

# FORENSIC ARSON, EXPLOSIVES, FIREARMS, AND TOOLMARKS INVESTIGATION, GCRT

**Requirements for Students Matriculating in or before Academic Year 2024-2025.** Learn more about Graduate College Academic Regulation 7.0 (<http://catalog.okstate.edu/graduate-college/#70>).

**Total Hours:** 12

Code	Title	Hours
<b>Required Hours</b>		
<i>Degree Core</i>		
Select 6 hours from the following:		6
FRNS 5013	Survey of Forensic Sciences	
FRNS 5063	Ethical Research and Scientific Writing	
FRNS 5073	Quality Assurance in Forensic Science	
FRNS 5613	Criminalistics and Evidence Analysis	
FRNS 5653	The Law and Expert Evidence	
FRNS 5963	Forensic Statistics	
<b>Hours Subtotal</b>		<b>6</b>
<b>Electives</b>		
Select 6 hours from the following:		6
FRNS 5083	Ethics in Forensic Leadership	
FRNS 5090	Internship in Forensic Sciences	
FRNS 5103	The Chemistry of Pyrotechnics	
FRNS 5113	Essential Science for Explosive Operators	
FRNS 5123	Fire Dynamics in Forensic Investigations	
FRNS 5133	Ordnance Identification and Recognition	
FRNS 5143	Methods in Fire and Explosion Investigation NFPA 921/1033	
FRNS 5153	Explosives Research, Testing and Evaluation Methods	
FRNS 5183	Computer Fire Modeling	
FRNS 5273	Forensic Threat Assessment and Management	
FRNS 5293	Violence in Forensic Settings	
FRNS 5333	Forensic Chemistry	
FRNS 5413	Forensic Pathology and Medicine	
FRNS 5423	Blast Injuries and Effects	
FRNS 5443	Interdisciplinary Post Blast Investigation	
FRNS 5453	Fingerprints and Their Role in Forensic Science	
FRNS 5463	Blood Stain and Pattern Analysis	
FRNS 5473	Forensic Crime Scene Processing	
FRNS 5513	Forensic Bioscience	
FRNS 5523	Forensic Toxicology	
FRNS 5643	Law and Expert Evidence: Firearms and Toolmarks	
FRNS 5663	Destructive Devices/Explosives: Law and Regulations	

FRNS 5673	Intelligence for Forensic Investigators
FRNS 5683	Digital and Multimedia Evidence for Investigators
FRNS 5693	Battlefield Forensics and the Global War on Terror
FRNS 5713	Forensic Psychology
FRNS 5723	Advanced Forensic Psychology
FRNS 5743	Forensic Science Seminar
FRNS 5803	Circuit Exploitation of Destructive Devices
FRNS 5813	Building Construction and Fire/Explosion Forensic Examination
FRNS 5823	Forensic Examination of Fire Protection Systems
FRNS 5833	Identification of Destructive Device Fuzing Systems
FRNS 5853	Electrical Theory and Failure Analysis in Forensic Fire Investigations
FRNS 5873	Firearms and Toolmarks
FRNS 5883	History of Firearm Identification
FRNS 5893	Admissibility of Firearm Identification
FRNS 5943	Forensic Management and Organizational Development
FRNS 5970	Directed Readings in Forensic Sciences
FRNS 5990	Special Topics in Forensic Sciences (Forensic Evidence Processing for Post-Blast Investigations)
FRNS 5990	Special Topics in Forensic Sciences (Advanced Forensic Evidence Processing for Post-Blast Investigations)
FRNS 5990	Special Topics in Forensic Sciences (Introduction to Digital Evidence)
FRNS 5990	Special Topics in Forensic Sciences
FRNS 5990	Special Topics in Forensic Sciences (Forensic Engineering for Investigators)
FRNS 5990	Special Topics in Forensic Sciences (Forensic Examination of Firearms)
FRNS 5990	Special Topics in Forensic Sciences (Advanced Forensic Examination of Firearms)
FRNS 5990	Special Topics in Forensic Sciences (Forensic Examination of Toolmarks)
FRNS 5990	Special Topics in Forensic Sciences (Advanced Forensic Examination of Toolmarks)
FRNS 6113	Advanced Energetic Materials Chemistry and Engineering
FRNS 6123	Advanced Fire Dynamics
FRNS 6173	Advanced Interdisciplinary Post Blast Investigation
FRNS 6183	Advanced Computer Fire Modeling
FRNS 6263	Threat Assessment and Management of Violent Extremism
FRNS 6400	Case Studies in Forensic Science
FRNS 6423	Advanced Blast Injuries and Effects
FRNS 6663	Network Forensics
FRNS 6673	Mobile Device Forensics

FRNS 6683	Computer Forensics, Extractions and Analysis	
FRNS 6833	Advanced Identification of Destructive Device Fuzing Systems	
FRNS 6843	Advanced Destructive Device Circuit Exploitation	
FRNS 6853	Advanced Electrical Theory and Failure Analysis in Forensic Fire Investigations	
FRNS 6903	Advanced Forensic Examination of Firearms	
FRNS 6913	Advanced Toolmark Examination and Identification	
FRNS 6923	RCIED - Advanced Analysis and Mitigation	
FRNS 6933	Shooting Reconstruction for Examiners	
FRNS 6990	Advanced Special Topics in Forensic Sciences	
<b>Hours Subtotal</b>		<b>6</b>

Other FRNS courses not listed may be used as an elective with departmental permission.

No more than 2 courses (6 hours) can overlap between any two or more Graduate Certificates in Forensic Sciences.

<b>Total Hours</b>		<b>12</b>
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## Graduate College Certificate Requirements

Learn more about Graduate College 2024-2025 Graduate Certificate Program Requirements (<http://catalog.okstate.edu/graduate-college/>). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.