Appendix A - CpE Approved Technical Electives Courses

9 credits minimum required:
at least 6cr. from one track
and 3 cr. from alternate

Course Number and Title		Embed	Gen Pur	Theory	Enterp
MA3150	Multivariable Calculus			X	
MA3160	Multivariable Calc with Tech			X	
MA3202	Intro to Coding Theory		X	X	
MA3203	Intro to Cryptography		X	X	
MA3210	Intro to Combinatorics			X	
MA3310	Intro to Abstract Algebra			X	
MA3450	Intro to Real Analysis			X	
MA4xxx	*Math 4000-level crses*			X	
MA5xxx	*Math 5000-level crses*			X	
CSxxxx	Safety Critical Programming	X			
CS 3141	Team Software Project	X	X		
CS 3311	Formal Models of Comp.			X	
CS 3411	Systems Programming		X		
CS 3451	Computer Administration		X		
CS 3621	Computer Graphics		X		
CS 4121	Programming Languages			X	
CS 4131	Compiler Construction		X		
CS 4311	Intro to Computation Theory			X	
CS 4321	Intro to Algorithms			X	
CS 4331	Intro to Parallel Programming		X		
CS 4421	Database Systems			X	
CS 4451	Network Administration		X		
CS 4461	Computer Networks		X		
CS 4471	Comp & Net Security	X	X		
CS 4481	Comp & Net Perf Analysis	X	X		
CS 4611	Intro to Computer Graphics			X	
CS 4711	Software Processes & Management	X	X		
CS 4712	Software QA	X	X		
CS4760	Human-Computer Interactions		X		
CS 4811	Artificial Intelligence			X	
CS 5131	Compiler Optimization		X		
CS 5311	Computation Theory			X	
CS 5321	Adv. Algorithms			X	
CS 5331	Parallel Algorithms			X	
CS 5411	Advanced Operating Systems		X		
CS 5431	Adv. Computer Architecture		X		
CS 5441	Distributed Systems		X		
CS-5461	Mobile Networks	X	X		
CS 56xx	*Adv Graphics {CS 5600-5699}*			X	
CS 5711	Adv. Software Engineering	X	X		
CS 5811	Adv. Artificial Intelligence			X	

Course Number and Title		Embed	Gen Pur	Theory	Enterp
EE3140	Electromagnetics			X	
EE3180	Probability & Random Signal Anal.	X		X	
EE3221	Motor Drives	X			
EE4231	Physical Electronics			X	
EE4232	Electronic Applications	X	X		
EE4250	Communication Science			X	
EE4252	Digital Signal Processing	X		X	
EE4253	Real Time Signal Processing	X			
EE4255	Wireless Communications		X	X	
EE4257	Digital Image processing	X			
EE4261	Classical Control Systems	X			
EE4262	Digital and Non-linear Control	X			
EE4271	Verilog HDL Design		X		
EE4272	Computer Networks		X		
EE4723	Comp. & Network Security	X	X		
EE4732	Real-Time System Design	X			
EE4735	Embedded System Programming	X			
EE4751/575.	Verilog HDL Design		X	X	
EE5220	Transient Analysis Methods			X	
EE5340	Statistical Optics	X		X	
EE5410	Engineering Electromagnetics			X	
EE5430	Electronic Materials			X	
EE5500	Statistical Signal Processing	X			
EE5520	Fourier Optics	X		X	
EE5522	Digital Image processing	X			
EE5725	Multi-Robot Systems demand	X			
EE573x	*Real-Time {EE 5730 - 5739}*	X			
EE5752	Digital Storage Technologies		X		
EE5755	Fault-Tolerant Systems demand	X	X		
EE577x	*Adv Arch {EE 5770 - 5779}*		X		
MEEM4705	Intro Robotics and Mechatronics	X			
NNxxxx	*Individual/team crses (see App B)*				
ENT3954	Enterprise Market Principles				X
ENT3956	Industrial Health and Safety				X
ENT3958	Ethics in Eng'g Dsgn & Implem.				X
ENT3961	Enterprise Strategic Leadership				X
ENT3963	Technology Commercialization				X
ENT3964	Project Management				X
ENT3966	Design for Manufacturing				X
ENT3970	Special Topics-*Dept Approval required*				X
ENT3972	Practical Circuit Design				X
ENT4951	Bus. Plans & Budgeting in Ent.				X
ENT4954	Global Competition				X
CO-OP	*MTU Cooperative Ed Pgm*				X

Look up semester offerings and pre-reqs