



## The International Association of Computer Investigative Specialists

### RAM Capture Analysis Course Schedule

Day	
<b>Monday</b>	<p>Lecture:</p> <ul style="list-style-type: none"> <li>➤ Computer Setup</li> <li>➤ Bypassing a lock screen</li> <li>➤ Understanding the Kernel and Address translation</li> </ul> <p>Labs:</p> <ul style="list-style-type: none"> <li>➤ Building tools to bypass a Windows lock screen</li> <li>➤ Bypass a Windows 11 lock screen</li> <li>➤ Capturing RAM on a locked Windows machine.</li> </ul>
<b>Tuesday</b>	<p>Lecture:</p> <ul style="list-style-type: none"> <li>➤ Additional sources of RAM</li> <li>➤ Linux and Macintosh</li> <li>➤ Tools to capture RAM and the differences</li> </ul> <p>Labs:</p> <ul style="list-style-type: none"> <li>➤ RAM capture with several commercial and open source programs</li> <li>➤ Remote RAM Capture</li> </ul>
<b>Wednesday</b>	<p>Lecture:</p> <ul style="list-style-type: none"> <li>➤ Tools to analyze RAM</li> <li>➤ Understand what can be found in RAM</li> </ul> <p>Labs:</p> <ul style="list-style-type: none"> <li>➤ Using command line to parse memory dumps</li> </ul>
<b>Thursday</b>	<p>Lecture:</p> <ul style="list-style-type: none"> <li>➤ Advanced RAM analyzing</li> <li>➤ Open source intelligence gathering for password creation</li> <li>➤ Password cracking programs</li> </ul> <p>Labs:</p> <ul style="list-style-type: none"> <li>➤ RAM analysis with Memproc-FS</li> <li>➤ Password cracking files with john the ripper and hashcat (docx, pdf, xls, SAM, NTLM)</li> </ul>
<b>Friday</b>	<p>Lecture:</p> <ul style="list-style-type: none"> <li>➤ Encryption- Bitlocker, Truecrypt/veracrypt</li> </ul> <p>Labs:</p> <ul style="list-style-type: none"> <li>➤ Opening and examining a bitlocker OS drive using command line.</li> <li>➤ Opening and examining a truecrypt file using command line</li> </ul>