

**Course Requirements and Registration Priorities
School of Engineering (Master), Spring 2017**

| # | 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 610 | Sustainable Transportation Systems | 3 | 6 | | | | | | | |
| 7 | MCE 611 | Sustainable Infrastructure Systems | 3 | 6 | | | | | | | |
| 8 | MCE 612 | Resilient Structural and Geotechnical Systems | 3 | 6 | | | | | | | |
| 9 | MCE 613 | Numerical Method in Geotechnical Engineering | 3 | 6 | | | | | | | |
| 10 | MCE 615 | Applications of Geomatics in Civil Engineering | 3 | 6 | | | | | | | |
| Civil and Environmental Engineering | | | | | | | | | | | |
| 11 | EMEM 510 | Managerial Accounting | 2 | 4 | | | | | | | |
| 12 | EMEM 511 | Business Strategy | 2 | 4 | | | | | | | |
| 13 | EMEM 512 | Leading Change | 2 | 4 | | | | | | | |
| 14 | EMEM 513 | Entrepreneurship | 2 | 4 | | | | | | | |
| 15 | EMEM 514 | Finance | 2 | 4 | | | | | | | |
| 16 | EMEM 516 | Management of Organizations | 2 | 4 | | | | | | | |
| 17 | EMEM 517 | Marketing | 2 | 4 | | | | | | | |

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|--|-------------|---|-----|----|--|--|--|--|--|--|
| 18 | EMEM 527 | Globalization and Engineering | 3 | 6 | | | | | | |
| 19 | EMEM 529 | Capstone Project | 8 | 16 | | | | | | |
| 20 | EMEM 544 | Lean Production | 1.5 | 3 | | | | | | |
| 21 | EMEM 545 | Business Communication | 2 | 4 | | | | | | |
| Electrical and Electronic Engineering | | | | | | | | | | |
| 22 | MEE 601 | Industrial and Commercial Power System | 3 | 6 | | | | | | |
| 23 | MEE 602 | Advanced Power Electronics | 3 | 6 | | | | | | |
| 24 | MEE 603 | Special Topics in Power Engineering | 3 | 6 | | | | | | |
| 25 | MEE 609 | Internet of Things | 3 | 6 | | | | | | |
| 26 | MEE 615 | Wireless Communications | 3 | 6 | | | | | | |
| 27 | MEE 618 | Optical Communication | 3 | 6 | | | | | | |
| 28 | MEE 619 | Photonics Technology | 3 | 6 | | | | | | |
| 29 | MEE 620 | RF and Microwave Communications Systems | 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 | | | | | | |