WELCOME TO
Forensic Science
at Penn State
www.forensics.psu.edu

Please contact us anytime with your questions and/or requests for a tour of the program facilities
The Mission

- **Provide** a scientifically rigorous curriculum with practical hands-on CSI and crime laboratory training
- **Prepare** future leaders of the forensic science community for the challenges ahead
- **Offer** an opportunity for students to minor (or double major) in other areas of science (e.g., biology, biochemistry, chemistry, microbiology) and non-science (e.g., CLJ, psychology)
Bachelor of Science in Forensic Science

You can begin at any PSU campus location, however would need to transfer after your first year from the following campuses:

<table>
<thead>
<tr>
<th>Allegheny</th>
<th>Fayette</th>
<th>Shenango</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beaver</td>
<td>Lehigh Valley</td>
<td>Wilkes Barre</td>
</tr>
<tr>
<td>Brandywine</td>
<td>Mont Alto</td>
<td>W. Scranton</td>
</tr>
<tr>
<td>DuBois</td>
<td>New Kensington</td>
<td></td>
</tr>
</tbody>
</table>
PSU Philosophy
Forensic Science Education

Build The Foundation
- Chemistry
- Biology
- Math
- Statistics

Provide Hands-On Training
- Scene Investigation
- Forensic Biology
- Forensic Chemistry
- Criminalistics

Supplement with
- Ethics
- Law/CLJ
- Testimony
- "Other"

Create a Professional Forensic Scientist

"Applying the Scientific Method"
Where Do Forensic Science Graduates Go?

Graduate School
- Chemistry
- Biology
- Entomology
- Anthropology
- Cyber-Forensics

Government Employment
- Gov't. Crime Lab

Private Employment
- Pvt. Forensic Lab

Professional School
- Medical School
- Law School
- Dental School

Law Enforcement
- Local Police
- Federal Police
Crime Scene Training
FRNSC 410/415W

- State-of-the-Art CSI Training Facility
- Spruce/Pine Cottage
  - Victorian Mansion
  - 4 Stories of crime scenes
Crime Scenes at Spruce Cottage
What Students Learn in CSI Training

- The role of 1st responders
  - Police officers, medical personnel
- Sketching the scene
- Photography the scene
- Documenting elements of the scene
- Evidence recognition
  - “The Power of Observation”
- Evidence collection and preservation
What Students Learn in CSI Training

- Impression evidence
  - Footwear, bite marks
- Bullet trajectories
- Biological fluids
  - Bloodstain analysis
Lifting Footprints
Bullet Trajectory
Trace Laboratory: FRNSC 411

State-of-the-Art Advanced Laboratory Facilities
Trace Laboratory: FRNSC 411

Topics include:

Trace evidence -
- hair, fibers, paint, glass

Firearms -
- bullet comparison
- gun shot residue analysis
- muzzle-to-target distance determinations
Blood, semen, saliva, urine, hairs
Protein markers, serological testing
Sperm searches, DNA extraction
Topics include:
Biological evidence – blood, semen, and saliva
Soil analysis
Trace evidence
Capstone Course
FRNSC 401W

Combines CSI with crime laboratory processing, crime scene reconstruction & old case review
Along with testimony training
Forensic DNA Lab

Advanced DNA Methods

Y-chromosome and mtDNA Analysis

All types of human biological fluids

SPECIALIZED TRAINING
Forensic Chemistry Lab

Analysis of GSR

Chemical analysis of powders, fibers, paints and other trace evidence

Drug Analysis

SPECIALIZED TRAINING
Forensic Biology

www.forensics.psu.edu

Criminalistics

Crime Scene Investigation

Forensic Chemistry