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

**Fall 2021 Schedule -- v1.0 JP 5/20/2021**

Underlined Courses are available based on the preliminary published schedule information for Fall 2021. **BOLD Courses** are required for the CHE, MSE, & MEG disciplinary concentrations.

### Core Courses (24 units)

**Energy Core**

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

**Electrical and Computer Engineering**

- 19-631 Intro to Info Security (12)
- 19-626 Climate Science & Policy (12)

**Chemical Engineering**

- 06-605 Process Systems Modeling (12)
- 06-623 Math. Mod. Chem. E. Process (12) TR 8:00-9:50
- 06-625 Chemical & Reaction Systems (12) MW 8:00-9:50
- 06-663 Analysis & Modeling Trans. Phenom (12)
- 06-713 Math Techniques in Chem. Engr. (12) MW 8:00-9:50

**Civil & Environmental Engineering**

- 12-704 Prob & Est Methods for Engr Sys (12) MW 7:00-8:50
- 12-706 Civil Systems Inspec. Plan & Pricing (12) TR 11:25-2:45
- 12-712 Intro to Sustainable Engineering (12) MW 1:25-2:15
- 12-740 Data Acquisition (6) TR 11:50-1:10
- 12-741 Data Management (6) TR 11:50-1:10
- 12-751/651 Air Quality Engr. (12) MW 2:30-3:20
- 12-760ST Sense & Data Mine Smart Structures (12)

**Engineering & Public Policy**

- 19-671 Sem. Infra Mgmt. (12)
- 19-624 S.T. Emerging Policy (12) TR 11:50-1:10
- 19-625 Sust Energy for Dev World (12)
- 19-696 S.T. Sus Dev & Innovation (9)
- 19-740 (12-740) Energy & Materials in Policy (6) TR 1:00-2:45
- 19-638 (18-618) Smart Grids & F. Elec. (12)

**Materials Science and Engineering**

- 27-705 Nanosstructured Mat. (12)
- 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)
- 27-770 Electronic, Magnetics & Optical Props (12)

### Concentration (36 units: bold/required, underlined/Fall’21)

**Chemical Engineering**

- 06-702 Advanced Reaction Kinetics (12)
- 06-703 Advanced Fluid Dynamics (12)
- 06-720 Adv Process Systems Engr (12)

**Civil & Environmental Engineering**

- 12-745 Adv Infra Systems Project (12)
- 12-747 Sustainable Buildings (6)
- 12-714 Environ. Life Cycle Asses. (12)
- 12-749 Climate Change Adapt. (6A4)
- 12-750 Infrastructre Management (12)
- 12-752 Data Driv Engr Management (12)
- 12-760 S.T. Climate Change Sci & Adapt. (12)

**Electrical and Computer Engineering**

- 18-631 Intro to Info Security (12) TR mult. times
- 18-671 Linear Systems (12) MW 4:40-6:30
- 18-777 Complex Large-Scale Dynam Sys (12)
- 18-879M Opt in Energy Networks (12)
- 18-875 Networked Control Systems (12)
- 18-875 Econ & Engr Energetics (12)

### Electives

- **All EST&P 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.

**Breadth Electives**

- additional 36 units of faculty-supervised master’s project, independent study, internship, and/or specific pre-approved engineering project courses.

- also for students in Energy Project track: