



What is the Future Warfare Seminar?

This 40-hour seminar investigates future warfare concepts for application within complex adaptive Army enterprises. It is comprised of eight post-graduate lessons.

Who is it for?

The Future Warfare Seminar is targeted at senior Army Civilians and service members to include:

- General Schedule (GS) 13-15*
- Lieutenant Colonel / Colonel
- Sergeants Major
- Chief Warrant Officer 4/5

**Others may be approved with permission*

What will I do?

1. Receive instruction on 8 post-graduate leadership topics from world-class faculty
2. Participate in weekly discussion forums
3. Participate in formative exercises

How to enroll?

Prospective participants have two options:

1. Enroll as an individual participant
2. Coordinate to sponsor an iteration and enroll as part of the sponsor's allocation

Visit the AMSC website's FWS page for contact information (see back flap).

How is it conducted?

A uniquely structured andragogical learning experience, the FWS is primarily delivered in a 4-week virtual setting which requires 10-hours of work per week by each participant.

Each week follows a standard battle rhythm:

- **Monday and Tuesday:** Pre-work (targeted reading/videos) and discussion forum.
- **Wednesday:** 5.5 hours of collaborative class-time comprised of:
 - ✓ SES/GO Guest Speakers
 - ✓ Stage Setter Exercises
 - ✓ Two lessons instructed
- **Thursday and Friday:** Deliverable production by students. Virtual office hours for 2 hours per day.

The FWS can be delivered in a face-to-face setting with prior coordination.

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Future Warfare Seminar



AMSC Army Management Staff College

250 Gibbon Ave, Fort Leavenworth, KS 66027

The premier leader development experience, igniting the leadership potential of every Army Civilian

Future Warfare Seminar (FWS)

OE to 2050

This foundational lesson describes the operational environment from the present until 2050, which includes the Era of Accelerated Human Progress (2017-2035) and the Era of Contested Equality (2035-2050). Participants review Multi-Domain Operations, Gray Zone competition, Black Swan events, and other relevant concepts, as well as investigate critical future trends.

Cognitive Warfare and Asymmetric Ethics

This lesson investigates concepts central to warfare in the human dimension. Addressing both physiological and psychological means to compel an adversary to one's will, this lesson presumes future warfare will seek to alter key decision maker cognition. This lesson also addresses ethical asymmetries among future adversaries.

Systems Warfare

Given future wars will be decided by disrupting, disabling, and destroying the opposition's various systems, this lesson identifies systems warfare characteristics. Participants define what a system is, including a complex adaptive system (CAS). They also identify CAS types, investigate systems theory and systems thinking, review systems warfare theory, and explore Chinese and Russian systems theories.

"Any investigation of the future is inherently flawed...However, we have to start thinking about the nature and character of future warfare."

"What will future warfare be like? I cant tell you...I can only tell you what it won't be like, and that's contemporary or past wars."

"Sometime we need to engage in dystopian thought. At some point, science fiction becomes science fact."

Mosaic/Quantum Warfare

This lesson describes basic concepts pertaining to mosaic warfare and quantum warfare. Participants define mosaic warfare and quantum warfare, compare static kill chains vs. dynamic kill webs in the OODA Loop, and explore dynamic force posturing and force deployment vis-à-vis China's actions and the Pacific Pivot.

Cyber Warfare

This lesson reviews cyber warfare theory. Participants not only investigate cyberspace characteristics and attributes, they also are exposed to concepts such as coercion theory, bargaining power, and deterrence vs. compellance. The lesson is rounded out with analysis of Stuxnet and the North Korean attack on Sony.

Space Warfare

This lesson investigates space warfare. Participants define space war and space warfare, to include space operations, forces, systems, control, conflict, competition, superiority, and sovereignty. Participants further describe the weaponization of the space domain and review future space trends.

Decision Making/C2 in 2050

This lesson describes decision making in 2050. Participants review command and control (C2), to include those oversight actions or activities which direct, supervise, and/or control an armed force. Participants also investigate the distinction between positive control and procedural control and the importance of autonomous decision systems as well as describe algorithmic decision making.

Entity vs. Rejectionistas

Throughout the seminar, participants have been exposed to concepts associated with virtual, systems, mosaic, space, and cyber warfare, as well as information regarding the OE and decision making in 2050. This exercise enables seminar participants to put the concepts in the lessons to practice.