

# PEACE ENGINEERING MINOR (CEC)

**Banner Code:** PCEN

## Academic Advising

2100 Nguyen Engineering Building  
Fairfax Campus

Phone: 703-993-5689

Email: [seor@gmu.edu](mailto:seor@gmu.edu)

Website: <https://seor.gmu.edu/>

The Peace Engineering minor brings together expertise in systems-level science, engineering principles, and conflict resolution practice to support conditions for peace. It prepares students to engage in projects with conflict sensitivity and to understand the engineering technologies and approaches impacting human systems. The minor explores how key topics of design, systems thinking, the environment, digital systems and technology intersect with conflict at various scales - from local communities to the world stage. The minor develops an understanding of problem solving approaches and tools that are integral parts of the peace engineer's toolbox. This minor is jointly offered by the College of Engineering and Computing and the Carter School for Peace and Conflict Resolution.

## Admissions & Policies

### Policies

At least eight credits of the minor courses must be unique to the Peace Engineering Minor and not applied toward any other major, minor, certificate, or concentration. Students must achieve a grade of C or better in each course that is applied toward the minor. For policies governing all minors, see AP.5.3.4 Minors (<http://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-3-4>).

## Requirements

### Minor Requirements

Total credits: 15

#### Core Courses

Code	Title	Credits
CONF 101	Conflict and Our World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
CEIE 100	Environmental Issues and Solutions Around the World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	3
or DSGN 101	Introduction to Design Thinking	
SYST 414	Systems Thinking	3
or CONF 435	Building Peace in Divided Societies	
Total Credits		9

### Electives

Code	Title	Credits
<b>Conflict Analysis and Resolution</b>		
Select one from the following:		3
CONF 329	Community Engagement and Collaborative Problem Solving	
CONF 330	Community, Group, and Organizational Conflict Analysis and Resolution	
CONF 340	Global Conflict Analysis and Resolution (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
CONF 435	Building Peace in Divided Societies <sup>1</sup>	
<b>Engineering</b>		
Select one from the following:		3
CDS 205	Introduction to Agent-based Modeling and Simulation	
EVPP 336	Tackling Wicked Problems in Society the Environment (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
SYST 130	Introduction to Computing for Digital Systems Engineering (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
SYST 202	Engineering Systems in a Complex World (Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )	
SYST 414	Systems Thinking <sup>1</sup>	
Total Credits		6

<sup>1</sup>

Students may not double count required courses and elective courses.