

# NUCPS Traffic Crash Investigation & Safety Engineering Courses: Class Supply List

The following is a supply list for each NUCPS Traffic Crash Investigation & Safety Engineering Course in **alphabetical order**.

**Please note:** With the exception of Traffic Crash Reconstruction 2, textbooks and other course reading material currently are included with the cost of tuition and distributed to on-ground classes during the first day of class and shipped to students enrolled in online classes to arrive prior to the first day of class (dependent upon receipt of tuition or purchase order).

## **ALL COURSES:**

**Internet capability is required to access Canvas, Northwestern's secure cloud-based learning portal.**

### **Advanced Collision Reconstruction with CDR Application**

- Laptop with USB port and Wi-Fi capability
- Stand-alone simple calculator with square root key
- Pencils and pens
- Notebook

### **Crash Data Retrieval Analysis & Applications**

- Laptop with Wi-Fi capability, a USB port, and Adobe Reader installed
- Stand-alone simple calculator with square root key
- Pencils and pens
- Notebook

### **Crash Data Retrieval Operators**

- Laptop with Wi-Fi capability, a USB port, and Adobe Reader installed
- Stand-alone simple calculator with square root key
- Pencils and pens
- Notebook
- CDR Took Kit (if you have one).

**NOTE:** CDR System ownership is not required. Students with access to a CDR system should bring it to class for the hands-on, practical exercises. Those without a system work with students who have a CDR.

### **Crash Investigation 1 On-Ground**

- Laptop with Wi-Fi capability, a USB port, and Adobe Reader installed. (continued on page 2)

- Stand-alone simple calculator with square root key (Students may use calculators or calculator phone apps in class; however, possession/use of cell phones or other electronic communication devices during closed-book quizzes and exams is prohibited).
- Mechanical Pencils
- Notebook
- Staedtler Geometry Compass

### **Crash Investigation 1 Online**

- Laptop with a USB port and Adobe Reader installed. High-speed internet is recommended.
- Stand-alone simple calculator with square root key (Students may use calculators or calculator phone apps in class; however, possession/use of cell phones or other electronic communication devices during closed-book quizzes and exams is prohibited).
- Mechanical Pencils
- Notebook
- Staedtler Geometry Compass
- Other course materials and log-in information will be provided prior to the first day of class dependent upon receipt of full payment or purchase order.

### **Crash Investigation 2 On-Ground**

- Laptop with Wi-Fi capability, a USB port, and Adobe Reader installed.
- Stand-alone simple calculator with square root key (Students may use calculators or calculator phone apps in class; however, possession/use of cell phones or other electronic communication devices during closed-book quizzes and exams is prohibited.)
- Mechanical Pencils
- Notebook
- Staedtler Geometry Compass
- Required text: *Traffic Crash Investigation, 11<sup>th</sup> Edition, 2014* (Fricke, editor, ISBN 978163315-1758). Crash 1 students receive a copy of this text in their coursework. If you are a Crash 2 student who does not have this text, one may be acquired through the Northwestern University Bookstore. To purchase through the bookstore, visit: <https://northwestern.bncollege.com>. Using the search bar in the upper right, enter into the bar: Traffic Crash Investigation. Your required text will appear in the list of search results.

### **Crash Investigation 2 Online**

- Laptop with a USB port and Adobe Reader installed. High-speed internet is recommended.
- Stand-alone simple calculator with square root key (Students may use calculators or calculator phone apps in class; however, possession/use of cell phones or other electronic communication devices during closed-book quizzes and exams is prohibited).
- Mechanical Pencils
- Notebook
- Staedtler Geometry Compass
- Required text: *Traffic Crash Investigation, 11<sup>th</sup> Edition, 2014* (Fricke, editor, ISBN 978163315-1758). Crash 1 students receive a copy of this text in their coursework. If you are a Crash 2 student who does not have this text, one may be acquired through the Northwestern University Bookstore. To purchase

through the bookstore, visit: <https://northwestern.bncollege.com>. Using the search bar in the upper right, enter into the bar: Traffic Crash Investigation. Your required text will appear in the list of search results.

- Other course materials and log-in information will be provided prior to the first day of class dependent upon receipt of full payment or purchase order.

### **Injury Biomechanics – Mechanisms and Analyses with Application to Traffic Crash Reconstruction**

- Laptop, Chromebook / netbook, or tablet with Adobe Reader installed.
- Stand-alone simple calculator with square root key
- Pencils and pens
- Notebook

### **Traffic Crash Reconstruction 1 On-Ground**

- Laptop with a USB port, Wi-Fi capability, and Adobe Reader installed.
- Stand-alone scientific calculator (phone calculator apps are not permitted)
- Small pair of scissors
- Colored pencils (5 or 6)
- Mechanical pencils and eraser
- Academic circular protractors (360 degrees)
- Notebook
- Pad of tracing paper
- Adhesive tape

### **Traffic Crash Reconstruction 1 Remote Learning**

- Laptop with a USB port, built-in or add-on Webcam, and Adobe Reader installed. High-speed internet recommended.
- Stand-alone scientific calculator (phone calculator apps are not permitted)
- Small pair of scissors
- Colored pencils (5 or 6)
- Mechanical pencils and eraser
- Academic circular protractors (360 degrees)
- Notebook
- Pad of tracing paper
- Adhesive tape

### **Traffic Crash Reconstruction 2 On-Ground**

- Laptop with a USB port, Wi-Fi capability, and Adobe Reader installed.
- Stand-alone scientific calculator (cellular phone calculator apps are not permitted)
- Small pair of scissors
- Colored pencils (5 or 6)
- Mechanical pencils and eraser

- Academic circular protractors (360 degrees) (continued on page 4)
- Notebook
- Pad of tracing paper
- Adhesive tape
- *Traffic Crash Reconstruction (2nd Edition) (L. Fricke, ISBN 9780912642031)* – All Traffic Crash Reconstruction 1 students receive a copy of this textbook to use in TCR 1 & 2. If you do not have this text, one may be acquired through the Northwestern University Bookstore. To purchase through the bookstore, visit: <https://northwestern.bncollege.com>. Using the search bar in the upper right, enter: Traffic Crash Reconstruction. Your required text will appear in the search results.

### **Traffic Crash Reconstruction 2 Remote Learning**

- Laptop with a USB port, built-in or add-on Webcam, and Adobe Reader installed. High-speed internet recommended.
- Stand-alone scientific calculator (cellular phone calculator apps are not permitted)
- Small pair of scissors
- Colored pencils (5 or 6)
- Mechanical pencils and eraser
- Academic circular protractors (360 degrees)
- Notebook
- Pad of tracing paper
- Adhesive tape
- *Traffic Crash Reconstruction (2nd Edition) (L. Fricke, ISBN 9780912642031)* – All Traffic Crash Reconstruction 1 students receive a copy of this textbook to use in TCR 1 & 2. If necessary, a copy may be purchased online through the Northwestern University Bookstore. To purchase through the bookstore, visit: <https://northwestern.bncollege.com>. Using the search bar in the upper right, enter: Traffic Crash Reconstruction. Your required text will be included in the list of search results.

### **Vehicle Dynamics On-Ground**

- Laptop with Wi-Fi capability, USB port, and Adobe Reader installed.
- Stand-alone scientific calculator
- Mechanical Pencils
- Notebook

### **Vehicle Dynamics Remote Learning**

- Laptop with internet capability, USB port, and Adobe Reader installed. High-speed internet recommended.
- Stand-alone scientific calculator
- Mechanical Pencils
- Notebook
- Log-in information will be provided prior to the first day of class dependent upon receipt of full payment or purchase order.