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# **Climate + Sustainability** Systems

The **New Engineering Education Transformation (NEET) Climate and Sustainability Systems (CSS) thread** offers hands-on coursework focused on three areas:

New Materials and Processes Energy Production and Distribution Manufacturing

This thread provides the training needed to **innovate the materials**, **devices**, **processes**, **and networked systems to support the urgent and imperative transition towards netzero greenhouse gas emissions** and a more sustainable planet.

NEET is a **3-year, experiential learning certificate program** (sophomore through senior year) that you complete in the usual four years along with your major. All NEET scholars gain **exclusive access** to the **NEET Scholars Collaboration Space (3-001)**.



# CSS LEAD INSTRUCTOR

**Dr. Nathan Melenbrink** CSS Founding Lead Instructor, Lecturer MIT School of Engineering enm@mit.edu

# LEARN MORE



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# THREAD REQUIREMENTS

Introductory Project Subject (recommended sophomore year):

22.03/3.0061[J]: Introduction to Design Thinking and Rapid Prototyping (6 units)

### Intermediate HASS Subject (recommended junior year):

21A.S01: Anthro-Engineering: Decarbonization at the Million-Person Scale (12 units)

NEET Capstone Project Subject (taken junior or senior year):

#### **Choose ONE:**

- 22.S094 | NEET Mongolia Project Capstone (12 units)
- UROP/SuperUROP related to climate, energy, materials, or manufacturing

#### **Elective Capstone-Level Project Subjects (taken junior or senior year):**

#### Choose ONE:

- 2.S981: Special Subject in Mechanical Engineering
- 3.042: Materials Project Laboratory
- 2.013: Engineering Systems Design
- 10.467: Polymer Science Laboratory
- 10.492 (A+B): Integrated Chemical Engineering Topics I (6 + 6 units)
- 10.493: Integrated Chemical Engineering Topics II (6 units)
- 10.494 (A+B): Integrated Chemical Engineering Topics III (6 + 6 units)
- Or other advanced project class

#### Seminar Series (enroll for 3 semesters over the course of 3 years):

• 3.006/22.003[J] | NEET CSS Seminar

Speaker series featuring conversations with experts from academia and industry in energy, materials, or manufacturing, career input, special hands-on engagements, and technically-focused independent study options thereafter. (3 units)

### **CSS FOUNDING FACULTY LEAD**

#### **Professor Mike Short** CSS Founding Faculty Lead, NEET Associate Director MIT School of Engineering hereiam@mit.edu

