### Chemical Engineering

- **06-665 Process Systems Modeling (12)**
- **06-625 Chemical & Reactive Systems (12)**
- **06-663 Analysis & Modeling Transport Phenom. (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 Engr. (12)**
- **12-740 Data Acquisition (6A1)**
- **12-741 Data Management (6A2)**
- **12-743 Comp. Search & Decision in Civil Infrastructure (6)**

### Electrical & Computer Engineering

- **18-618 Intro to Security & Policy (12)**
- **18-630 Intro to Security & Policy (12)**
- **18-730 Intro Computer Security (12)**
- **18-587 Elec. Energy Conv., Cntrl & Mgmt (12ug)**
- **18-731 Network Security (12)**
- **18-743 Engr Aware Computing (12)**

### Engineering & Public Policy

- **19-624 T. Emerging Energy Policy (12)**
- **19-625 Sust. Energy for the Dev. World (12)**
- **19-696 S.T. Sus Dev & Innovation (9)**
- **19-717 (27-727) Intro/Intermediate Engr (12MFFS, 30-30-30)**
- **18-704(27-740) Comprt & Pol Sci Engr (12)**

### Materials Science and Engineering

- **K27-798 Thermodynamics I (6A1)**
- **27-718 Soft Materials (12)**
- **27-724 Materials for Energy Storage (6)**
- **27-727 Mechanical Behavior in Extreme Env. (6)**
- **27-765 Special Topics: Materials & Society (6)**
- **27-794 Chem. Stab. Materials Extr. & Env. (6)**
- **27-796 Structure of Materials (6A1)**

### Mechanical Engineering

- **24-722 Energy System Modeling (12)**
- **24-616 Tribology-Fric. Lubric. & Wear (12)**
- **24-628 ST Energy Trans+Conv Nano-scale (12)**
- **24-731/733 Conductive/Radiative Heat Transfer (6)**
- **24-736 Two-Phase Flow & Heat Transfer**
- **24-642 Fuel Cell Systems (12)**
- **24-643 Electrochem. Energy Storage (12)**

### Masters in Energy Science, Technology and Policy: pathways

**Fall 2019 Schedule -- v1.0 NS 4/2/2019**

Underlined Courses are available based on the preliminary published schedule information for Fall 2019. 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)**
- **39-613 A2-mini, Prof. Ohodnicki**
- **39-610 A1-mini, Prof. Salvador**

**BREADTH ELECTIVES**

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

- **also for EST&P-AS Degree:**
  - additional 24 units of faculty-supervised master’s project, independent study, internship, and/or specific pre-approved engineering project courses

- **also for EST&P-AS-CS Degree:**
  - 15-513 and 17-514 are required and CS breadth electives

**M.S. EST&P-AS Applied Studies**

**M.S. EST&P-AS-SCS Integrated Studies Computer Science**

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**EST&P-AS-SCS Integrated Studies in Computer Science**