Northwestern
CENTER FOR PUBLIC SAFETY

WINTER - SPRING 2020
CURRENTLY SCHEDULED COURSES

PUBLIC SAFETY MANAGEMENT & LEADERSHIP
CRASH INVESTIGATION & RECONSTRUCTION
TRANSPORTATION ENGINEERING
CRIME SCENE INVESTIGATION & FORENSIC SCIENCE
POLICE TRAINING
FROM THE EXECUTIVE DIRECTOR:

Public safety in the 21st century is evolving more rapidly than ever. Communities and their agencies face threats and challenges that heretofore have not existed. To help combat these issues, local law enforcement agencies are developing, adopting, and promoting policies that improve safety and encourage police-community relations.

Law enforcement, fire, and other public safety agencies now are expected to operate at levels of transparency that did not exist 10 years ago. In response to this new environment, agency leadership styles and competencies must transition from the authoritative style that has traditionally dominated the field to more inclusive approaches that enable and empower rather than dictate.

NUCPS continues to meet the needs of this new environment and excels in offering the most relevant programs and curriculum in public safety leadership, management, and specialized police training.

Please take a moment to review our currently schedule courses for Winter / Spring 2020. Each course is designed to help raise the quality of life within the communities you serve and to enhance your public safety career and professional development.

We look forward to working with you and your colleagues as you further your professional education at NUCPS.

Sincerely,

David P. Bradford
Executive Director
Northwestern Center for Public Safety

Host a NUCPS Course

Each year, agencies across the US host NUCPS courses, creating opportunities for local and regional law enforcement and other public safety professionals to enhance their education closer to home, saving time and money.

BENEFITS
The host agency can receive a specific number of free seats, determined by the number of paying students in the course.

COSTS
No out-of-pocket costs are due to Northwestern. NUCPS handles registration and tuition billing.

WE PROVIDE
• Instructors & all course materials.
• Brochures, fliers, and examples of course announcements.
• Course listing on the NUCPS website, in advertising on policetraining.net, in email blasts, and in our newsletter.

HOST AGENCY PROVIDES
• Course promotion to local agencies. This may include mailings, e-mailings, presentations, phone calls, social media, advertising, and PR;
• Suitable classroom in terms of size, internet access, and general course requirements; and,
• Contact person to assist instructors during the course.

LENGTH OF COURSE
Courses vary in length. NUCPS can work with hosts to determine the number of days and class hours.

PLAN AHEAD
NUCPS recommends planning at least 9 – 12 months in advance. This lead time will help the host agency and NUCPS promote the course and allow potential participants to secure funding.

FOR MORE INFORMATION
Visit nucps.northwestern.edu/hostacourse, email nucps@northwestern.edu, or call (800) 323-4011.
EXECUTIVE MANAGEMENT PROGRAM

Designed for upper-level public safety managers and leaders to explore trends and confer with peers on topical issues and challenges. This two-week program incorporates an effective blend of lecture and discussion.

- Feb. 10 - 28, Elmhurst, IL, $1,000

Required for the Executive Leadership Award.

SUPERVISION OF POLICE PERSONNEL

“A great first-line supervision course and . . . a great refresher for experienced senior supervisors. The instructor was very engaging, clearly experienced, and knowledgeable.” — Senior Agent Tom Carrell, Medina County (OH) Drug Task Force

Unsurpassed management training for professionals who are new to — or soon-to-be promoted to — supervisory roles.

Price: $1,000 online or classroom

- Jan. 6 - 16, 2020, Tempe, AZ
- Jan. 6 - Mar. 1, ONLINE
- Feb. 24 - Mar. 6, NUCPS, Evanston, IL
- Mar. 9 - May 3, ONLINE
- Apr. 13 - 24, 2020, West Allis, WI
- May 4 - Jun. 28, ONLINE

Required for the Executive Leadership Award.

For All Upcoming Course Details, Visit NUCPS.NORTHWESTERN.EDU

Register Online at: nucps.northwestern.edu/register
"The best leadership / management training I have attended in my 30-year career in law enforcement. I highly recommend this outstanding program to any law enforcement officer who desires to become a leader in their police department.”
— Lt. Nelson Whitney, Falls Township (PA) Police Department

The School of Police Staff & Command (SPSC) prepares law enforcement managers for senior positions by combining academic principles with practical applications. Since the program launched in 1983, it has received enthusiastic response from public safety executives throughout the country. In order to provide more flexibility for departments, the program is offered on-ground through the US, around the world, and online.

Required for the Executive Leadership Award.

<table>
<thead>
<tr>
<th>DATE</th>
<th>LOCATION</th>
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<tr>
<td>Jan. 6 - May 8</td>
<td>Plainfield, IL</td>
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<td>Jan. 6 - Mar. 20</td>
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<td>Ft. Worth, TX</td>
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<td>Mar. 2 - Aug. 2</td>
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<td>Mar. 9 - May 15</td>
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<td>May 4 - Oct. 4</td>
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For more information or to register, visit nucps.northwestern.edu/spsc
“Our department has long valued the importance of SPSC and the value of its content. SPSC is highly sought as a prerequisite to advance. Once I was able to attend, it was everything I expected and more. I was able to see why this course of instruction is so valuable to future leaders.”
— Sgt. Shannon Brinkley, Tennessee Highway Patrol

THE NUCPS PUBLIC SAFETY EXECUTIVE LEADERSHIP AWARD

Each year, NUCPS is proud to present the Executive Leadership Award to the candidates who have successfully completed the following classroom or online courses:

- Supervision of Police Personnel
- School of Police Staff & Command
- Executive Management Program.

Qualifying courses do not need to be taken in a specific order.

The NUCPS Executive Leadership Award represents a cumulative total of hundreds of hours of course work, homework, papers, study, and exams. Recipients are invited to receive their Executive Leadership Award at the NUCPS November SPSC luncheon.
“An outstanding program full of good information. It’s a relief to pull up to a crash with confidence you can find out whatever you need because of the training and teaching you received.”
— Trooper Austin Douglas, Louisiana State Police

COMPLETELY REVISED! CRASH RECONSTRUCTION 1 & 2

NUCPS has completed a top-to-bottom overhaul of Traffic Crash Reconstruction 1 & 2 series curriculum and materials. The new course material and lectures provide students with an exceptional theory-based environment and a wide range of hands-on case study applications. We have expanded core topics to provide exposure to further fundamental reconstruction theories, creating a strong professional foundation. The lecture - practicum process allows students with different learning styles to become comfortable with newly acquired knowledge.

Positive Reviews for the New Formats:

“The simulations used in the lecture presentation allowed visually inclined individuals to physically see the pre-, during, and after-collision results. I enjoyed the hands-on portion of the class . . . allowing students to begin ‘piecing the puzzle back together,’ and applying our learned equations and theory to a real-life crash.” — Officer Dillon Forkes, Lincolnshire (IL) Police Department

“Reconstruction 1 is a challenging course, but the manner in which it is presented keeps you interested . . . The instructors are top notch, and the case studies are unique. The case studies push you to think logically and apply the newly learned information to help make sense of how the crash occurred. Man, is it satisfying when you are on the right track!”
— Officer Wes Kumpula, Antioch (IL) Police Department
**REVISED! TRAFFIC CRASH RECONSTRUCTION 1**

Our renowned reconstruction course features a new format that focuses on the basics of traffic crash reconstruction. Students are immersed in such critical core material as:

- Engineering mechanics
- Vehicle behavior in collisions
- An introduction to human factors
- Time-distance analysis
- EDR usage in traffic crash reconstruction
- Post-collision drag factor analysis
- Momentum
- Special velocity calculations (e.g., sideslip, falls, vaults, and flips).

**REVISED! TRAFFIC CRASH RECONSTRUCTION 2**

Building upon the basics taught in Traffic Crash Reconstruction 1, the revised Traffic Crash Reconstruction 2 focuses primarily on energy-based analysis. During this course, students learn the principles of energy and damage energy, occupant behavior, momentum and energy analysis, and an introduction to force balance.

**Prerequisites:** Traffic Crash Reconstruction 1

**LAST CHANCE! TRAFFIC CRASH RECONSTRUCTION 2 (2010)**

Any student who completed Traffic Crash Reconstruction 1 before October 2019 but has yet to take Traffic Crash Reconstruction 2 no longer meets the prerequisites for the revised Traffic Crash Reconstruction 2. **For students in this situation, NUCPS is offering one final presentation of Traffic Crash Reconstruction 2 in its old format on February 17 - 21, 2020.**

**TRAFFIC CRASH RECONSTRUCTION 3**

Advanced concepts for better understanding and explaining real-world crash reconstruction. In-depth instruction is focused on Monte Carlo analysis and advanced concepts in energy and momentum.

**Prerequisites:** Traffic Crash Reconstruction 1 & 2

**TRAFFIC CRASH RECONSTRUCTION REFRESHER**

For the crash reconstructionist who is looking for a review of the basic physics used to analyze traffic crashes or for an overview of the newer technologies in the profession, such as EDR.

**Prerequisites:** Traffic Crash Reconstruction 1 & 2

**CRASH INVESTIGATION 1**

"Will make you think about crashes in a whole new way... Extremely informative and has good hands-on application. Once you finish with this course, you feel empowered to handle traffic crashes." — Sgt. Wayne Jakobitz, Bourbonnais (IL) Police Department

Instructs on investigating — rather than just reporting — traffic crashes. Based on Lynn Fricke and J. Standard Baker’s renowned text *Traffic Crash Investigation, 11th edition*, this is an in-depth study of systematic traffic crash investigation, including evidence recording, data collection, after-crash diagrams, and more.
CRASH INVESTIGATION 2
Students learn how to properly collect and initiate interpretation of information collected at a crash scene. Emphasizes vehicle behavior in crashes and analyzing damage with a focus on advanced mapping and evidence location skills. Provides participants with instruction on laser-based devices.
Prerequisites: Crash Investigation 1

VEHICLE DYNAMICS
Introduces students to the laws of physics and mechanics that relate to traffic crashes and prepares students for NUCPS crash reconstruction courses.
Prerequisites: Crash Investigation 1 & 2

HEAVY VEHICLE CRASH RECONSTRUCTION
Examines the unique characteristics of how heavy vehicles, especially articulated vehicles, perform in various crash scenarios. Emphasizes assessments of truck-braking systems, EDRs, tachygraphs, and gear positions. Includes seven hours of field testing and the opportunity to analyze and apply collected data.
Prerequisites: Traffic Crash Reconstruction 1 & 2

CDR TECHNICIAN
Learn the basic functions of the Bosch CDR system to image data confidently from vehicles using OBD-II Data Link Connector ports and directly from airbag control modules.

CDR ANALYST
The longest-standing, industry-standard training program for Bosch CDR Data Analyst Certification!
This important course is a natural extension of CDR Technician and also expands crash reconstruction skills. Provides students with detailed instruction in assessing information from EDRs and covers utilization in such reconstruction concepts as in such areas as momentum application and comprehension of delta-v and PDOF.
Prerequisites: CDR Technician. Traffic Crash Reconstruction 1 is encouraged.

ADVANCED CRASH RECONSTRUCTION UTILIZING HUMAN FACTORS RESEARCH
Learn to understand the human role in the crash sequence. Topics include how human decision, action, inaction, and other behaviors contribute to determining the how and why of a crash. Advanced curriculum also incorporates reaction time research, response delays and impairment, nighttime response scenarios, and IDRR and V*Star software tutorials.
Upon successful completion, students receive the Integrated Driver Response Research license from CSS, LLC, which provides each graduate the use of IDRR for one year and V*Star for three months.
Prerequisites: Traffic Crash Reconstruction 1, Excel proficiency.

“The reconstruction program has been challenging and rewarding.
The instructors have a good knowledge base to provide a great experience.”
— Trooper David Levy, Louisiana State Police
All classes are held at NUCPS, Evanston Campus, unless otherwise noted.

<table>
<thead>
<tr>
<th>CRASH &amp; RECONSTRUCTION COURSES</th>
<th>CEUS</th>
<th>DATE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Last Class in Old Format! Traffic Crash Reconstruction 2 (2010)</td>
<td>35 ACTARs</td>
<td>Feb. 17 - 21</td>
<td>$950</td>
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<tr>
<td>Revised! Traffic Crash Reconstruction 1</td>
<td>73 ACTARs</td>
<td>Apr. 20 - May 1</td>
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<td>Revised! Traffic Crash Reconstruction 2</td>
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<td>May 4 - 8</td>
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<td>Traffic Crash Reconstruction 3</td>
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<td>Feb. 24 - 28</td>
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<td>Traffic Crash Reconstruction Refresher</td>
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<td>Crash Investigation 1</td>
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<td>Crash Investigation 2</td>
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<td>Vehicle Dynamics</td>
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<td>Heavy Vehicle Crash Reconstruction</td>
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<td>CDR Technician</td>
<td>16 ACTARs</td>
<td>May 14 - 15</td>
<td>$300</td>
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<td>CDR Data Analyst</td>
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<td>May 18 - 22</td>
<td>$750</td>
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<tr>
<td>Advanced Crash Reconstruction Utilizing Human Factors Research</td>
<td>40 ACTARs</td>
<td>May 11 - 15</td>
<td>$950</td>
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For more information or to register, visit nucps.northwestern.edu/crash
INTERSECTION DESIGN & CHANNELIZATION WORKSHOP
Covers the principles of intersection and channelization design, identification and treatment of intersection deficiencies, and redesign of existing intersections. Includes lecture, workshop, and design project.
• Jan. 15 - 17, 2020, $825, NUCPS Evanston

CRASH RECONSTRUCTION FOR TRAFFIC ENGINEERS
Traffic engineers learn to assess the quality of data collection and analysis contained in police crash reports as well as to conduct an independent investigation to determine the cause of a crash and the potential involvement of the roadway design and operation factors in a traffic crash.
• Feb. 10 - 14, 2020, $1150, NUCPS Evanston

TRAFFIC & TRANSPORTATION ENGINEERING SEMINARS 1 AND 2
3.4 CEUs, 35 PDHs each
These consecutive seminars offer the latest theory and application of the functional capabilities of traffic signal controllers and systems for creating optimum efficiency and safety of traffic flow at intersections, on street systems, and in roadway networks.
• Seminar 1: Feb. 17 - 21, 2020, $850, Evanston
• Seminar 2: Feb. 24 - 28, $850, Evanston
CRIME SCENE INVESTIGATION & FORENSIC SCIENCE

Our multidisciplinary program emphasizes disciplined processes for maintaining quality and improving efficiency, developing proven skills for real-world applications, and making decisions that advance criminal investigations.

CRIME SCENE TECHNOLOGY 1: A MULTIDISCIPLINARY APPROACH TO THE CRIME SCENE PROCESS

“Well taught, simple to understand, and comprehensive.” — Officer Ryan Schloesser, Shorewood (IL) Police Department

Obtain a strong foundation in crime scene process, including: approaching, searching, and assessing crime scenes; recording notes, sketches, and diagrams; identifying, collecting, and developing evidence; utilizing the forensic laboratory; understanding the significance of bloodstain evidence in criminal investigations; and, more. A hands-on course featuring lab projects.  
*Meets certification requirements through the International Association for Identification (IAI).*

CRIME SCENE TECHNOLOGY 2: A CRIME SCENE PRACTICUM

With minimal lecture and maximum hands-on lab experience, this accelerated course focuses on developing and enhancing physical evidence. Students learn techniques and methods for using equipment, chemicals, and forensic light sources and photographic evidence, as well as documenting bloodstain patterns, constructing 3D diagrams, and developing courtroom presentations and testimony.  
*Meets certification requirements through the International Association for Identification (IAI).*

**Prerequisites:** Crime Scene Technology 1 is strongly encouraged.
**CRIME SCENE TECHNOLOGY 3: ADVANCED TECHNIQUES**

Features advanced chemical and light-source enhancement techniques, expert methods for documenting and preserving trace evidence, and professional photographic documentation of processed evidence. With its hands-on approach, this course offers opportunities to experiment and actively learn from group participation. Group projects involve simulated case evidence, lab process, photo documentation, and preserving processed evidence.

*Meets certification requirements through the International Association for Identification (IAI).*

**Prerequisites:** Crime Scene Technology 2.

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**BLOODSTAIN EVIDENCE 1**

Detectives, crime scene technicians, crime lab personnel, and investigators can all benefit from this course that teaches students how to preserve bloodstains and patterns through notations, measurements, photography, and sketches. Participants also learn to preserve crime scenes, evaluate circumstances and statements, reconstruct chains of events, collect stains for analysis, and prepare cases for trial.

*Meets membership requirements for the IABPA and partial certification requirements for the IAI.*

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**BLOODSTAIN EVIDENCE 2**

Features an in-depth review of bloodstain pattern identification and analysis. Students learn how to make sophisticated interpretations of bloodstain evidence obtained at the crime scene and gain proficiency correlating stains and patterns with body trauma through documentation and reconstruction techniques.

*Meets membership requirements for the IABPA and partial certification requirements for the IAI.*

**Prerequisites:** Bloodstain Evidence 1.

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**HOSTAGE NEGOTIATIONS**

Provides negotiators with the skills needed to effectively handle hostage and barricade situations. Classroom instruction is combined with real-world case studies and numerous role-playing exercises.

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**INTERVIEW & INTERROGATION TECHNIQUES**

Sharpen professional interview and interrogation skills in this course that is designed for today's criminal investigators. Students acquire the knowledge needed to obtain voluntary and court-defensible statements that are relevant to the criminal matter at hand. This course helps enhance the investigator's ability to reveal the truth through developing rapport, creating a positive environment for interpersonal communication, reducing acrimony, and effectively challenging deception.

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**All New in 2020! Forensic Certifications**

NUCPS is anticipating the rollout of three brand new NUCPS forensic certifications!

Watch your email and the NUCPS website for details on these exciting new certification programs:

- Crime Science Technician
- Blood Splatter Analyst
- Forensic Photography
All classes are held at NUCPS, Evanston Campus, unless otherwise noted.

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<th>POLICE TRAINING COURSES</th>
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<tbody>
<tr>
<td>Crime Scene Technology 1</td>
<td>Apr. 6 - 10</td>
<td>$1,475</td>
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<tr>
<td>Crime Scene Technology 2</td>
<td>Apr. 13 - 17</td>
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<tr>
<td>Crime Scene Technology 3</td>
<td>Apr. 20 - 24</td>
<td>$1,475</td>
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<tr>
<td>Bloodstain Evidence 1</td>
<td>Apr. 27 - May 1</td>
<td>$1,375</td>
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<td>Bloodstain Evidence 2</td>
<td>May 4 - 8</td>
<td>$1,375</td>
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<td>Hostage Negotiations</td>
<td>Jan 13 - 17</td>
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<tr>
<td>Interview &amp; Interrogation Techniques</td>
<td>Jan. 27 - 29</td>
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For Course Details, Visit nucps.northwestern.edu/forensics
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<tr>
<td>Gulfport, MS</td>
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<td>Instructor Recertification</td>
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<td>Operator Training</td>
<td>Jan. 13 -24</td>
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<td>Charlotte, NC</td>
<td>Instructor Training</td>
<td>Mar. 2 - 20, 2020</td>
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<td>Operator Training</td>
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<td>Springfield, MO</td>
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<td>Kokomo, IN</td>
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<td>May 4 - 22, 2020</td>
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<td>Instructor Recertification</td>
<td>May 5</td>
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<td></td>
<td>Operator Training</td>
<td>May 11 -22</td>
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For Course Details, Visit nucps.northwestern.edu/motorcycle