

# Course Outcome Guide (COG)

<b>Course:</b>	CHEM 112: Introduction to Forensic Science	<b>Credits:</b>	4	<b>Date updated:</b>	1/8/16
<b>Course Description:</b>	This course will cover the topics: crime scenes and physical evidence, fingerprint identification, comparisons of soil, glass, hair, fiber and paint samples, analysis of blood and DNA, firearm and tool identifications, and introductions into many of the subfields of forensics.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> <li>• Crime scene investigation and reconstruction</li> <li>• Evidence handling</li> <li>• Death Investigation</li> <li>• Analysis of fingerprint, glass, hair, fiber, metals, paint, soil, drug, and DNA evidence</li> <li>• Microscope and spectroscopy tools</li> <li>• Toxicology</li> <li>• Firearms and tool marks</li> <li>• Data collecting, recording, and analyzing</li> </ul>	<ul style="list-style-type: none"> <li>• Show proper crime scene investigation techniques</li> <li>• Explain proper evidence handling</li> <li>• Explain proper death investigations</li> <li>• Analyze a wide variety of forensic evidence</li> <li>• Demonstrate proper usage of equipment</li> <li>• Identify tool marks</li> <li>• Examine arson evidence</li> <li>• Analyze DNA evidence</li> <li>• Demonstrate ability to follow directions</li> <li>• Collect data and explain deviations from expectations.</li> </ul>	<ol style="list-style-type: none"> <li>1. Fill in lab reports</li> <li>2. Homework assignments</li> <li>3. Group studies</li> <li>4. Chapter quizzes</li> <li>5. Examinations</li> </ol>	Students will be able to: <ol style="list-style-type: none"> <li>1. Develop problem solving skills with logical steps.</li> <li>2. Understand the potential, and limitations, of forensic science.</li> </ol>	Students will: <ol style="list-style-type: none"> <li>2. Use reasoning skills to analyze and solve problems.</li> </ol>	Students will: <ol style="list-style-type: none"> <li>2. Use reasoning skills to analyze and solve problems.</li> </ol>