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

### Fall 2022 Schedule -- v1.0 JP 4/6/2022

Underlined Courses are available based on the preliminary published schedule information for Fall 2022. **BOLD Courses** are required for the CHE, MSE, & MEG disciplinary concentrations.

### ENERGY CORE (24 units)

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

- Mechanical Engineering
  - 27-050 Nanostructured Materials (12)
  - 27-721 Advanced Thermodynamics (12)
  - 611 Energy Demand & Utilization (6)
  - 612 Energy Policy & Economics (6)

- Chemical Engineering
  - 06-665 Process Systems Modeling (12)

### CONCENTRATION (36 units: **bold/**required, underlined/Fall’22)

#### Chemical Engineering
- 06-702 Advanced Reaction Kinetics (12)
- 06-703 Advanced Fluid Dynamics (12)
- 06-704 Adv Heat & Mass Transfer (12) MW 10:00-10:10

#### Civil & Environmental Engineering
- 12-712 Sustainable Engineering Principles (12) MW 1:25-2:15
- 12-749 Climate Change Adapt. (6A4)
- 12-750 Infrastructure Management (12)
- 12-752 Data Drv. Bldg Eng & Mgmt (6A4)

#### Electrical & Computer Engineering

#### Engineering & Public Policy
- 19-882 Low Basic Elec. Power (6A4)
- 19-949 Climate Change Policy (12)
- 19-653 Climate Change Mit. (12)
- 19-656 S.T. CO2 Capture & Sequestration (6A3)

#### Materials Science and Engineering
- 27-765 Special Topics: Materials & Society (6)
- 27-766 Diffusions in Materials (6) MW 12:20-2:10

#### Mechanical Engineering
- 24-722 Energy System Modeling (12) MW 4:40-6:30
- 24-616 Tribology: Friction, Lubric. & Wear (12)
- 24-628 Energy Trans & Conv Nano-scale (12) MW 2:30-4:20

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### BREADTH ELECTIVES

#### All EST&P 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.

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### ENERGY PROJECT TRACK:

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

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**Note:** Underlined/Fall’22 preliminary courses are subject to change. Check with the Department for course registration information.

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**Schedule:**
- **Energy**: 8-12:10
- **Engineering**: 1:25-3:20
- **Civil**: 1:25-2:15
- **Public**: 1:10p
- **Materials**: 9:05-10:50
- **Mechanical**: 4:40-6:30

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**Additional Information:**
- **Special Topics in Materials Science and Engineering (6)**: MW 8:00-9:50
- **Special Topics in Energy Systems (6)**: MW 12:20-2:10
- **Special Topics in Mechanical Engineering (6)**: MW 8:00-9:50
- **Special Topics in Thermodynamics (6)**: MW 12:20-2:10
- **Special Topics in Electrical Engineering (6)**: MW 9:05-10:50

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**Supervised Project Track (6** units**):

- Undergraduate and/or Graduate project courses (up to 18 units)
- Faculty-supervised project track

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**Additional Course Information:**
- **Energy Science & Technology Policy (EST&P) Project Track**: Undergraduate and/or Graduate project courses (up to 18 units)
- **Faculty-supervised project track**

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**Additional Resources:**
- College of Engineering