Field Trip # 35	Ethical Hacking
Developed by:	Todd McDonald
Subject:	Ethical Hacking
Short description:	This is an NSF-sponsored hands-on learning activity where students with some
	knowledge of computers and programming can gain deeper insight into software
	security
Educational Level:	$11^{\text{th}} - 12^{\text{th}}$ Grade
Field trip type:	Workshop
Educational	The Student will be able to:
Outcomes:	Understand the consequences of illegal hacking
	Differentiate between ethical and unethical hacking
	Compute and understand binary and hexadecimal numbers
	Explain the goals of a reverse engineer
	 Define a man-at-the-end (MATE) attack
	Use a dynamic analysis tool to understand and reverser engineer a program
Content:	The topic focuses on both illegal and ethical uses of hacking and will highlight the

The topic focuses on both illegal and ethical uses of hacking and will highlight the negative and illegal consequence of malicious hacking. Students will learn how software can be analyzed to change its intended behavior and learn concepts related to penetration testing and securing software from attack.

Notes to instructor: