Masters in Energy Science, Technology and Policy: pathways

Spring 2018 Schedule  -- v1.0 NS 10/24/2017

Underlined Courses are available based on the preliminary published schedule information for Spring 2018. BOLD Courses are required for the CHE, MSE, & MEG disciplinary concentrations.

### ENERGY CORE (24 units)

- 39-610 Energy Conversion & Supply (6)
- 39-613 Energy Transport & Storage (6)
- 39-611 Energy Demand & Utilization (6)
- 39-612 Energy Policy & Economics (6)

Wean Hall 5421 (TR 9:30-11:20)
- 39-611 A3-mini (Prof. Samaras)
- 39-612 A4-mini (Prof. Whitacre)

### BREADTH ELECTIVES:

**EST&P and EST&P-AS Degrees:**

- 36 units of relevant grad-level engineering courses, including up to 18 units of pre-approved related courses from outside the college of engineering

**also for the EST&P-AS Degree (3 semesters):**

additional 24 units of faculty-supervised master’s project, independent study, internship, and/or specific pre-approved engineering project courses

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**CONCENTRATION (36 units: bold/required, underlined/Spring’18)**

### Chemical Engineering

- 06-665 Process Systems Modeling (12) MW 4:30-6:20
- 06-625 Chemical & Reactive Systems (12)
- 06-713 Math Techniques in Chem. Engr (12)

### Civil & Environmental Engineering

- 12-704 Prob & Est Methods for Engr Sys (12)
- 12-706 Civil Systems Invest. Plan & Pricing (12)
- 12-712 Intro to Sustainable Engineering (12)
- 12-740 Data Acquisition (6)
- 12-741 Data Management (6)
- 12-751/651 Air Quality Engr. (12)
- 12-761 S.T. Sense & Data Mine Smart Structures (12)

### Electrical & Computer Engineering

- 18-631 Intro to Info Security (12)
- 18-618 Smart Grids & F. E. Engr. Sys (12)
- 18-743 Energy Aware Computing (12)
- 18-730 Intro Computer Security (12)
- 18-882A S.T.Power Electronics (12)

### Engineering & Public Policy

- 19-671/725 Infrastructure Mgmt. (12) TR 3:40-6:40
- 19-624 S.T. Emerging Energy Policy (12)
- 19-696 S.T. Sus Dev & Innovation (9)
- 19-717 (12-712) Intro Sustainable Engr (12)
- 19-740 (24-740) Cmbstn & Air Pollut Ctrl (12)
- 19-638 (18-618) Smart Grids & F. Elec. (12)

### Materials Science and Engineering

- 27-705 Nanstructured Mat. (12) TR 1:30-3:30
- 27-718 Soft Materials (12)
- 27-721 Processing Design (6)
- 27-724 Materials for Energy Storage (6)
- 27-725 Materials in Nuclear Systems (6)
- 27-728 Materials for Future Energy Sys (6)
- 27-729 Solid State Dev. Energy Conv (6)
- 27-730 Energy Consum. & Min. Metals Prod (6)

### Mechanical Engineering

- 24-722 Energy System Modeling (12)
- 24-616 Tribology-Fric. Lubric. & Wear (12)
- 24-628 Energy Trans&Conv Nano-scale (12) MW 3:30-5:30
- 24-731/733 Conductive/Radiative Heat Transfer (6)
- 24-740 Combustion & Air Pollution (12)
- 24-618 Comp. Trans Phen (12) MW 4:30-6:20

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