

Ethics and Emerging Military Technology

U.S. Naval War College Certificate

Goal

- Develop an advanced perspective on applying ethical reasoning to emerging technologies.

Description

- The Naval War College's new Certificate in Ethics and Emerging Military Technology (EEMT) deepens expertise in the ethical complexities imposed by new technology. In a specialized version of the Electives Program, EEMT students gain priority enrollment in relevant courses and complete an additional course plus a faculty-mentored original research paper. They earn four additional graduate credits and recognition as Certificate recipients in studies highly relevant to the Navy and Nation. This first-ever NWC Certificate offering is voluntary and goes beyond the Master of Arts degree. Selection is limited to a small number of highly-motivated students and determined on a case-by-case basis.

Learning Objectives

- Examine the ethical and military relevance of emerging technologies such as artificial intelligence, genetic manipulation, neuro-enhancements, cyber, cryptology, nanoengineering, 3D printing, robotics, unmanned systems (air, surface, and maritime), etc.
- Apply ethical reasoning to the challenges and consequences of rapid technological change in the modern security environment.
- Formulate an original perspective on a chosen topic concerning current or potential technologies and their ethical implications for the profession of arms.

Requirements

- Complete four Elective courses from the EEMT list. "EL 730 Ethics and Technology" (fall trimester) is required for all EEMT students.
- Complete a high-quality, faculty-mentored, ~25 page professional paper in the third trimester. This counts as a fifth Elective course and is worked on throughout the year.

EEMT Elective Courses

- Students must successfully complete four courses from the list below. "EL 730 Ethics and Technology" is mandatory. The remaining three courses must include at least one Ethics and one Technology course from this list, and course selection each trimester is governed by Wednesday or Thursday availability. The list is subject to modest change.

Ethics

Fall

- EL 730 Ethics and Technology: Warfare, Society, and the Third Offset Strategy (**Required Course**)
- EL 592 Foundations of Moral Obligation
- EL 686 Perspectives on Operational and Strategic Leadership
- EL 718 Pen and Sword: Leadership and the Literature of War
- EL 734 Cross-Cultural Competence and Adaptive Leadership

Winter

- EL 592 Foundations of Moral Obligation
- EL 594 Ethics and the Military: A Multidisciplinary Approach
- EL 748 Leadership and War Viewed through the Humanities

Spring

- EL 581 Faith and Force
- EL 592 Foundations of Moral Obligation
- EL 717 Strategy, Leadership, and Ethics in Thucydides' Peloponnesian War
- EL 718 Pen and Sword: Leadership and the Literature of War

Technology

Fall

- EL 730 Ethics and Technology: Warfare, Society, and the Third Offset Strategy (**Required Course**)
- EL 520 Ballistic Missile Defense (Sec)
- EL 627 Biological & Chemical Agents and their use in Warfare and Terrorism (Sec)
- EL 681 Information Operations and Cyber Warfare (TS/SCI)
- EL 720 Unmanned Systems and Conflict in the 21st Century

Winter

- EL 713 Operations in Cyberspace (Sec)
- EL 729 Nuclear Arms Control, Disarmament, and Nonproliferation

Spring

- EL 508 Seminar on Space Technology and Policy (TS/SCI)
- EL 605 Science, Technology, & Strategy
- EL 660 Cybersecurity
- EL 674 Non-Lethal Weapons: Supporting the Operational Art Across the Range of Military Operations
- EL 720 Unmanned Systems and Conflict in the 21st Century