Vehicle Dynamics

Learn the essential physics and math to advance to Traffic Crash Reconstruction.

COURSE CONTENT:

- **Newton's laws of motion**
- **Coefficient of friction and drag factor**
- **Introduction to basic motion equations: velocity, time, acceleration, and distance**
- **Momentum - collinear (inline)**
- **Time-Distance Analysis**
- **Physics & mathematics overviews**

Vehicle Dynamics introduces students to mathematical formulas and physics as they relate to traffic crash investigation and reconstruction. The course curriculum focuses on mechanics, the study of motion and forces, and the effects of such forces during a collision event.

The third course in our essential five-class sequential series, Vehicle Dynamics is an introduction to basic mathematical procedures and the basic laws of physics necessary for those who wish to attend Traffic Crash Reconstruction 1 and Traffic Crash Reconstruction 2.

Our course instructors present Newton's Laws of Motion and proper application of physics principles to equations of motion in order to to solve for velocity, time, acceleration, and distances of travel. Following the presentation of these concepts, instruction continues to the discussion of vehicle braking, drag factors, and the coefficients of friction and time-distance analysis.

Register now

ON GROUND OR ONLINE!

REGISTRATION

Find a course section & Register at:
nucps.northwestern.edu/crash