

FALL 2024 COURSE

ENGR 10301

DEFENSE & SECURITY

1-CREDIT COURSE (CRN 30811)
THURSDAYS • 4:30 PM - 5:20 PM • WALC B093

Open to students in the College of Engineering

The United States Departments of Energy, Defense, and Homeland Security play important roles in ensuring the security of our nation. These agencies ensure safety in transportation security environments; organize, deploy, and supply our military; maintain stewardship of our nuclear arsenal; and develop and deploy our cybersecurity strategies. This one-credit seminar course will feature speakers from various institutions, including the Air Force Research Laboratory, Sandia National Laboratories, and the National Security Agency. These speakers will discuss topics related to the complex intersection of engineering, policy, and government research, and will demonstrate the many exciting opportunities Boilermakers have to work on these initiatives.

Topics covered in this course include:

- Quantum computing for national security
- Artificial Intelligence
- Cybersecurity
- Hypersonics
- Energetics
- Space systems
- Climate change
- Fusion energy
- Cyber-physical systems in critical infrastructure
- Nuclear deterrents



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