



Math & Physics Review *for* Crash Reconstruction

Learn or refresh the required math & physics skills for advancing into reconstruction courses.

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Learn or review the basic and intermediate mathematics and physics and build your confidence and competence! This core course is designed for students who want to advance to Vehicle Dynamics, Traffic Crash Reconstruction 1 and 2, and beyond but need to learn or refresh the math and physics that advanced course curricula presume they know.

In four days, our course instructors offer students the solid math and physics foundation they need in order to concentrate on the applications of mathematic- and physics-based reconstruction techniques in advanced courses instead of being hampered by a lack of basic skills.

In an exclusively online format, lessons begin with basic math and physics and progress through intermediate concepts. Our course instructors present such basics as perimeter and area, order of operations, angle measurements, and unit conversions before advancing to more complex topics, such as linear and quadratic functions, vectors, and Newton's Laws of Motion. Students learn the proper application of physics to equations in order to solve for velocity, acceleration, and distances of travel.

Students' confidence and abilities are solidified with practice problems.

CURRICULUM TOPICS

- Order of operations
- Unit conversions
- Polynomial operations
- Solving algebraic equations
- Cartesian plane
- Slope & intercepts
- Linear & quadratic functions
- Euclidean geometry
- Congruency & similarity
- Angle measurements
- Trigonometric definitions
- Pythagorean Theorem
- Vectors & their basic operations
- Basic & derived physics quantities
- Distance-velocity-acceleration relationships
- Newton's Laws of Motion

REGISTER NOW!

ON-GROUND OR ONLINE

TO REGISTER OR LEARN MORE,

SCAN THE QR CODE

OR VISIT

nucps.northwestern.edu/crash

