ENGR 10301
DEFENSE & SECURITY

1-CREDIT COURSE (CRN 30811)
THURSDAYS • 4:30 PM - 5:20 PM • WALC 3138

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 guest lectures from various federal institutions, including the Air Force Research Laboratory, Army Research Labs, Department of Energy federal research lab like Sandia National Laboratories and other relevant federal agencies. 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 security
- Fusion energy
- Cyber-physical systems in critical infrastructure
- Nuclear deterrents

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