

**Course Requirements and Registration Priorities**  
**School of Engineering (Graduate: Master), Fall 2017**

| #                           | 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 600 | MSc Thesis in Chemical Engineering             | 15     | 30       |   |             |               |                           |                           |                           |                           |
| 2                           | MCHE 613 | Physical Chemistry of Oil & Gas                | 1.5    | 3        |   |             |               |                           |                           |                           |                           |
| 3                           | MCHE 614 | Applied Chemical Engineering Thermodynamics    | 1.5    | 3        |   |             |               |                           |                           |                           |                           |
| 4                           | MCHE 615 | Advanced Unit Operations                       | 1.5    | 3        |   |             |               |                           |                           |                           |                           |
| 5                           | MCHE 616 | Advanced Chemical Reactor Engineering          | 1.5    | 3        | ECHE 481<br>Chemical Reaction Engineering (D and above) |             |               |                           |                           |                           |                           |
| 6                           | MCHE 618 | Plant Economics and Planning                   | 1.5    | 3        |   |             |               |                           |                           |                           |                           |
| 7                           | MCHE 619 | Safety Engineering and Loss Prevention         | 1.5    | 3        |   |             |               |                           |                           |                           |                           |
| <b>Civil Engineering</b>    |          |  |        |          |   |             |               |                           |                           |                           |                           |
| 8                           | EMEM 507 | Project Management                             | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 9                           | EMEM 523 | Supply Chain Management                        | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 10                          | EMEM 527 | Globalization and Engineering                  | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 11                          | EMEM 533 | Engineering Management and Engineering Economy | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 12                          | EMEM 537 | Engineering Decision Tools                     | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 13                          | EMEM 538 | Knowledge and Innovation Management            | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 14                          | EMEM 539 | Big Data and Information Management            | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 15                          | EMEM 542 | Production and Service Operations Management   | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 16                          | MCE 600  | MSc Thesis in Civil Engineering                | 15     | 30       |   |             |               |                           |                           |                           |                           |
| 17                          | MCE 601  | Sustainable Development                        | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 18                          | MCE 604  | Advanced Project Management                    | 3      | 6        |   |             |               |                           |                           |                           |                           |
| 19                          | MCE 606  | Environmental Impacts and Assessments          | 3      | 6        |   |             |               |                           |                           |                           |                           |

|  |         |  |    |    |  |  |  |  |  |  |
|--|---------|--|----|----|--|--|--|--|--|--|
| 20   | MSC 615 | Advanced statistics and probability                  | 3  | 6  |  |  |  |  |  |  |
| 21   | MSC 616 | Research Methods                                     | 3  | 6  |  |  |  |  |  |  |
| <b>Electrical and Electronic Engineering</b> |         |  |    |    |  |  |  |  |  |  |
| 22   | MEE 600 | MSc Thesis in Electrical and Electronics Engineering | 15 | 30 |  |  |  |  |  |  |
| 23   | MEE 607 | Statistical Signal Processing                        | 3  | 6  |  |  |  |  |  |  |
| 24   | MEE 608 | Special Topics in Circuits Theory                    | 3  | 6  |  |  |  |  |  |  |
| 25   | MEE 622 | Modern Control Theory                                | 3  | 6  |  |  |  |  |  |  |
| 26   | MEE 623 | Random Processes                                     | 3  | 6  |  |  |  |  |  |  |
| <b>Mechanical Engineering</b>                |         |  |    |    |  |  |  |  |  |  |
| 27   | MME 600 | MSc Thesis in Mechanical Engineering                 | 15 | 30 |  |  |  |  |  |  |
| 28   | MME 604 | Engineering Mathematics                              | 3  | 6  |  |  |  |  |  |  |
| 29   | MME 605 | Numerical Techniques for Engineers                   | 3  | 6  |  |  |  |  |  |  |
| 30   | MME 606 | Advanced control systems                             | 3  | 6  |  |  |  |  |  |  |