

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

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SEng</b>											
<b>Chemical Engineering</b>											
1	MCHE 601	Pipeline Engineering & Flow Assurance	3	6							
2	MCHE 602	Process Engineering and Simulation	3	6	MCHE 615 Advanced Unit Operations (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							
<b>Civil Engineering</b>											
6	EMEM 510	Managerial Accounting	2	4							
7	EMEM 511	Business Strategy	2	4							
8	EMEM 512	Leading Change	2	4							
9	EMEM 513	Entrepreneurship	2	4							
10	EMEM 514	Finance	2	4							
11	EMEM 516	Management of Organizations	2	4							
12	EMEM 517	Marketing	2	4							
13	EMEM 529	Capstone Project	7.5	15							
14	EMEM 535	Managing Product and Service Development	3	6							
15	EMEM 543	Quality and Lean Management	3	6							
16	EMEM 545	Business Communication	2	4							
17	MCE 609	Contaminated Site Management and Soil Treatment Technologies	3	6							
18	MCE 610	Sustainable Transportation Systems	3	6							

19	MCE 611	Sustainable Infrastructure Systems	3	6						
20	MCE 612	Resilient Structural and Geotechnical Systems	3	6						
<b>Electrical and Electronic Engineering</b>										
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						
<b>Mechanical Engineering</b>										
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						