



## Class Time

Lecture/Discussion/Guest Speakers	60%
Table Top Exercise (TTX)	20%
Student Briefings	10%
*Range	10%

\*Range Day is held at participating military institutions with the exception of Joint Forces Staff College (JFSC). JFSC is scheduled to host Range Days in the near future.

## Workload

Approx. 45-90 minutes of required reading for each class

Actively engage in classroom discussions

Student-selected teams will be responsible for developing a tactical, operational, or strategic scenario that uses non-lethal technologies to provide course of action and/or planning factors

Last class day, each team will conduct a 15-min. presentation and submit a 1-2 page "scenario" paper

## Assessment

Class Participation	40%
Scenario Briefing	40%
Information Paper	20%



Military institutions at which Penn State conducts the elective course **Non-Lethal Weapons: Supporting the Operational Art Across the Range of Military Operations** include: the U.S. Army Command and General Staff College, U.S. Army War College, U.S. Marine Corps Command and Staff College, Naval War College, Air War College, National Defense University and Joint Forces Staff College .

## Additional Information

### Course Author and Penn State University POC:

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### Joint Non-Lethal Weapons Directorate POCs:

Mr. Mike Durnavich

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MAJ Jason Sama, USA

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### JCS J7 Joint Professional Military Education Division POC:

703-692-7252

<http://jnlwp.defense.gov>



# Non-Lethal Weapons: Supporting the Operational Art Across the Range of Military Operations

**Elective Course**



## Course Description

The course curriculum includes discussion applications of non-lethal capabilities across the spectrum of conflict and in escalation-of-force situations. The course not only gives students a better understanding of the applicability of non-lethal capabilities in an operational environment, but also makes them aware of unique factors to be considered during operational planning. It also provides students an overview of future non-lethal capabilities.



## Elective Course Overview

The Elective Course Instruction includes the following:

- Range Day
- Course Introduction
- Current/Developmental Non-Lethal Technologies
- Non-Lethal Capability Sets and Escalation-of-Force Modules
- Directed Energy Non-Lethal Technologies
- Non-Lethal Communications Synchronization
- Legal Factors and Considerations
- Non-Lethal Weapons in Support to Homeland Defense
- Non-Lethal Weapons in Support of Defense Support of Civil Authorities

## Non-lethal weapons

enable immediate and proportionate force application to safely determine intent, incapacitate suspect individuals, disable and stop vehicles and vessels, and deny areas.

While never intended to replace lethal force, non-lethal weapons employment short of lethal engagements demonstrates our intent to minimize civilian casualties to the local populace, allies and partners and international audiences.

As an operational commander, I have witnessed first-hand the many tactical challenges when operating near or among the local populace, and the nexus between reducing civilian casualties and achieving strategic military goals. The use of non-lethal weapons to complement lethal weapons provides a level of tactical agility and versatility that is tailor made for environments requiring immediate and varying force escalation.

This 16-hour elective provides military leaders an innovative approach to how we fight, how we posture our forces, and how we leverage our asymmetric strengths and technological advantages across the full spectrum of possible operations.

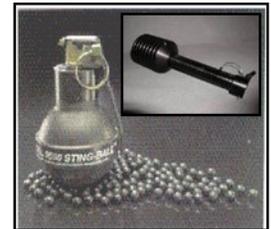
Lieutenant General Ronald L. Bailey, USMC  
Deputy Commandant,  
Plans, Policies and Operations, HQMC  
Chairman, Joint Integrated Product Team,  
DoD Non-Lethal Weapons Program



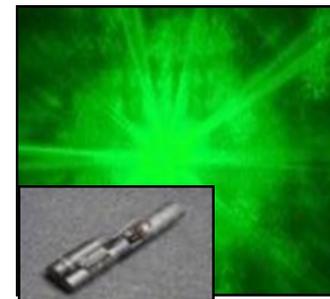
Flash Bang Grenades



Acoustic Hailing Devices



Stingball Grenades & Launch Cups



Optical Distractors

