

Management and Leadership
Highway Safety
Crime Scene and Forensic Science
Police Motorcycle
Community-Police Partnerships
Every Dimension of Public Safety
Only at Northwestern



**Your career. Your agency.
Your community.**

EVERY
DIMENSION
OF PUBLIC
SAFETY

The Northwestern University Center for Public Safety is the go-to source for public safety education — providing professional courses for executives, managers, officers, and specialists. We work with all types of law enforcement agencies to advance careers, build cohesive teams, and create safer communities.

Achieve Your Goals

COURSES OFFERED AROUND THE WORLD AND ONLINE

Northwestern University Center for Public Safety offers courses at the Northwestern campus in Evanston, Illinois, just north of Chicago and at convenient locations around the world. Many courses are also available online.

EASY ONLINE REGISTRATION

Go to our website at nucps.northwestern.edu. Select a course, create an account, complete a registration for the person attending, and pay by credit card or with a purchase order.

DISCUSS YOUR GOALS

Our team can assist individuals and agencies in selecting courses that achieve their goals, and we can provide information on every aspect of the process — from budgeting and managing schedules to registration and course preparation. Connect with our specialists by email, nucps@northwestern.edu, or by calling 800-323-4011.

Complete Course Listings

We open new classes throughout the year. To view the current schedule go to p. 22 of this program guide. For the most up-to-date schedule, check online at nucps.northwestern.edu.

ONLY AT
NORTHWESTERN

Experience the Northwestern Advantage

1. THE MOST INFLUENTIAL CENTER IN PUBLIC SAFETY

Thousands of Northwestern graduates are serving in agencies and organizations throughout the U.S. and around the world — creating the future of law enforcement and addressing the most challenging issues in public safety.

2. COMPREHENSIVE CURRICULUM

Northwestern offers the most comprehensive education program in public safety. With more than 50 courses offered, Northwestern serves organizations of all sizes and public safety professionals at every stage of their career. The depth and breadth of our programs enable you to find the right course at the right time and in a convenient location.

3. NATIONALLY RECOGNIZED FACULTY

Our faculty defines excellence in public safety education — combining academic leadership with on-the-job experience to provide professional education with a leadership perspective.

4. DELIVERING IMPACT FROM DAY ONE

Northwestern advances skills and techniques, builds analytical capacity, and improves agency-wide performance. This enables agencies to reduce risk, avoid liability, drive efficiency, and advance strategic goals.

5. A PROFESSIONAL NETWORK, LEADERSHIP COMMUNITY

Northwestern students build relationships with instructors, other graduates around the world, and leaders in the public safety community. These relationships translate into a lifetime of friendships and professional opportunities.

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PROGRAMS
AND
COURSES

Hosting a Northwestern University Public Safety Course

On-site at the location of your choice. Receive free tuition for up to 4 students. Be recognized as a leader in advancing education.

Every year, agencies around the country host Northwestern University Public Safety courses — creating opportunities for local law enforcement to attend Northwestern's exceptional programs closer to home, saving time and saving money.

BENEFITS

The Host Agency can receive up to four free seats depending on the number of paying students in the class. The free seats can be used for Host Agency personnel or can be sold to other agencies.

COSTS

There are no out-of-pocket costs due and owing to Northwestern. In most circumstances, Northwestern will handle registrations and billing for the tuition.

NORTHWESTERN PROVIDES

- Outstanding instructors and all course materials.
- Brochures, fliers and examples of course announcements.
- Course listing on the Northwestern web site and advertising on policetraining.net.

HOST AGENCY PROVIDES

- Course promotion to local law enforcement agencies about location, dates, cost, qualifications, and possible accommodations. This may include mailings, presentations, calls, social media, advertising, and public relations.
- Suitable classroom in terms of size, internet access, and general course requirements.
- A contact person to assist instructors during the course.

NUMBER OF STUDENTS AND TUITION

The class size and tuition can vary depending on the course.

LENGTH OF THE COURSES

Course can vary in length and Northwestern can work with the host to determine the number of days and class hours.

HOTEL, MEALS AND TRANSPORTATION

Hosts may provide options and recommendations or class participants but are not required to book hotels, schedule meals, transportation.

PLANNING AHEAD

We recommend planning at least nine months in advance — and preferably one year in advance. The lead-time the host agency to promote the course and allows potential attendees to secure funding and arrange for officers and staff to attend.

FINDING ATTENDEES

A valuable part of any course experience is the interaction students have with officers from other agencies. To maximize that benefit, Northwestern recommends that no more than half of the students in the class be from the same agency.

HOSTING

For more information on hosting a course

Send an email to nucps@northwestern.edu or call us at 800-323-4011



Prepare to Lead.

MANAGEMENT
AND
LEADERSHIP

Generations of Northwestern graduates are actively shaping the future of public safety with community-focused goals, proven leadership skills, and sound policies. Whether a student is moving into supervision for the first time or is an experienced leader looking to gain additional insight to meet strategic goals, our program is practical, flexible, and invaluable.

Fact | Northwestern conducts classes and research projects in North America, Western Europe, the Middle East, Far East, South America and Africa.

MANAGEMENT AND LEADERSHIP

SUPERVISION OF POLICE PERSONNEL

Two-week course.

On-site and instructor-led online courses.

A must for new supervisors, soon-to-be promoted officers, and officers who seek promotion as well as experienced supervisors who have not had formal supervisory instruction or development.

The course focuses on how to overcome contemporary leadership challenges by understanding human behavior and day-to-day work relationships with subordinates, superiors, and the public.

Students learn how to effectively motivate, evaluate, and discipline employees in order to successfully carry out the visions of their law enforcement agencies.

Course instructors are police managers (active or retired) who combine extensive experience with solid academic credentials.

SCHOOL OF POLICE STAFF AND COMMAND (SPSC)

Intensive ten-week on-site program.

Offered at Northwestern and locations around the U.S.

Twenty-week online program.

The curriculum combines academic principles with practical public-safety specific strategies for application, and is based on adult- and problem-based learning models.

Students are expected to have at least two years of supervisory experience and should be prepared for upper-division university course work. Course instructors are experienced law enforcement leaders.

It is recommended that students be released from their normal job responsibilities to ensure they have sufficient time to attend class and complete out-of-class assignments.

SPSC Graduates are eligible to receive six units of credit under the Northwestern University quarter system.

EXECUTIVE MANAGEMENT

Series of one to three-day seminars

The program is designed for upper-level public safety managers and leaders to explore emerging trends and confer with peers on topical issues and challenges.

With a mix of lecture and discussion, expert faculty lead conversations where participants are encouraged to share insights about challenges they face in jurisdictions around the country.

Topics include issues related to technology, community relations, service delivery, the media, employee relations, and more. The syllabus is reevaluated regularly and reflects input from students.

For chiefs, deputy chiefs, and other senior command-level officers as well as midlevel managers with multifaceted responsibilities.

Fact More than 550 police chiefs, sheriffs and directors of state policing agencies currently serving in the United States are graduates of Northwestern University Center for Public Safety.



Ahead of the Curve.

HIGHWAY
SAFETY

More than 30 courses cover a broad spectrum of highway safety disciplines: investigation, reconstruction, and engineering. Northwestern has been the leader in developing techniques and practices that define best practices in the field. Our program excels in providing students with the skills and knowledge to meet the most challenging current and emerging demands.

HIGHWAY SAFETY

CRASH INVESTIGATION 1

**Completely updated.*

On-site.

Online: Instructor-led or Self-paced.

Required for Crash Investigation 2.

Focused on investigating — rather than just reporting — crashes. Course is based the renowned book, *Traffic Crash Investigation* by J. Stannard Baker, an in-depth study of systematic traffic crash investigation.

Students learn proper skills and techniques for recognizing and recording roadway and vehicle crash evidence. The curriculum includes measuring and photographing a crash scene; how collected data are used to reconstruct crashes; the use of electronic devices to collect and record at-scene data; and creating sketches and after-crash diagrams.

CRASH INVESTIGATION 2

**Completely updated.*

On-site.

Online: Instructor-led or Self-paced.

Requires completion of Crash Investigation 1.

Course is based the renowned 2014 edition of *Traffic Crash Investigation* by J. Stannard Baker. Builds on Crash Investigation 1, with greater knowledge on how to properly collect and initiate interpretation of information collected at the crash scene.

Emphasizes vehicle behavior in crashes and vehicle damage analysis with a focus on advanced mapping and evidence location skills. Includes specific instruction on laser-based devices for measuring evidence and downloading that information into mapping software. Laser Technology, Inc. units are used in demonstrations.

Tip | A career in traffic crash reconstruction begins with a solid foundation. Complete Crash Investigation 1 and 2 then Vehicle Dynamics before signing up for Traffic Crash Reconstruction 1.

VEHICLE DYNAMICS

Requires completion of Crash Investigation 1 and Crash Investigation 2.

Prepares students for Crash Reconstruction courses.

The course presents the relationship between the laws of physics and mechanics and traffic crashes.

Students learn the classical mechanics equations of motion; the relationship of drag factor; and coefficient of friction and acceleration; the differences between force, momentum and energy; and how each applies to crash investigation and reconstruction. Students are also introduced to the methodology used to estimate vehicle speeds based on flips, vaults, and sideslip.

MATH AND PHYSICS WORKSHOP FOR CRASH RECONSTRUCTION

Provides a review of the mathematical and physics formulas and concepts that are used in Vehicle Dynamics and reconstruction-related courses.

Designed for those who may have studied algebra, trigonometry, and basic physics, but may have not used that knowledge for years.

TRAFFIC CRASH RECONSTRUCTION 1

73 ACTAR CEUs.

Participants must possess the skills learned from Crash Investigation 1, Crash Investigation 2, and Vehicle Dynamics or in equivalent crash investigation courses.

Provides the skills needed to determine how a crash likely occurred. Through lectures, course material, and the extensive analysis of real-world case studies, students learn to successfully reconstruct traffic crashes.

Coursework includes finding undetected facts in information collected at lower levels of investigation, deducing from these facts the circumstances that prove or disprove a theory of how a crash occurred, and describing the events leading to actual impact in as much detail as possible.

TRAFFIC CRASH RECONSTRUCTION 2

35 ACTAR CEUs.

This course provides training on how to reconstruct traffic crashes, including analysis of real-world case studies that are more complex cases than those studied in Traffic Crash Reconstruction 1.

Investigators further explore the techniques for reconstructing traffic crashes and acquires even more advanced skills through the analysis of real-world case studies including motorcycle, pedestrian, and truck collisions.

TRAFFIC CRASH RECONSTRUCTION 3

40 ACTAR CEUs.

Provides the advanced analytical and methodological concepts to better understand and explain real-world crash reconstructions.

In-depth instruction is focused on Monte Carlo analysis, advanced concepts in energy and advanced concepts in momentum.

TRAFFIC CRASH RECONSTRUCTION REFRESHER

23 ACTAR CEUs.

Requires completion of Traffic Crash Reconstruction 1 and 2 or equivalent crash reconstruction training.

The course reviews the basic physics techniques that are used to analyze traffic crashes as well as the newest technologies in the field.

Designed for practicing traffic crash reconstructionists who investigate traffic crashes, looking to renew their skills or for those who need an update on newer technologies such as electronic data recorders, LED or HID vehicle lights, ABS brakes, and stability control.

Advanced Topics in Crash Reconstruction

ADVANCED CRASH RECONSTRUCTION UTILIZING HUMAN FACTORS RESEARCH

40 ACTAR CEUs.

Requires completion of Traffic Crash Reconstruction 1 or equivalent.

Requires proficiency in Excel.

The course focuses on the human role in the crash sequence, building on curriculum from Traffic Crash Reconstruction 1 and 2.

Students learn how to determine if a human decision, action, inaction, or other behavior can contribute to determining the how and why a crash occurred.

Curriculum includes: reaction time research; causes for response delays and impairment; evaluating path intrusion crashes; nighttime response scenarios and documenting nighttime crashes; and, tutorials on IDRR and V*Star software.

*Upon completion, students receive: "Integrated Driver Response Research" license from CSS, LLC, which allows each attendee to use IDRR for one year; and, V*Star for three months.*

HEAVY VEHICLE CRASH RECONSTRUCTION

39 ACTAR CEUs. *Requires completion of Traffic Crash Reconstruction 1 and 2 or equivalent.*

Updated by national experts in HVCR and HVEDR technology.

Learn or expand on knowledge of heavy vehicle braking systems, specific complex component issues, speed analysis techniques, and event data recorder basics. This course examines the unique characteristics of heavy vehicles, including articulated, and how they perform in various crash scenarios. Emphasis on braking-braking-systems assessments, event data recorders, tachygraphs, and gear positions. Seven hours of field testing demonstrates various heavy vehicle behavior, braking, and acceleration issues. Students have an opportunity to analyze and apply the collected data. Case studies show how various analytic techniques apply to real-world crashes.

HIGHWAY SAFETY

HIGHWAY SAFETY

MOTORCYCLE CRASH RECONSTRUCTION

39 ACTAR CEUs.

This course examines the unique and specialized characteristics of motorcycles when involved in collisions or loss of control incidents. Topics covered include vehicle components, vehicle handling, unique dynamics, event data recorders, and the braking system.

Instructional methods include practical outdoor exercises using a motorcycle. Case studies show how various analytic techniques can be applied to real-world crashes.

PEDESTRIAN/BICYCLE CRASH RECONSTRUCTION

***New Offering.*

ACTAR CEUs pending.

Requires completion of Traffic Crash Reconstruction 1. Traffic Crash Reconstruction 2 is encouraged, along with some field reconstruction experience.

Vehicle-pedestrian/bicycle crashes often result in severe injuries to the pedestrian or rider. Students learn the mathematical equations to model such collisions and the appropriate formulas for varying crash scenarios. Pedestrian visibility is also addressed in an outdoor lab session.

Students will be able to understand the effects of illumination, luminance, and glare as well as discern the role visual acuity and contrast sensitivity play in the driving process. Field projects aid the investigator in understanding pedestrian gate and bicycle cadence.

Event Data Recorder Courses

CRASH DATA RETRIEVAL (CDR) TECHNICIAN

Two-day course.

16 ACTAR CEUs.

Students learn the basic functions of the Bosch CDR system, to be able to confidently image data from supported vehicles using the standard On-Board Diagnostic (OBD-II) Data Link Connector (DLC) port and, in most cases, directly from the airbag control module (ACM).

The course also includes offers small-group guided instruction in data imaging, module location, and identification with direct-to-module data imaging, practical booster and adaptor applications and “back powering” vehicle systems to enable DLC data imaging.

CRASH DATA RETRIEVAL (CDR) ANALYST

Requires completion of CDR Technician. Traffic Crash Reconstruction 1 is encouraged along with field reconstruction experience.

This course provides detailed instruction in the assessment of information from the Event Data Recorder and its application to such traditional reconstruction techniques as momentum applications and understanding of delta-v and PDOF.

CDR Data Analyst is both a natural extension of the CDR Technician training and an expansion of one's reconstruction skills.

There is no “downloading” activity in this class because it is assumed that students understand that process along with the underlying concepts of data storage in the EDR subcomponent, CDR software troubleshooting, and related error messages and their solution(s).

This course is the longest standing industry-standard training program for Bosch CDR Data Analyst Certification.

Fact | The Transportation Library of Northwestern University is one of the largest transportation information centers in the world — with more than 500,000 items.

VEHICLE SYSTEMS FOR THE CRASH DATA RETRIEVAL (CDR) TECHNICIAN

Eligible for ACTAR CEUs.

Requires completion of CDR Technician.

This course offers experienced CDR users with in-depth exposure to, and improved understanding of, the various vehicle system components, their locations and what may be monitored by various vehicle computers and systems.

By examining the function and various CDR-related capabilities of vehicle systems such as ABS, stability control, electronic throttle control, electric power steering and more, the CDR system user will better be able to address questions related to “if equipped” or “invalid data” indications in CDR reports.

PRESERVING AND ANALYZING INFORMATION FROM HEAVY VEHICLE EDRS

Requires completion of Heavy Vehicle Crash Reconstruction or its equivalent.

Requires Microsoft Windows proficiency.

This course is for those with experience in heavy vehicle and commercial vehicle crash reconstruction and emphasizes the importance of understanding the electronic control module (ECM) and the data it collects, as well as other sources of data and methods of data collection.

Students learn proper methodologies for safely and correctly obtaining data from various electronic control modules installed on heavy trucks, including engine control modules and ABS electronic control units.

Includes hands-on practice downloading (or “imaging”) the data. Students are introduced to research on data accuracy and interpretation via lecture, case study and practical demonstration.

Small Unmanned Aircraft Systems Courses

sUAS FAA KNOWLEDGE TEST PREPARATION

***New offering.*

For officers and civilians planning to fly sUAS on behalf of their departments. For all mission types, but with a particular focus on crash investigation. Provides a foundation in preparing for the FAA sUAS knowledge test. When supplemented with out-of-class reading and self-study, students will be equipped with the knowledge to operate safely within the US National Airspace System.

sUAS CRASH INVESTIGATION REMOTE PILOT

***New offering.*

This course prepares students who are new to flying a small UAS (unmanned aerial system, or drone) to use this technology to reliably capture the photographic and video evidence at a crash scene for subsequent photogrammetric evaluation.

Includes extensive hands-on experience and is suitable for those without sUAS pilot experience and those who have basic flight skills but have not used them for the capture of crash scene images for photogrammetry.

sUAS and photogrammetric modeling techniques allow the details of a crash scene to be recorded in a fraction of the time taken with traditional survey station techniques and can produce photorealistic three-dimensional models from which accurate measurements can be taken.

CRASH INVESTIGATION AND RECONSTRUCTION AERIAL PHOTOGRAMMETRIST

***New offering.*

This course prepares students to develop 3D models and orthomosaics from crash scene evidence captured using aerial and terrestrial photography. In this course students will work hands on with the Pix4DMapper photogrammetry modelling software.

HIGHWAY SAFETY

ADVANCED GEOMETRIC DESIGN WORKSHOP

3.4 CEUs.

Intended for experienced designers who have taken the Fundamentals of Geometric Design Workshop and are familiar with the basic concepts and principles of geometric design of highways.

This workshop includes lectures, discussions, and extensive hands-on design projects. It is designed to strengthen the expertise of geometric design engineers to specialized topics in the design of highways and interchanges and the reconstruction of existing highways.

CRASH RECONSTRUCTION FOR TRAFFIC ENGINEERS

3.4 CEUs.

Traffic engineers should have enough knowledge of crash investigation and reconstruction to assess the quality of data collection and analysis contained in police crash reports. In addition, it is often necessary for the traffic engineer to conduct an independent investigation to determine how the crash occurred and to assess the potential involvement of the roadway design and traffic operational factors in crash causation. This ability is an important ingredient in identifying and correcting hazardous roadway features. It is also a critical step in evaluating the potential liability of a highway agency.

FUNDAMENTALS OF GEOMETRIC DESIGN WORKSHOP

3.4 CEUs.

Geometric design, defined as the “design of the visible features of a road,” combines traffic operational efficiency and economy with the motorist’s comfort, convenience, and safety.

The workshop is for highway and traffic engineers, to advance understanding of the fundamental design principles and concepts of geometric design of highways and intersections. Includes geometric, functional, and aesthetic aspects of street and highway design with emphasis placed on efficient and effective design techniques.

HIGHWAY CAPACITY WORKSHOP

3.4 CEUs.

This workshop reflects current thinking, discussions, and techniques of capacity analysis as they have evolved in the development of the 2010 Highway Capacity Manual and the most relevant portions of the Manual are presented and discussed. Students apply lessons learned by utilizing McTrans’ Highway Capacity Software 2010.

TRAFFIC IMPACT ANALYSIS WORKSHOP

3.4 CEUs.

This workshop presents the methodology, techniques, and procedures used in the evaluation of proposed land developments. The relationship between land use and traffic service is emphasized to ensure coordinated planning, practical design and implementation of recommendations.

TRAFFIC SIGNAL WORKSHOP

3.4 CEUs.

This workshop provides students with a working knowledge of the latest theory and application of the functional capabilities of traffic signal controllers and systems. The goal is optimum efficiency and safety of traffic flow at intersections, on street systems, and in roadway networks.

TRAFFIC AND TRANSPORTATION ENGINEERING SEMINAR 1 AND 2

3.4 CEUs.

Primarily for graduate engineers with traffic or transportation responsibilities.

This workshop provides students with a working knowledge of the latest theory and application of the functional capabilities of traffic signal controllers and systems. The goal is optimum efficiency and safety of traffic flow at intersections, on street systems, and in roadway networks.

3-Day Workshops

HIGHWAY RAILROAD GRADE CROSSING WORKSHOP

1.9 CEUs.

This workshop provides students with an understanding of the interrelationships between drivers, pedestrians, vehicles and roadway segments in the vicinity of the railroad crossing, as well as the trains and the tracks at the crossing. Presents tools for diagnosing safety and operational problems at crossings. Alternative treatments are analyzed and evaluated.

IDENTIFICATION AND TREATMENT OF HIGH HAZARD LOCATIONS

1.9 CEUs.

This workshop is a synthesis of the approaches, practices, and programs of many state, county, and city agencies. The focus is on practical solutions to problems in the identification of high hazard locations; development and selection of countermeasures; prioritization of candidate projects; and evaluation of implemented projects.

Case studies and problem sessions illustrate practical applications of the course content. Participants work both individually and in teams using the principles and techniques presented. Students receive a reference manual, which includes comprehensive coverage of all presented topics and a coordinated series of work problems and projects.

INTERSECTION DESIGN AND CHANNELIZATION WORKSHOP

1.9 CEUs.

This course emphasizes the principles of intersection and channelization design, identification and treatment of intersection deficiencies and redesign of existing intersections. The workshop includes lecture sessions and discussions of intersection design case studies. Design projects are used to give participants the opportunity to apply the principles and design techniques discussed in the course.

Intersection design must respond to the unique needs and constraints of each particular location and does not lend itself to standardized “cook-book” solutions. The design must respond to such intersection characteristics as traffic volumes, type of design vehicles, design speed, functional characteristics, type of intersection control and the topographic constraints of the location.

ROUNDAABOUT DESIGN WORKSHOP

1.9 CEUs.

This workshop emphasizes criteria for selection of roundabouts as an intersection form, geometric design practices and procedures and design of traffic control devices.

There is increasing interest in the modern roundabout as an intersection design form. Entry and circulating speeds are controlled by the geometric features of the roundabout; including the size of the central island and outer diameter of the circulating roadway; entry and exit radii; and the length and shape of splitter islands. But these safety and efficiency advantages may not be realized if the roundabout is not properly designed or if traffic control devices are not properly applied.

TRAFFIC STUDIES WORKSHOP

1.9 CEUs.

This workshop is designed to guide and assist traffic and transportation engineers in appropriate methods and procedures for performing common traffic engineering data collections and studies. The curriculum covers types of data collection equipment, personnel and training requirements, and techniques of data reduction and interpretation.

Solutions to traffic problems can only be developed after the magnitude, location, and extent of the problems are well understood. Timely, complete, and accurate data from the transportation system form the basis of many traffic engineering decisions. It is critical that such data be collected efficiently and in a manner that avoids potential biases in the study results.

**HIGHWAY
SAFETY**

SEMINAR FOR TRAFFIC ENGINEERING TECHNICAL ASSISTANTS

*Two-week seminar.
7.1 CEUs.*

Well-trained technical assistants provide valuable support in traffic and highway engineering agencies of cities, counties and states.

This seminar provides training for technicians who work under the direction of traffic engineers and is designed to improve skills in conducting traffic surveys, field investigation, data collection and analysis, and application of traffic control devices.

With lectures and demonstrations as well as supervised work sessions and field studies, participants learn to perform many basic traffic survey, analysis, and application techniques with a minimum of engineering assistance and directions.

STANDARDIZED FIELD SOBRIETY TESTING INSTRUCTOR COURSE

This train-the-trainer course certifies participants to present the U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA) DUI Detection and Standardized Field Sobriety Testing course.

The course focuses on improving detection skills, arrest requirements and procedures, evidence collection and recording and articulation of observed behaviors to obtain convictions.

TRAFFIC RADAR/LIDAR INSTRUCTOR TRAINING

*National Highway Traffic Safety Administration (NHTSA) approved course.
Commuters are encouraged to bring the equipment used in their department for greater familiarity and practice.*

This course offers the latest information regarding training instructors to use LASER technology and provides the background and materials needed to teach the RADAR and LIDAR operator course at the local level.

Students learn how to develop and implement the operator course, become proficient in instructional methodologies, become familiar with the technical aspects and legal issues of RADAR and LIDAR operation and much more.

Practical exercises using the latest equipment are utilized.

All instructional material is provided in PowerPoint on CD, including the course administrator manual, teaching outlines, the student operator manual, and illustrations.

Fact | NUCPS helped to successfully lobby for the Highway Safety Act of 1970 — which created the National Highway Traffic Safety Administration.



Vital Intelligence.

CRIME SCENE
AND FORENSIC
SCIENCE

Our multidisciplinary program serves professionals at every stage of their career: students requiring basic courses as well as for those seeking advanced education or specialized instruction. Each course emphasizes disciplined processes for maintaining quality and improving efficiency; developing proven skills for real-world applications; and making decisions that advance investigations.

CRIME SCENE AND FORENSIC SCIENCE

BLOODSTAIN EVIDENCE 1

*40-hour course.
Laboratory study.*

Designed for investigators, crime scene technicians, detectives, criminal laboratory personnel, and others responsible for identifying and documenting bloodstains during crime scene investigations.

Students learn to preserve bloodstains and patterns through notations, measurements, photography, and sketches. In addition, they learn to develop well-preserved scenes, evaluate circumstances and statements, reconstruct the chain of events, collect pertinent stains for analysis, and prepare cases for trial.

Meets membership requirements set by the International Association of Bloodstain Pattern Analysts and partial requirements for certification by the International Association for Identification.

BLOODSTAIN EVIDENCE 2

*40-hour course.
Laboratory study.*

Provides an in-depth review of bloodstain pattern identification and analysis. Students learn to make sophisticated interpretations of bloodstain evidence encountered at the crime scene, and gain proficiency in documentation and reconstruction techniques to correlate stains and patterns with body trauma.

Students participate in hands-on projects in order to allow for application of skills learned and first-hand observation of results.

Meets membership requirements set by the International Association of Bloodstain Pattern Analysts and partial requirements for certification by the International Association for Identification.

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

*Hands-on, 40-hour course.
Required for Crime Scene Technology 2.*

Through lab projects, students receive a sound foundation in latest techniques in evidence development and enhancement, applying sensitivity, and specificity in applications.

Course topics include: Approaching, searching and assessing the crime scene; recording notes, sketches, and diagrams; evidence development, identification and collection; field and documentation photography; use of the forensic laboratory; and the significance of bloodstain evidence in criminal investigations.

Meets certification requirements for the International Association for Identification.

CRIME SCENE TECHNOLOGY 2: A CRIME SCENE PRACTICUM

*40-hour course.
Completing Crime Scene Technology 1 is strongly recommended.*

This accelerated course offers a minimum of lecture and a maximum of team lab activity, including field exercises of simulated crime scenes.

Consists of hands-on application in the development and enhancement of physical evidence. Students learn techniques and methods for using equipment and chemicals; forensic light source application; effective use of photographic evidence; bloodstain and pattern documentation; construction of a three-dimensional diagram; and courtroom presentation and testimony.

Meets the requirements for certification through the International Association for Identification.

Fact | Students participating in the Crime Scene Technology 3 course learn to develop evidence accurately without relying on a crime lab.

CRIME SCENE TECHNOLOGY 3: ADVANCED TECHNIQUES

40-hour course.

Requires completion of Crime Scene Technology 2 and considerable experience in the crime scene process.

This course covers advanced chemical and light-source application, enhancement techniques, and methodologies for the documentation and preservation of trace evidence. Photographic documentation of processed evidence is emphasized.

The hands-on approach provides opportunities to experiment and actively learn from group participation. Group projects include simulated case evidence, lab process, photographic documentation, and preservation of evidence processed.

Meets the requirements for certification through the International Association for Identification.

DIGITAL FORENSIC PHOTOGRAPHY

Students learn how to apply digital photography for forensics, including camera operation; file types and archiving; lighting techniques; controlling and printing digital images; and testimony.

Through numerous projects, including individual and team exercises, students demonstrate forensic and photographic fundamentals and develop an excellent working knowledge of the digital evidence process.

The course is applicable towards certifications in several disciplines offered by the International Association for Identification.

SHOOTING RECONSTRUCTION 1

Designed for investigators, examiners and prosecutors with little or no experience in the investigation of shooting incidents. Provides a fundamental understanding of the principles necessary to conduct a proper investigation/reconstruction of a firearms-related incident.

Through lectures and case studies, students review basic shooting incident investigation and reconstruction topics as well as elements that are unique and specific to police-involved shooting incidents.

Students receive a comprehensive training manual.

SHOOTING RECONSTRUCTION 2

This course helps students develop further shooting reconstruction skills. Covers such topics as interpretation of gunshot residue, wound ballistics, external ballistics, and reconstructing an unattended death.

Through extensive use of hands-on exercises, students learn to efficiently and accurately reconstruct most shooting incidents.

CRIME SCENE AND FORENSIC SCIENCE

Tip Officers who complete 200 hours (5 classes) of forensic and crime scene training at Northwestern are eligible for the NUCPS Award of Criminal and Investigation Techniques.



POLICE
MOTORCYCLE

Out in Front.

For instructors, experienced riders and new officers, this is the one program that combines in-the-saddle instruction on a furnished Police FLHP Road King® plus a focused classroom curriculum — so you get the how and why of every technique and maneuver. With courses offered throughout the year — and at locations around the country — you can always find a course that is close to home.

POLICE MOTORCYCLE OPERATOR TRAINING

Two-week intensive course.

Provided Harley-Davidson ABS equipped FLHP Road King®.

Motorcycling experience and completed basic skills test recommended.

Hone skills and enhance safety — for new or current police motorcycle officer or fire department medical response personnel.

Riding instruction supplemented with classroom instruction and demonstrations of tactical techniques — with certification based on course exercises and a multiple choice written test.

Practical exercises that stress low-speed maneuverability, evasion techniques and high-speed braking skills. Students must successfully complete the testing process to complete this course.

POLICE MOTORCYCLE INSTRUCTOR TRAINING

Three-week course.

Prepare to teach the 80-hour NUCPS Police Motorcycle Operator Training course. The first week of Police Motorcycle Instructor Training familiarizes the student with course set up and instruction of the basic practical exercises, reviews adult education applications and provides opportunities for critique of instructional techniques.

The second and third weeks of the instructor course overlap with Police Motorcycle Operator Training in order to give instructor candidates hands-on experience teaching the exercises and working with actual students.

Participation in weeks two and three of this program are contingent upon satisfactory completion of a skills test to be administered at the end of week one. The skills test includes course exercises and questions in a multiple choice written format. Students must successfully complete the testing process in week one before continuing into weeks two and three. Absence from training may result in termination from the class.

POLICE MOTORCYCLE INSTRUCTOR RECERTIFICATION

Four-hour course.

An update for instructors who completed the instructor course more than five years ago or who want to upgrade their skills to reflect the latest teaching techniques.

Course covers ABS braking, street riding techniques, and law enforcement tactical techniques.

Upon successful completion, students receive a new instructor certificate plus the most recent edition of the NUCPS Motorcycle Instructor Manual.

Note: Instructors must complete an instructor retraining course five years from the date of graduation from Police Motorcycle Instructor Training in order to teach the 80-hour NUCPS Police Motorcycle Operator Training course.

POLICE MOTORCYCLE

Tip | Keeping your eyes off the ground is key to effective low-speed maneuvers. “As soon as you look down, that’s where the motorcycle is going,” warns NUCPS trainer Joe Langenbacker.



COMMUNITY-
POLICE
PARTNERSHIPS

On Common Ground.

Created by law enforcement leaders and preeminent researchers to provide practical insights and advance actionable strategies, the Preventing Community Crisis curriculum is designed to develop effective police-community relationships that can meet critical issues. Topics covered in 2017 include procedural justice, implicit bias, and community-based problem-solving.

Tip Transform your agency's relationship with the community by applying the NUCPS Police-Community Partnership Checklist for evaluation and planning.

AGENTS OF CHANGE: EFFECTIVE STRATEGIES FOR POLICE-COMMUNITY PARTNERSHIPS

A PREVENTING COMMUNITY CRISIS COURSE

A practical two-day course for law enforcement on procedural justice, implicit bias, and community-based problem-solving — all crucial topics in today’s policing environment.

Developed by experienced law enforcement leaders and preeminent researchers to help agency supervisors focus on performance-based, proactive efforts that positively impact every level of the organization and community. Our new course emphasizes implementation of measurable, purpose-driven strategy to improve police-community relations and prevent community crisis.

Focusing on developing a clearer understanding of effective police-community relationships, students will be engaged in discussions about — and receive practical recommendations for addressing — these essential issues.

PREVENTING COMMUNITY CRISIS WORKSHOP: IMPLICIT BIAS, PROCEDURAL JUSTICE AND POLICE-COMMUNITY PARTNERSHIPS

A special two-day workshop on key current topics in police-community relationships.

Gain new proactive strategies for assessing your community’s current situation and developing crisis-proof community partnerships. Increase your understanding of the six strategic pillars for improving police organizations outlined by the President’s Task Force on 21st Century Policing. Learn to recognize implicit bias and minimize its effects — and understand the importance of establishing or updating policies that nourish an environment of procedural justice. Learn to use our proprietary Police-Community Partnership Checklist and apply it when planning and engaging with community partners and developing relationships with others.

Designed with police chiefs and executives, sheriffs, mayors, city managers and senior staff in mind — and welcoming representatives from community organizations — this innovative new workshop is led by experienced law enforcement practitioners and leading Northwestern researchers.

COMMUNITY-POLICE PARTNERSHIPS

Reactions from Past Participants

“The experience was eye-opening.”

“Very helpful in providing tools to bring back to my department.”

“I would highly recommend that others attend. I really appreciated the distinguished speakers.”

“A must attend. The workshop provided the insights we need to police the community and to meet the expectations of our society.”

Schedule

Management and Leadership

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
Executive Management Program	Evanston, IL - NU Center for Public Safety	Summer 2017	7/31 – 8/18	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$2,200
School of Police Staff and Command ONLINE	Online - Instructor Led	Summer 2017	6/19 – 11/19			\$4,000
	Online - Instructor Led	Fall 2017	9/11 – 2/25			\$4,000
	Online - Instructor Led	Fall 2017	10/16 – 4/1			\$4,000
School of Police Staff and Command	Peoria, IL - Illinois Central College North Campus	Summer 2017	7/17 – 11/10	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,000
	Nashville, TN - Tennessee Highway Patrol Academy	Summer 2017	7/24 – 9/29	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$3,900
	Brighton, CO - Adams County Sheriff	Summer 2017	8/14 – 12/15	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$3,900
	Albuquerque, NM - Police Training Academy	Summer 2017	8/21 – 10/27	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,200
	Burien, WA - Criminal Justice Training Center	Fall 2017	9/11 – 11/17	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,550
	Eagan, MN - Rasmussen College-Eagen	Fall 2017	9/18 – 12/1	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,100
	Evanston, IL - NU Center for Public Safety	Fall 2017	9/25 – 12/8	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$3,600
	Cape Coral, FL - Police Department	Fall 2017	9/25 – 12/15	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,100
Supervision of Police Personnel ONLINE	Doylestown, PA - Police Department	Fall 2017	10/09 – 2/16	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$4,100
	Online - Instructor Led	Fall 2017	9/11 – 11/3			\$1,000
Supervision of Police Personnel	Evanston, IL - NU Center for Public Safety	Fall 2017	9/11 – 9/22	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,000
	Evanston, IL - NU Center for Public Safety	Spring 2018	2/26 – 3/9	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,000

Highway Safety

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
CDR Data Analyst	Evanston, IL - NU Center for Public Safety	Fall 2017	10/9 – 10/13	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$750
CDR Technician (16 ACTAR CEUs)	Evanston, IL - NU Center for Public Safety	Fall 2017	10/5 – 10/6	8:30 a.m. – 4:30 p.m.	Th, F	\$300
Crash Investigation 1	Evanston, IL - NU Center for Public Safety	Fall 2017	9/11 – 9/22	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,200
Crash Investigation 2	Evanston, IL - NU Center for Public Safety	Fall 2017	9/25 – 10/06	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,200
NEW Crash Investigation and Reconstruction Aerial Photogrammetrist	Evanston, IL - NU Center for Public Safety	Summer 2017	6/7 – 6/9	8:30 a.m. – 4:30 p.m.	W, Th, F	\$700
NEW Crash Investigation and Reconstruction Aerial Photogrammetrist	Scotch Plains, NJ - John H. Stamler Police Academy	Summer 2017	8/23 – 8/25	8:30 a.m. – 4:30 p.m.	W, Th, F	\$850

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Highway Safety (CONTINUED)

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
NEW Crash Investigation and Reconstruction Aerial Photogrammetrist	Evanston, IL - NU Center for Public Safety	Fall 2017	10/11 – 10/13	8:30 a.m. – 4:30 p.m.	W, Th, F	\$700
Identification and Treatment of High Hazard Locations	Evanston, IL - NU Center for Public Safety	Summer 2017	7/24 – 7/26	8:30 a.m. – 4:30 p.m.	M, Tu, W	\$825
Motorcycle Crash Reconstruction (39 ACTAR CEUs)	Evanston, IL - NU Center for Public Safety	Fall 2017	9/25 – 9/29	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,000
NEW Pedestrian/Bicycle Crash Reconstruction (ACTAR CEUs pending)	Evanston, IL - NU Center for Public Safety	Fall 2017	11/13 – 11/17	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$925
Roundabout Design Workshop	Evanston, IL - NU Center for Public Safety	Summer 2017	8/21 – 8/23	8:30 a.m. – 4:30 p.m.	M, Tu, W	\$825
Seminar for Traffic Engineering Technical Assistants (7.1 CEUs and 71 PDHs awarded)	Evanston, IL - NU Center for Public Safety	Fall 2017	11/27 – 12/8	8:30 a.m. – 5:00 p.m.	M, Tu, W, Th, F	\$1,650
Standardized Field Sobriety Testing Instructor Course	Evanston, IL - NU Center for Public Safety	Summer 2017	6/12 – 6/16	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,050
NEW sUAS Crash Investigation Remote Pilot	Evanston, IL - NU Center for Public Safety	Summer 2017	6/5 – 6/6	8:30 a.m. – 4:30 p.m.	M, Tu	\$1,800
NEW sUAS Crash Investigation Remote Pilot	Scotch Plains, NJ - John H. Stamler Police Academy	Summer 2017	8/21 – 8/22	8:30 a.m. – 4:30 p.m.	M, Tu	\$2,100
NEW sUAS Crash Investigation Remote Pilot	Evanston, IL - NU Center for Public Safety	Fall 2017	10/9 – 10/10	8:30 a.m. – 4:30 p.m.	M, Tu	\$1,800
NEW sUAS FAA Knowledge Test Preparation	Evanston, IL - NU Center for Public Safety	Fall 2017	9/26 – 9/27	8:30 a.m. – 4:30 p.m.	M, Tu	\$550
Traffic Crash Reconstruction 1 (73 ACTAR CEUs)	Evanston, IL - NU Center for Public Safety	Fall 2017	10/16 – 10/27	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,250
Traffic Crash Reconstruction 2 (35 ACTAR CEUs)	Evanston, IL - NU Center for Public Safety	Fall 2017	10/30 – 11/03	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$950
Traffic Crash Reconstruction Refresher (23 ACTAR CEUs)	Evanston, IL - NU Center for Public Safety	Spring 2017	5/31 – 6/2	8:30 a.m. – 4:30 p.m.	W, Th, F	\$610
Traffic Impact Analysis Workshop	Evanston, IL - NU Center for Public Safety	Summer 2017	6/5 – 6/9	8:30 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,140
Traffic RADAR/LIDAR	Evanston, IL - NU Center for Public Safety	Summer 2017	6/5 – 6/9	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,050
Traffic Studies Workshop	Evanston, IL - NU Center for Public Safety	Fall 2017	11/13 – 11/15	8:30 a.m. – 5 p.m.	M, Tu, W	\$1,150
Vehicle Dynamics	Evanston, IL - NU Center for Public Safety	Fall 2017	10/9 – 10/13	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$900

Crime Scene and Forensic Science

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
Crime Scene Technology 1: A Multidisciplinary Approach to Crime Scene Process	Evanston, IL - NU Center for Public Safety	Fall 2017	10/16 – 10/20	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,200
Crime Scene Technology 2: A Crime Scene Practicum	Evanston, IL - NU Center for Public Safety	Fall 2017	10/23 – 10/27	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,200
Crime Scene Technology 3: Advanced Techniques	Evanston, IL - NU Center for Public Safety	Fall 2017	11/6 – 11/10	8:30 a.m. – 4:30 p.m.	M, Tu, W, Th, F	\$1,200

Police Motorcycle

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
Police Motorcycle Instructor Recertification	Langhorne, PA - Oxford Valley Mall	Summer 2017	6/15	8 a.m. – 3 p.m.	Th	\$150
	Detroit, MI - Wayne County Airport	Summer 2017	7/20	8 a.m. – 3 p.m.	Th	\$150
	Weymouth, MA - Brookfield Village	Summer 2017	8/17	8 a.m. – 3 p.m.	Th	\$150
	Cookeville, TN- Putnam County Sports Complex	Fall 2017	10/05	8 a.m. – 3 p.m.	Th	\$150
	Edmond, OK - Wayne County Airport	Fall 2017	11/02	8 a.m. – 3 p.m.	Th	\$150
	Conroe, TX - Montgomery County Sheriff's Office	Fall 2017	12/07	8 a.m. – 3 p.m.	Th	\$150
Police Motorcycle Instructor Training	Langhorne, PA - Oxford Valley Mall	Summer 2017	6/5 – 6/23	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
	Detroit, MI - Wayne County Airport	Summer 2017	7/10 – 7/28	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
	Weymouth, MA - Brookfield Village	Summer 2017	8/7 – 8/25	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
	Cookeville, TN- Putnam County Sports Complex	Fall 2017	9/25 – 10/13	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
	Edmond, OK - Wayne County Airport	Fall 2017	10/23 – 11/10	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
	Conroe, TX - Montgomery County Sheriff's Office	Fall 2017	11/27 – 12/15	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,795
Police Motorcycle Operator Training	Langhorne, PA - Oxford Valley Mall	Summer 2017	6/12 – 6/23	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495
	Detroit, MI - Wayne County Aip	Summer 2017	7/17 – 7/28	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495
	Weymouth, MA - Brookfield Village	Summer 2017	8/14 – 8/25	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495
	Cookeville, TN- Putnam County Sports Complex	Fall 2017	10/2 – 10/13	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495
	Edmond, OK - Wayne County Airport	Fall 2017	10/30 – 11/10	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495
	Conroe, TX - Montgomery County Sheriff's Office	Fall 2017	12/4 – 12/15	8 a.m. – 5 p.m.	M, Tu, W, Th, F	\$1,495

Police-Community Partnerships

COURSE	LOCATION	SESSION	DATES	TIMES	DAYS	FEE
Preventing Community Crisis Workshop: Implicit Bias, Procedural Justice and Police-Community Partnerships	Brookhaven, GA - Location TBD	Fall 2017	9/20 – 9/21	8:00 a.m. – 5 p.m.	W, Th	TBD
Agents of Change: Effective Strategies for Police-Community Partnerships	New Lenox, IL - Police Department	Summer 2017	8/24 – 8/25	8:30 a.m. – 4:30 p.m.	Th, F	\$325
Agents of Change: Effective Strategies for Police-Community Partnerships	Reading, PA - Muhlenberg Township Municipal Building	Fall 2017	9/14 – 8/15	8:30 a.m. – 4:30 p.m.	Th, F	\$375

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