

**Course Requirements and Registration Priorities
School of Engineering (Master), Spring 2018**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SEDS											
Chemical Engineering											
1	MCHE 601	Pipeline Engineering & Flow Assurance	3	6							
2	MCHE 602	Process Engineering and Simulation	3	6	MCHE 615 Advanced Unit Operations (3145) (D and above)						
3	MCHE 603	Crude Oil Processing	3	6							
4	MCHE 604	Natural Gas Processing	3	6							
5	MCHE 605	Petroleum Refining Water/Wastewater Use and Management	3	6							
Civil Engineering											
6	MCE 609	Contaminated Site Management and Soil Treatment Technologies	3	6							
7	MCE 610	Sustainable Transportation Systems	3	6							
8	MCE 611	Sustainable Infrastructure Systems	3	6							
9	MCE 612	Resilient Structural and Geotechnical Systems	3	6							
Civil and Environmental Engineering											
10	EMEM 510	Managerial Accounting	2	4							
11	EMEM 511	Business Strategy	2	4							
12	EMEM 512	Leading Change	2	4							
13	EMEM 513	Entrepreneurship	2	4							
14	EMEM 514	Finance	2	4							
15	EMEM 516	Management of Organizations	2	4							
16	EMEM 517	Marketing	2	4							
17	EMEM 529	Capstone Project	8	16							

18	EMEM 535	Managing Product and Service Development	3	6							
19	EMEM 543	Quality and Lean Management	3	6							
20	EMEM 545	Business Communication	2	4							
Electrical and Electronic Engineering											
21	MEE 601	Industrial and Commercial Power System	3	6							
22	MEE 602	Advanced Power Electronics	3	6							
23	MEE 609	Internet of Things	3	6							
24	MEE 615	Wireless Communications	3	6							
25	MEE 618	Optical Communication	3	6							
26	MEE 620	RF and Microwave Communications Systems	3	6							
27	MEE 624	Pattern Recognition	3	6							
28	MEE 627	Switched Capacitor Converters (Special Topics in Power Engineering)	3	6							
29	MEE 629	System Design for Wireless	3	6							
Mechanical Engineering											
30	MME 622	Advanced Design and Manufacturing	3	6							
31	MME 623	Design and Manufacturing with Environmental Concern	3	6							
32	MME 624	Design Optimization	3	6							
33	MME 625	Advanced Computer Aided Engineering	3	6							
34	MME 626	Advanced Manufacturing Processes and Strategies	3	6							