
ETHICAL HACKING CAPSTONE

CSC 246**Ethical Hacking Capstone****3.0 UNITS**

This capstone course provides students with a comprehensive, hands-on ethical hacking experience that reflects professional practice in corporate, government, and private-sector cybersecurity environments. Students engage in a structured ethical hacking lifecycle that includes authorization and scoping, reconnaissance, vulnerability identification, controlled exploitation, post-exploitation analysis, and remediation planning. The course emphasizes the use of industry-recognized tools and established penetration testing methodologies while reinforcing legal compliance, professional ethics, and responsible disclosure. The capstone culminates in a formal technical report and presentation, through which students demonstrate job-ready skills in penetration testing, risk analysis, and professional communication aligned with ethical hacking certifications and entry-level cybersecurity roles. Lab hours reinforce concepts included in lectures