The Forensic Sciences Track focuses on providing students with a fundamental understanding of the methods that are used within the fields of digital, impression and biological forensic science. Each session will provide an overview of the discipline and then allow for hands-on instruction. Participants will be able to perform the following forensic tasks: lift fingerprints, analyze a DNA profile, recover deleted files, compare cartridge casings, analyze blood, and compare tire impressions.

Below are concurrent session descriptions and the speakers you can plan to enjoy in the Forensic Sciences Track.

**Forensic Sciences Track Concurrent Session Topics:**

- **Digital Evidence** – This session will explore the prevalence of the use of digital devices in every type of crime and how digital forensics helps solve a wide variety of offenses.
- **Impression Evidence** - This session will serve as an introduction to the collection, preservation, and analysis of impression evidence. Techniques covered will include chemical and physical processing of latent fingerprints, fingerprint analysis and comparison using ACE-V methodology, and shoe print/tire tread analysis. The session will utilize an active learning approach and allow participants hands-on opportunities to learn the correct application of impression evidence practices.
- **Biological Evidence** - This session will serve as an introduction to the collection, preservation, and analysis of DNA-based evidence. Attendees will be able to perform forensic serology tests and analyze DNA profiles.
- **Bloodstain Pattern** - This workshop will serve as an introduction to the collection, preservation, and analysis of bloodstain pattern evidence. Attendees will be provided the opportunity to analyze bloodstain patterns and draw conclusions based on the evidence.
- **Forensic Science Panel Discussion** - This session features a panel discussion with an opportunity for attendees to interact with professional crime scene investigators and laboratory forensic scientists. Attendees will be able to ask questions of the speakers and the speakers will provide insight into the field of forensic science.

**Forensic Sciences Track Scheduled Speakers:**

- **Dr. James Creecy** has a dual appointment to the Forensic Science Institute and Department of Biology at the University of Central Oklahoma (UCO). Prior to his employment with UCO, Dr. Creecy was a Serologist and DNA Analyst for the Oklahoma City Police Department (OCPD) Crime Laboratory. Dr. Creecy's service and experience contributes expertise in the areas of microscopic and macroscopic examination of biological material, nuclear and mitochondrial DNA analysis, forensic application of population statistics, operational knowledge of the CODIS database, and professional continuing education of law enforcement and medical personnel.

- **Mr. Timothy Dwyer** earned his Bachelor's Degree in Mortuary Science from the University of Central Oklahoma in 2002. He then obtained a job as a Medicolegal Death Investigator for the Office of the Chief Medical Examiner, where he is still currently employed in the field. From 2009-2016 he served as the Chief Investigator. He is also on the Board of Directors for the American Board of Medicolegal Death Investigators where he is currently serving as the Vice President. Currently, he is a graduate student in the Master's Program at the Forensic Science Institute.
• **Ms. Chelsea Fort** earned her Bachelor of Science degree in Biology from Southwestern College in 2012. She then obtained a Master’s degree in Forensic Science from the University of Central Oklahoma-Forensic Science Institute in 2014, emphasizing in forensic chemistry. She has worked for the Office of the Chief Medical Examiner of Oklahoma for over four years as a Forensic Chemist in the Toxicology laboratory. Chelsea has published numerous papers in the fields of forensic chemistry and toxicology and is a member of the Southwestern Association of Toxicologists.

• **Mr. R. Craig Gravel** is a retired Lieutenant with the Oklahoma City Police Department. With 25 years of service at the Department, he has been assigned to the Investigations Bureau for 21 years serving as a detective in the Larceny, Missing Persons, Robbery and Homicide Units. He was promoted to the rank of Lieutenant in 1993 and was a supervisor in the Crime Scene Unit for more than 10 years. He has been an Adjunct Professor at the University of Central Oklahoma for the past 7 years from 2002 to 2013 instructing Basic and Advanced Bloodstain Pattern Analysis in the Master of Forensic Science Program. He has also taught at the University of Oklahoma, Oklahoma State University, Oklahoma City Police Homicide School, the Police Citizens Academy, Public Agency Training Council and TBI, LLC.

• **Ms. Keisha Jones** has been a crime scene processing adjunct instructor at the UCO Forensic Science Institute since 2015. Prior to that, she was employed with the Midwest City Police Department for 4½ years, as first a technical investigator, and was then promoted to Crime Lab Director. During this time, she helped develop the technical investigator and crime scene technician training programs and received certification as a crime scene investigator through the International Organization for Identification. Keisha’s education includes a B.S. degree in chemistry from Oklahoma State University and an M.S. degree in forensic science from the University of Central Oklahoma.

• **Dr. Mark McCoy** joined the faculty at UCO following retirement from the Oklahoma State Bureau of Investigation (OSBI). Dr. McCoy specialized in computer crimes and the forensic examination of digital evidence and was the first supervisor of the OSBI Computer Crime Unit. He has been Certified Forensic Computer Examiner (CFCE), since 1996 and has testified as an expert witness in state and federal court. Dr. McCoy serves as the Forensic Science Institute's Digital Evidence Program Administrator; his research interests include digital forensics, computer crime, the application of technology in law enforcement and law enforcement education and training.

• **Ms. Caitlin Porterfield** received a BS with Honors in Biochemistry from the University of Oklahoma (OU) and an MS in Forensic Science with an emphasis in DNA analysis from the University of Central Oklahoma (UCO). Her thesis research focused on the genetic, microscopic, and chemical evaluation of processed human hair extensions for their probative value in forensic casework. Currently, Ms. Porterfield is a Forensic Science Instructor at UCO. Her courses focus on the forensic analysis of impression evidence to include firearms and toolmarks, fingerprints, and tire tread/shoe print impressions.

• **Ms. Mia White** obtained her Bachelor of Arts in psychology from Oklahoma State University and her Master of Science in forensic science from the University of Central Oklahoma Forensic Science Institute. She completed her graduate thesis research examining the dormant periods in serial homicide cases. Mia is currently employed as a crime scene investigator with the Edmond Police Department.