chemistry Lab I	0-3-1	PEP 111	Physics I	3-0-3
Ma 115	Calculus I	3-0-3	Ma 116	Calculus II	3-0-3
E 101	Engineering Experiences I	1-0-0	E 102	Eng. Experiences II	1-0-1
E 121	Engineering Design I	0-3-2	E 122	Engineering Design II	0-3-2
E 120	Engineering Graphics	0-2-1	HU	Humanities	3-0-3
E 115	Intro. To Programming	1-1.5-2			
HU	Humanities	3-0-3			
		11-9.5-15			13-3-15
Class Term III - Fall			Class Term IV - Spring		
E 231	Engineering Design III	0-3-2	E 232	Engineering Design IV	2-3-3
E 126	Mechanics of Solids	4-0-4	PEP 201 or above	Science Elective II with or without lab	2-3-3
E 245	Circuits and Systems	2-3-3	E 234	Thermodynamics	3-0-3
HU	Humanities	3-0-3	Ma 227	Multivariate Calculus	3-0-3
Ma 221	Differential Equations	4-0-4	EM 275	Project Management	3-0-3
PEP112	Physics II	3-0-3	MA 134	Discrete Math	3-0-3
		16-6-19			16-6-18
Class Term V - Fallr			Class Term VI - Spring		
E 321	Engineering Design V	0-3-2	EM 322	Engineering Design VI ²	1-3-2
E 342	Transport/Fluid Mechanics ²	3-3-4	EM 345	Modeling & Simulation ²	3-0-3
E 344	Materials Processing	3-0-3	E 355	Engineering Economics	3-3-4
CpE 360	Comp Alg. &Data Structures	3-0-3	Hu	Humanities	3-0-3
T. E.	Technical Elective ²	3-0-3	T.E.	Technical Elective ²	3-0-3
		15-6-18	GE	General Elective	3-0-3
					16-6-18
Class Term VII - Fall			Class Term VIII - Spring		
E 423	Engineering Design VII ²	1-7-3	E 424	Engineering Design VIII ²	3-0-3
CpE 490	Information Systems Eng I	3-0-3	T.E.	Technical Elective	3-0-3
GE	General Elective	3-0-3	GE	General Elective	1-7-3
SYS/CpE 5xx	Information Data Systems	3-0-3	E 424	Technogenesis Core	3-0-3
HU	Humanities	3-0-3	HU	Humanities	3-0-3
EM 435	Bus Process Reengineering	3-0-3			
		16-7-18			13-7-15

Notes:

Boxed courses are EM Senior Design for ISM focus area

2 Discipline specific courses

For Information Systems Management (ISM) focus area, transport = CE 342, and TE courses are EM 301 = Fall, EM 385 = Spring of junior year, EM 360 = spring of senior year