



TRAFFIC CRASH RECONSTRUCTION

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Master the basic skills for analyzing and interpreting a traffic crash.

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In Traffic Crash Reconstruction 1, students synthesize lessons from Crash Investigation 1 and 2 and Vehicle Dynamics to learn to determine how a crash occurred. Based on the latest edition of our seminal textbook, *Traffic Crash Reconstruction*, this advanced course focuses on analyzing and interpreting collected crash information in order to describe the crash and the events leading to impact in as much detail as possible.

Students apply the lessons from daily lecture material to real-world case study situations — a format that provides students with the training necessary to reconstruct traffic crashes.

After successfully completing this course, students will have the ability to reconstruct crash situations using momentum and mechanics.

REGISTER NOW!

ON-GROUND OR REMOTE

**TO REGISTER OR LEARN MORE,
SCAN THE QR CODE
OR VISIT**

nucps.northwestern.edu/crash



CURRICULUM TOPICS

- Engineering mechanics
- Equations of motion calculations
- Vehicle behavior in collisions
- Principal direction of force analysis
- Introduction to human factors
- Time-distance analysis
- Conservation of momentum
- Oblique & collinear analysis
- Post-collision drag factors
- Newton's Laws of Motion
- Identifying & analyzing road marks
- Driver strategy & tactics

PREREQUISITES:

Crash Investigation 1 & 2; Math & Physics Review for Crash Reconstruction; Vehicle Dynamics