Bachelor of Science in Forensic Science and Investigation

For more information about forensic science and investigation, email JCS@MiamiOH.edu (forensicscience@MiamiOH.edu) or call 513-785-7702.

Forensics is the application of science in law. More specifically, forensics is the methodical gathering and analysis of evidence to be used in legal proceedings. The Bachelor of Science in Forensic Science and Investigation has two majors, Forensic Science and Forensic Investigation. The Forensic Science major is interdisciplinary with courses drawn from the natural sciences, criminal justice, and other disciplines. The Forensic Science major is designed to prepare students to work as criminalists, as crime scene technicians and as forensic scientists in various laboratory settings. The Forensic Investigation major is also interdisciplinary with courses in criminal justice, computer information technology, global information systems, the social sciences and other disciplines. The Forensic Investigation major is intended to prepare students for policing and investigative occupations.

Advancing analytical and critical thinking, problem-solving, oral and written communication, technology, quantitative literacy, ethics, application of learning in the field, civic learning, and an appreciation of diversity and of the increasingly global world are core objectives of the degree. The goal is to graduate students who possess the knowledge, experiences, and skills needed to lead a meaningful, reflective life, who will be productive and contributing citizens, who will be successful in their forensic and criminal justice careers, and who will be life-long learners.

Forensic Science- Bachelor of Science in Forensic Science and Investigation Program Requirements

In addition to the general education requirements, the Miami Plan for Liberal Education, students in the forensic science major will complete 46 hours of natural science courses, 16 hours of criminal justice courses, 15 hours of other required courses, and three additional courses of the student's choice. The courses required to reach the 124 hours minimum are electives of the student's choice. Students majoring in forensic investigation are not permitted to double major in criminal justice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criminal Justice Core courses</strong></td>
<td></td>
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</tr>
<tr>
<td>CJS 101</td>
<td>Introduction to the Criminal Justice Studies</td>
<td>3</td>
</tr>
<tr>
<td>CJS 231</td>
<td>Law and Individual Rights</td>
<td>3</td>
</tr>
<tr>
<td>CJS 235</td>
<td>Forensic Science Survey</td>
<td>3</td>
</tr>
<tr>
<td>CJS 272</td>
<td>Forensic and Crime Scene Evidence</td>
<td>3</td>
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<tr>
<td>CJS 411</td>
<td>Evidence Law and Expert Testimony</td>
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<tr>
<td><strong>Natural Science Core courses</strong></td>
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<tr>
<td>BIO 116</td>
<td>Biological Concepts: Structure, Function, Cellular, and Molecular Biology</td>
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<tr>
<td>BIO 342</td>
<td>Genetics</td>
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<tr>
<td>BIO 364</td>
<td>Molecular Techniques</td>
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<tr>
<td>CHM 141</td>
<td>College Chemistry</td>
<td>5</td>
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<tr>
<td>CHM 144</td>
<td>College Chemistry Laboratory</td>
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<tr>
<td>CHM 244</td>
<td>Organic Chemistry</td>
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<td>CHM 245</td>
<td>Organic Chemistry</td>
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<tr>
<td>CHM 421</td>
<td>Organic Chemistry</td>
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<tr>
<td>CHM 363</td>
<td>Analytical Chemistry</td>
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<tr>
<td>STC 135</td>
<td>Principles of Public Speaking</td>
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<td><strong>Additional Required Courses</strong></td>
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<tr>
<td>CJS 282</td>
<td>Writing in Criminal Justice</td>
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<tr>
<td>or EGS 215</td>
<td>Workplace Writing</td>
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<tr>
<td>or ENG 313</td>
<td>Technical Writing</td>
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<tr>
<td>MTH 125</td>
<td>Precalculus</td>
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<tr>
<td>or MTH 151</td>
<td>Calculus I</td>
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<tr>
<td>STA 261</td>
<td>Statistics</td>
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<tr>
<td>STC 135</td>
<td>Principles of Public Speaking</td>
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<tr>
<td><strong>Specialized Electives</strong></td>
<td>Select three of the following: 8-14</td>
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<tr>
<td>ATH 212</td>
<td>Introduction to Archaeological Theory and Methods</td>
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<tr>
<td>ATH 255</td>
<td>Foundations of Biological Anthropology</td>
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<tr>
<td>ATH 415</td>
<td>Field Methods in Archaeology</td>
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<tr>
<td>BIO 171</td>
<td>Human Anatomy and Physiology</td>
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<tr>
<td>BIO 172</td>
<td>Human Anatomy and Physiology</td>
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<tr>
<td>BIO 203</td>
<td>Introduction to Cell Biology</td>
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<td>CHM 332</td>
<td>Outlines of Biochemistry</td>
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<tr>
<td>CHM 454</td>
<td>Instrumental Analysis</td>
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<tr>
<td>CHM 460</td>
<td>Topics in Analytical Chemistry (maximum 12)</td>
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<tr>
<td>CHM 421</td>
<td>Forensic Trace Analysis</td>
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<td>CHM 421L</td>
<td>Forensic Trace Analysis Laboratory</td>
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<tr>
<td>CIT 286</td>
<td>Designing and Deploying Secure Enterprise Networks</td>
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<tr>
<td>MBI 365</td>
<td>Molecular and Cell Biology</td>
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</tbody>
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Total Credit Hours 84-90
Forensic Investigation- Bachelor of Science in Forensic Science and Investigation

Program Requirements

In addition to the general education requirements, the Miami Plan for Liberal Education, students in the forensic investigation major will complete 63 hours in the major and two additional courses of the student's choice. The courses required to reach the 124 hours minimum are electives of the student's choice.

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<tr>
<td>CJS 125</td>
<td>Law and the Courts</td>
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<tr>
<td>CJS 211</td>
<td>Policing in America</td>
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</tr>
<tr>
<td>CJS 231</td>
<td>Law and Individual Rights</td>
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<tr>
<td>CJS 232</td>
<td>Criminal Defense and Adjudication</td>
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<tr>
<td>CJS 235</td>
<td>Forensic Science Survey</td>
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<tr>
<td>CJS 271</td>
<td>Criminal Behavior</td>
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<tr>
<td>or SOC 352</td>
<td>Criminology</td>
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<td>CJS 272</td>
<td>Forensic and Crime Scene Evidence</td>
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<td>CJS 411</td>
<td>Evidence Law and Expert Testimony</td>
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<td>CJS 461</td>
<td>Applied Research Methods in Criminal Justice</td>
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<td><strong>Additional Required Courses</strong></td>
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<tr>
<td>ATH 212</td>
<td>Introduction to Archaeological Theory and Methods</td>
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<tr>
<td>CHM 121</td>
<td>Introduction to Forensic Chemistry</td>
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<tr>
<td>CIT 154</td>
<td>Personal Computer Concepts and Applications</td>
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<tr>
<td>or CMR 181</td>
<td>Computers and Business</td>
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<tr>
<td>CIT 262</td>
<td>Technology, Ethics, and Global Society</td>
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<tr>
<td>CIT 358</td>
<td>Information Technology Assurance and Security</td>
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<tr>
<td>GEO 441</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEO 442</td>
<td>Advanced Geographic Information Systems</td>
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<tr>
<td>GEO 445</td>
<td>Geographic Information Systems for Criminal Justice</td>
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<td>Statistics</td>
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<td><strong>Forensic Investigation Electives</strong></td>
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<tr>
<td>ART 389</td>
<td>The History of Photography</td>
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<tr>
<td>ATH 415</td>
<td>Field Methods in Archaeology</td>
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<tr>
<td>BIO 342</td>
<td>Genetics</td>
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<tr>
<td>CJS 220</td>
<td>Criminal Justice Field Experience</td>
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<tr>
<td>CJS 256</td>
<td>Police Organization, Administration, and Management</td>
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<td>CJS 276</td>
<td>Homeland Security and Critical Incident Management</td>
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<td>CJS 321</td>
<td>Criminal Justice Administration</td>
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<tr>
<td>CJS 401</td>
<td>Race and Criminal Justice</td>
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Total Credit Hours: 66-68