

7/14/2019 draft

[PROPOSED "MODEL" COURSE FOR NATIONAL FIRE ACADEMY]

We are consulting with these Additional Resources: FBI; DHS; Hamilton County Communications; Cincinnati Fire Department; Blue Ash Police Department; Local Emergency Planning Committee.

# TERRORISM & CYBERSECURITY

FST 3021 - Fall 2 (online, 7 weeks: 10/16/2019 – 12/7/2019)

## Faculty / Subject Matters:

- Larry Bennett – Program Chair / Attorney: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS**
- Brian Canteel – Greater Cincinnati HAZMAT Unit / retired US Army Colonel: **HAZMAT / WMD**
- Steve Kelly – Fire Chief, Miami Township FD: **INCIDENT COMMAND / ACTIVE SHOOTER**
- Josh Gilliam – Cybersecurity Consultant: **CYBERSECURITY / WORKPLACE PROTECTION**

## Textbooks:

- [911 Commission Report](#)
- Homeland Security – Safeguards The U.S. From Domestic Catastrophic Destruction (2016), edited by Richard White; Tina Bynum; Stan Supinski.

**Assignments:** 3 assignments each Sat. & Wed

Three assignments:  
Textbook: 1-page memo  
Terrorists: 1-page memo  
Video: 3-5 minutes

- Sat. – Oct. 19, 2019

Steve: **TEXTBOOK: [911 Commission Report](#)**  
Chap. 1 - "WE HAVE SOME PLANES"

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS**  
Prof. Bennett's Current Events folder; also: [Terrorism Trials & Investigations](#)

Steve: **Student video: INCIDENT COMMAND / SCHOOL SHOOTING: Marjorie Stoneman Douglas High School, Parkland, Florida (Feb. 14, 2018) - discuss with a**

**senior Fire Department officer the training they have done with law enforcement on Rescue Task Force or similar joint response programs.**

After Watching:

[SCHOOL SHOOTER / VIDEOTAPED LECTURE \(Oct. 17, 2018\)](#)

Jun Cho  
Sergeant  
Blue Ash Police Department  
4343 Cooper Rd.  
Work: 513-745-8562, Extension: 1562  
[jcho@BlueAsh.com](mailto:jcho@BlueAsh.com)

Watch his [Oct. 17, 2018 videotaped presentation](#)

And reading:

[“K-12 School Security: A Guide for Preventing and Protecting against Gun Violence” \(2nd Edition; July 2018\)](#)

[“Active Shooter Incidents: The Rescue Task Force Concept” \(Sept. 20, 2017\)](#)

- Wed – Oct. 23, 2019

Steve: **TEXTBOOK: [911 Commission Report](#)**

Chap. 12 - “What To Do? A Global Strategy

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof. Bennett’s Current Events folder

Steve: **Student Video: INCIDENT COMMAND / MASS CASUALTY: Las Vegas Shootings (Oct. 1, 2017) – discuss with senior law enforcement official the lessons learned on Incident Command at this event, and the training in Unified Command that has occurred in your community.**

After watching:

[TERRORIST DRONES / VIDEOTAPED LECTURE \(Oct. 17, 2018\)](#)

Lt. Steve Schueler  
Blue Ash Police Department  
4343 Cooper Road  
Blue Ash, OH 45242  
Work: (513) 745-8571  
[sschueler@blueash.com](mailto:sschueler@blueash.com)

And reading:

[Mass Attacks In Public Spaces \(July 9, 2019\)](#)

[West Point – Combatting Terrorism Center](#)  
[\(July 11, 2018\)](#)

- Sat – Oct. 26, 2019

Steve: **TEXTBOOK: Homeland Security**  
Chap. 1 - Turning Point

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett's Current Events folder

Steve: **Student Video: INCIDENT COMMAND: Pulse Nightclub, Orlando (June 12, 2016): Discuss with an EMS officer about lessons learned in Incident Command for EMS responders.**

- Wed – Oct. 30, 2019

Steve: **TEXTBOOK: Homeland Security – Part I: “Hard Lessons”**  
Chap. 4 – And They Saved Many

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett's Current Events folder

Steve: **Student Video: INCIDENT COMMAND: Boston Marathon Bombings (April 15, 2013); discuss lessons learned in this mass casualty event, and your local hospitals disaster response plan.**

- Sat. – Nov. 2, 2019

Steve: **TEXTBOOK: Homeland Security**  
Chap. 5 – Not By Chance

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett's Current Events folder

Josh: **Student Video: CYBERSECURITY – Fire & Police Departments: discuss with a local fire or police department.**

After reading:

TEXTBOOK: Homeland Security: [Chap. 16 - Cybersecurity](#)

[“The Emerging Cyberthreat: Cybersecurity for Law Enforcement”](#) (Dec. 12, 2018)

**Additional Resources:**

**CINCINNATI FIRE DEPARTMENT**

Curtis Goodman

District Chief

Work: 513-352-2327

Cell: 513-316-4219

[Curtis.goodman@cincinnati-oh.gov](mailto:Curtis.goodman@cincinnati-oh.gov)

Lt. Steve Schueler

Blue Ash Police Department

4343 Cooper Road

Blue Ash, OH 45242

Work: (513) 745-8571

[sschueler@blueash.com](mailto:sschueler@blueash.com)

- Wed – Nov. 6, 2019

Steve: **TEXTBOOK: Homeland Security**

Chap. 6 – Surpassing Disproportion

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.

Bennett's Current Events folder

Josh: **Student Video: CYBERSECURITY – 911 COMMUNICATIONS:  
discuss with a 911 dispatch manager.**

After watching:

[Lecture by Josh Gilliam](#): Oct. 17, 2018

After reading:

["How to Mitigate Cybersecurity Threats to Public Safety Communications Systems"](#) (Dec. 11, 2018)

**Additional Resources:**

Andrew W. Knapp, O.F.E.

Director

Hamilton County Communications

2377 Civic Center Drive

Cincinnati, Ohio 45231

Work: 513-595-8440

[Andrew.Knapp@hamilton-co.org](mailto:Andrew.Knapp@hamilton-co.org)

- Sat – Nov. 9, 2019

Steve: **TEXTBOOK: Homeland Security**  
Chap. 7 – Failure Of Imagination

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett’s Current Events folder

Josh: **Student Video: CYBERSECURITY – WATER, ELECTRICAL,  
OTHER MUNICIPAL SYSTEMS** - discuss with a municipal system manager.

After reading:

Russian operation hacked a Vermont utility, showing risk to U.S.  
electrical grid security, [officials say](#) (Dec. 31, 2016)

Lake City, FL: “[UPDATE: Lake City fires employee after paying ransom  
in malware attack](#)” (July 1, 2019)

Baltimore, MD: “[Hackers Won’t Let Up in Their Attack on U.S. Cities -  
Baltimore is still recovering month after more than one group breached its  
network](#)” (June 7, 2019)

Atlanta, GA: “[Why Are Cities So Vulnerable to Cyber Attack?](#)” (March  
30, 2018)

- Nov. 13, 2019

Steve: **TEXTBOOK: Homeland Security** – Chap. 8 – Failure of Initiative

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett’s Current Events folder

Josh: **Student Video: CYBERSECURITY – INTERNATIONAL  
COMPUTER HACKING AND RANSOMWARE;** hacking and ransomware;  
discuss with local FBI Special Agent.

After reading:

TEXTBOOK: HOMELAND SECURITY - Chap. 40 – FBI

“[GozNym Cyber-Criminal Network Operating out of Europe Targeting  
American Entities Dismantled in International Operation - Network  
Formed by Individuals Who Advertised their Specialized Technical Skills  
and Services on Underground Russian-Language Online Criminal  
Forums](#)” (May 16, 2019)

[“International Cybercrime Network Taken Down, Key Players Indicted In Pittsburgh”](#) (May 16, 2019)

[“Two Iranian Men Indicted for Deploying Ransomware to Extort Hospitals, Municipalities, and Public Institutions, Causing Over \\$30 Million in Losses”](#) (Nov. 28, 2018)

[“Three Members of Notorious International Cybercrime Group ‘Fin7’ In Custody for Role in Attacking Over 100 U.S. companies - Victim Companies in 47 U.S. States; Used Front Company ‘Combi Security’ to Recruit Hackers to Criminal Enterprise”](#) (Aug. 1, 2018)

FBI: [“Ransomware Victims Urged to Report Infections to Federal Law Enforcement”](#) (Sept. 15, 2016)

- Sat – Nov. 16, 2019

Steve: **TEXTBOOK: Homeland Security**  
Chap. 9 – Homeland Security

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof. Bennett’s Current Events folder

Brian: **Student Video: HAZMAT / CHEMICAL SECURITY** - discuss with your LEPC [Local Emergency Planning Committee] or DHS Chemical Security Inspector and discuss how they help local chemical companies improve security.

After watching lecture by Brian Canteel

**Additional Resources:**

Doug Witsken  
LEPC Coordinator  
Hamilton County  
Emergency Management & Homeland Security Agency  
2000 Radcliff Drive, Cincinnati, OH 45204  
Work: 513-263-8013  
Cell: 513-312-3242  
[doug.witsken@hamilton-co.org](mailto:doug.witsken@hamilton-co.org)

**DHS CHEMICAL SECURITY**

Frank D. Blair, Supervisory Chemical Security Inspector, Region V

W: 202-650-7780

[Frank.blair@hq.dhs.gov](mailto:Frank.blair@hq.dhs.gov)

- Wed – Nov. 20, 2019

Steve: **TEXTBOOK: Homeland Security**

Chap. 10 – DHS Formation

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.

Bennett's Current Events folder

Brian: **Student Video: CRITICAL INFRASTRUCTURE PROTECTION** – discuss with a manager of a critical infrastructure facility (public or private) in your community, including improving your Fire Department's disaster response plan for that facility.

After reading: **TEXTBOOK – HOMELAND SECURITY:** Chap. 14 – Critical Infrastructure Protection

**Additional Resources:**

Gregory A. Howard, Protective Security Advisor – Cincinnati District

Cell: 513-526-1018

[Gregory.howard@hq.dhs.gov](mailto:Gregory.howard@hq.dhs.gov)

- Sat – Nov. 23, 2019

Steve: **TEXTBOOK: Homeland Security**

Chap. 11 – DHS Evolution

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof. Bennett's Current Events folder

Brian: **Student Video: WMD, including Improvised Explosive Devices: watch a DHS "Virtual Instructor Led Training" (VILT) course and discuss how you might improve your Fire Department's training regarding IEDs.**

After reading: **TEXTBOOK – HOMELAND SECURITY -** Chap. 15 - Counter WMD Strategy

See also:

[Improvised Explosive Device \(IED\) Search Procedures Course](#)

And:

[AWR-333: Improvised Explosive Device Construction and Classification](#);  
[AWR-337: Improvised Explosive Device Explosive Effects Mitigation](#); and  
[AWR-338: Homemade Explosive and Precursor Awareness](#).

**DHS PROTECTIVE SECURITY**  
Michael McMasters  
Protective Security Advisor  
Cleveland, OH  
[Michael.mcmasters@hq.dhs.gov](mailto:Michael.mcmasters@hq.dhs.gov)

Steve: **TEXTBOOK: Homeland Security**  
Chap. 12 – DHS Progress

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof. Bennett's  
Current Events folder

Steve: **Student Video – FUSION CENTERS** – contact a Fusion Center in your state and  
discuss how fire service is involved.

After reading:

DHS: [State and Major Urban Area Fusion Centers](#)  
[Greater Cincinnati Fusion Center](#)

- Wed – Dec. 4, 2019

Steve: **TEXTBOOK: Homeland Security**  
Chap. 39 – National Guard

Larry: **TERRORISTS IN USA / ARRESTS & PROSECUTIONS:** Prof.  
Bennett's Current Events folder

Steve: **Student Video: NATION GUARD** - discuss with a senior officer in your  
state's National Guard about joint training opportunities with fire service.

After reading: TEXTBOOK: HOMELAND SECURITY - Chap. 39 -  
National Guard

- Sat - Dec. 7, 2019

**TERM PAPERS**

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## **OTHER RESOURCES FOR TERM PAPERS:**

### **FBI:**

[“A Behavioral Study of American ‘Homegrown’ Terrorist Offenders”](#) (Oct. 2018):

[Pre-Attack Behaviors of Active Shooters in the U.S. 2000-2013](#) (Sept. 2018):

[Making Prevention a Reality: Identifying, Assessing, and Managing the Threat of Targeted Attacks](#) (2017)

West Point – Combatting Terrorism Center

[“From Battlefield to Cyberspace: Demystifying the Islamic State’s Propaganda Machine”](#)  
(June 5, 2019):

[The British Hacker Who Became the Islamic State’s Chief Terror Cybercoach: A Profile of Junaid Hussain](#) (April 2018):

**Teaching About Terrorism** [[used at FDNY](#)]

**[Combating Terrorism Center](#) – West Point**

**[Center For Homeland Defense & Security](#)** [UC Fire Science is a member of their University and Agency Partnership Initiative]

See their [Master’s degree thesis](#)

See their [self-study courses](#)

- The Global Jihadi Threat
- Intelligence for Homeland Security: Organizational and Policy Challenges
- Counterterrorism in the United Kingdom
- Social Network Analysis: An Introduction
- Deception Detection Techniques
- Research Process and Methods
- Understanding Terrorism: A Social Science View on Terrorism
- Transportation Security
- Terrorist Financing and State Response
- Homeland Security in Israel

Also from the Center:

- [Radiological Emergency Preparedness \(REP\) Executive Education Program](#)
- [Advanced Thinking in Homeland Security](#)