



NEW BEGINNINGS
COMPUTER TRAINING, LLC

COURSE SYLLABUS

PROGRAM INFORMATION:

Program Name	<u>White Hat Hacking</u>	Program Number	<u>7734</u>
Hours Per Week	<u>18</u>	Total Weeks	<u>16</u>
Lecture Hours	<u>192</u>	Lab Hours	<u>96</u>
Prerequisites	<hr/>		
Co-Requisites	<hr/>		

CLASS MEETS AS FOLLOWS:

Monday – Thursday Lecture/Lab/Study
Days / 8:00 AM -12:00 PM Afternoons / 12:30PM - 4:30 PM Evenings /5:00 PM – 9:00 PM

Friday School is opened from 8:00 – 2:00 p.m. for study and testing

Fridays are reserved for additional study and Progress Assessments. Program Assessments are a mandatory part of the program. Students are expected to attend 2 hours on Fridays. IF they cannot attend on Fridays, they are expected to attend 2 hours extra Monday through Thursday. It is up to the student to arrange with the instructor or school directors for these special requests.

INSTRUCTOR INFORMATION:

Name: _____

Phone: _____ Cell Office

Email: _____

DESCRIPTION:

This course will immerse you into the Hacker Mindset so that you will be able to defend against future attacks. The security mindset in any organization must not be limited to the silos of a certain vendor, technologies or pieces of equipment. You will be taught the five phases of ethical hacking and the ways to approach your target and succeed at breaking in every time! The five phases include Reconnaissance, Gaining Access, Enumeration, Maintaining Access, and covering your tracks. To provide the student with the knowledge necessary to:

- Hacking Basics/Cryptography/Attacks
- Information Gathering/Scanning/Enumeration
- Sniffers/Evasions/ Hacking – Wireless Networks
- Attacking Systems/Physical Security
- Social Engineering
- Web Based Hacking Server/Apps

GOALS/OBJECTIVES:

The **White Hat hacking** program is designed for those seeking a career as an IT professional working in the information technology departments of medium to large organizations. The student will also develop professional skills to assist in the obtainment of work and promotion in the IT industry.

Examples of occupations include, but are not limited to:

- Data Security/Penetration Testing

INSTRUCTIONAL MATERIALS & REFERENCES:

Text Book: CEH v9 Certified Ethical Hacker – **Arthur:** Matt Walker – **Publisher:** McGraw Hill – **ISBN:** 987-1259836558

Videos: Author: Mike Rodrick, Adam Gordon

White Hat Hacking Training Videos

1. Introduction to Ethical Hacking Part 1, Introduction to Ethical Hacking Part 2, Introduction to Ethical Hacking Part 3, Introduction to Ethical Hacking Part 4
2. Footprinting and Reconnaissance Part 1, Footprinting and Reconnaissance Part 2, Footprinting and Reconnaissance Part 3, Footprinting and Reconnaissance Part 4
3. Scanning Networks Part 1, Scanning Networks Part 2, Scanning Networks Part 3
4. Enumeration Part 1, Enumeration Part 2, Enumeration Part 3
5. System Hacking Part 1, System Hacking Part 2, System Hacking Part 3, System Hacking Part 4
6. Malware Threats Part 1, Malware Threats Part 2, Malware Threats Part 3
7. Sniffing Part 1, Sniffing Part 2, Sniffing Part 3
8. Social Engineering
9. Denial of Service Part 1, Denial of Service Part 2
10. Session Hijacking Part 1, Session Hijacking Part 2, Session Hijacking Part 3
11. WEB Servers
12. Web Applications Part 1, Web Applications Part 2
13. SQL Injection
14. Wireless Networks Part 1, Wireless Networks Part 2, Wireless Networks Part 3
15. Mobile Platforms
16. IDS, Firewalls and Honeypots Part 1, IDS, Firewalls and Honeypots Part 2, IDS, Firewalls and Honeypots Part 3
17. Cloud Computing Part 1, Cloud Computing Part 2, Cloud Computing Part 3, Cloud Computing Part 4
18. Cryptography Part 1, Cryptography Part 2, Cryptography Part 3, Cryptography Part 4

INSTRUCTIONAL METHOD:

Lecture with Discussion and Multimedia Learning Methods.

- 1) Lecture on Topic
- 2) Instructional Video (s)
- 3) LAB - Hands-On Activities
- 4) Questions
- 5) Quiz's

ASSESSMENT CRITERIA AND EVALUATION:

The following is the grading scale based on the percentage of points earned over the length of a program or course.

% OF TOTAL POINTS EARNED	LETTER GRADE
90-100	A
80-89	B
70-79	C
60-69	D
59 or Below	F
Leave of Absence	LOA

The final program grade of the student will be comprised of four different components, each critical to the success of the student. The following table shows the percentage of the total grade each of the four components comprises:

CRITERIA	% OF TOTAL GRADE
Assessments	30%
Quizzes	30%
Laboratory/Hands-On	20%
Certification Exams	20%

TOPICAL OUTLINE:

Week	Topic	Required Reading/Assignments Etc.
Week 1	Introduction to Ethical Hacking	
Monday	Introduction to Ethical Hacking Part 1 and Part 2	Lecture: Introduction to Ethical Hacking Part 1 and Part 2 Video: Introduction to Ethical Hacking Part 1 and Part 2 Labs: Introduction to Ethical Hacking Part 1 and Part 2 Questions: Introduction to Ethical Hacking Part 1 and part 2

Week	Topic	Required Reading/Assignments Etc.
Tuesday	Introduction to Ethical Hacking Part 1 and Part 2	Quiz: Introduction to Ethical Hacking Part 1 and Part 2
Wednesday	Introduction to Ethical Hacking Part 3 and Part 4	Lecture: Introduction to Ethical Hacking Part 3 and Part 4 Video: Part 3 and Part 2 Introduction to Ethical Hacking Labs: part 3 and part 4 Introduction to Ethical Hacking Questions Part 3 and Part 4 Introduction to Ethical Hacking
Thursday	Introduction to Ethical Hacking Part 3 and Part 4	Quiz: Part 3 and part 4 Introduction to Ethical Hacking
Friday		Study, Assessment, or Exam
Week 2	Footprinting and Reconnaissance	
Monday	Footprinting and Reconnaissance Part 1 and Part 2	Lecture: Footprinting and Reconnaissance Part 1 and Part 2 Videos: Footprinting and Reconnaissance Part 1 and part 2 Labs: Footprinting and Reconnaissance Part 1 and Part 2 Questions: Footprinting and Reconnaissance Part 1 and Part 2
Tuesday	Footprinting and Reconnaissance Part 1 and Part 2	Quiz: Footprinting and Reconnaissance Part 1 and part 2
Wednesday	Footprinting and Reconnaissance Part 3 and part 4	Lecture: Footprinting and Reconnaissance Part 3 and Part 4 Videos: Footprinting and Reconnaissance Part 3 and Part 4 Labs: Footprinting and Reconnaissance Part 3 and Part 4 Questions: Footprinting and Reconnaissance Part 3 and part 4
Thursday	Footprinting and Reconnaissance Part 3 and Part 4	Quiz: Footprinting and Reconnaissance Part 3 and Part 4
Friday		Study, Assessment, or Exam
Week 3	Scanning Networks	

Week	Topic	Required Reading/Assignments Etc.
Monday	Scanning Networks Part 1 and Part 2	Lecture: Scanning Networks Part 1 and Part 2 Video: Scanning Networks Part 1 and Part 2 Labs: Scanning Networks Part 1 and Part 2 Questions: Scanning Networks Part 1 and Part 2
Tuesday	Scanning Networks Part 1 and Part 2	Quiz: Scanning Networks Part 1 and Part 2
Wednesday	Scanning Networks Part 3	Lecture: Scanning Networks Part 3 Video: Scanning Networks Part 3 Labs: Scanning Networks Part 3 Questions: Scanning Networks Part 3
Thursday	Scanning Networks Part 3	Quiz: Scanning Networks Part 3
Friday		Study, Assessment, or Exam
Week 4	Enumeration	
Monday	Enumeration Part 1 and Part 2	Lecture: Enumeration Part 1 and Part 2 Video: Enumeration Part 1 and Part 2 Labs: Enumeration Part 1 and Part 2 Questions: Enumeration Part 1 and Part 2
Tuesday	Enumeration Part 1 and Part 2	Quiz: Enumeration Part 1 and Part 2
Wednesday	Enumeration Part 3	Lecture: Enumeration Part 3 Video: Enumeration Part 3 Labs: Enumeration Part 3 Questions: Enumeration Part 3
Thursday	Enumeration Part 3	Quiz: Enumeration Part 3

Week	Topic	Required Reading/Assignments Etc.
Friday		Study, Assessment, or Exam
Week 5	System Hacking	
Monday	System Hacking Part 1 and part 2	Lecture: System Hacking Part 1 and part 2 Video: System Hacking Part 1 and Part 2 Labs: System Hacking Part 1 and Part 2 Questions: System Hacking Part 1 and Part 2
Tuesday	System Hacking Part 1 and part 2	Quiz: System Hacking Part 1 and part 2
Wednesday Windows	System Hacking Part 3 and Part 4	Lecture: System Hacking Part 3 and part 4 Video: System Hacking Part 3 and Part 4 Labs: System Hacking Part 3 and part 4 Questions: System Hacking Part 3 and Part 4
Thursday	System Hacking Part 3 and part 4	Quiz: System Hacking Part 3 and Part 4
Friday		Study, Assessment, or Exam
Week 6	Malware Threats	
Monday	Malware Threats Part 1 and Part 2	Lecture: Malware Threats Part 1 and Part 2 Video: Malware Threats Part 1 and Part 2 Labs: Malware Threats Part 1 and Part 2 Questions: Malware Threats Part 1 and Part 2
Tuesday	Malware Threats Part 1 and Part 2	Quiz's: Malware Threats Part 1 and Part 2
Wednesday	Malware Threats Part 3	Lecture: Malware Threats Part 3 Video: Malware Threats Part 3 Labs: Malware Threats Part 3 Questions: Malware Threats Part 3
Thursday	Malware Threats Part 3	Quiz's: Malware Threats Part 3

Week	Topic	Required Reading/Assignments Etc.
Friday		Study, Assessment, or Exam
Week 7	Sniffing	
Monday	Sniffing Part 1 and Part 2	Lecture: Sniffing Part 1 and Part 2 Video: Sniffing Part 1 and Part 2 Labs: Sniffing Part 1 and Part 2 Questions: Sniffing Part 1 and Part 2
Tuesday	Sniffing Part 1 and Part 2	Quiz's: Sniffing Part 1 and Part 2
Wednesday	Sniffing Part 3	Lecture: Sniffing Part 3 Video: Sniffing Part 3 Labs: Sniffing Part 3 Questions: Sniffing Part 3
Thursday	Sniffing Part 3	Quiz: Sniffing Part 3
Friday		Study, Assessment, or Exam
Week 8	Social Engineering	
Monday	Social Engineering	Lecture: Social Engineering Course Video: Social Engineering Course Labs: Social Engineering Course Questions: Social Engineering Course
Tuesday	Social Engineering	Quiz: Social Engineering Course
Wednesday	Denial of Service Part 1 and Part 2	Lecture: Denial of Service Part 1 and Part 2 Video: Denial of Service Part 1 and Part 2 Labs: Denial of Service Part 1 and Part 2 Questions: Denial of Service Part 1 and Part 2
Thursday	Denial of Service Part 1 and Part 2	Quiz: Denial of Service Part 1 and Part 2

Week	Topic	Required Reading/Assignments Etc.
Friday		Study, Assessment, or Exam
Week 9	Session Hijacking	
Monday	Session Hijacking Part 1 and Part 2	Lecture: Session Hijacking Part 1 and Part 2 Video: Session Hijacking Part 1 and Part 2 Labs: Session Hijacking Part 1 and Part 2 Questions: Session Hijacking Part 1 and Part 2
Tuesday	Session Hijacking Part 1 and Part 2	Quiz: Session Hijacking Part 1 and Part 2
Wednesday	Session Hijacking Part 3	Lecture: Session Hijacking Part 3 Video: Session Hijacking Part 3 Labs: Session Hijacking Part 3 Questions: Session Hijacking Part 3
Thursday	Session Hijacking Part 3	Quiz: Session Hijacking Part 3
Friday		Study, Assessment, or Exam
Week 10	Hacking Web Servers	
Monday	Hacking Web Servers	Lecture: Hacking Web Servers Video: Hacking Web Servers Course Labs: Hacking Web Servers Course Questions: Hacking Web Servers Course
Tuesday	Hacking Web Servers	Quiz: Hacking Web Servers Course
Wednesday	Hacking Web Applications Part 1 and part 2	Lecture: Hacking Web Applications Part 1 and Part 2 Video: Hacking Web Applications Part 1 and Part 2 Labs: Hacking Web Applications Part 1 and part 2 Questions: Hacking Web Applications Part 1 and Part 2
Thursday	Hacking Web Applications Part 1 and Part 2	Quiz: Hacking Web Applications Part 1 and Part 2
Friday		Study, Assessment, or Exam
Week 11	SQL Injection	
Monday	SQL Injection	Lecture: SQL Injection Video: SQL Injection

Week	Topic	Required Reading/Assignments Etc.
		Labs: SQL Injection Questions: SQL Injection
Tuesday	SQL Injection	Quiz: SQL Injection
Wednesday	Hacking Wireless Networks Part 1 and Part 2	Lecture: Hacking Wireless Networks Part 1 and Part 2 Video: Hacking Wireless Networks Part 1 and Part 2 Labs: Hacking Wireless Networks Part 1 and Part 2 Questions: Hacking Wireless Networks Part 1 and Part 2
Thursday	Hacking Wireless Networks Part 1 and Part 2	Quiz: Hacking Wireless Networks Part 1 and Part 2
Friday		Study, Assessment, or Exam
Week 12	Hacking Wireless Networks Part 3	
Monday	Hacking Wireless Networks Part 3	Lecture: Hacking Wireless Networks Part 3 Video: Hacking Wireless Networks Part 3 Labs: Hacking Wireless Networks Part 3 Questions: Hacking Wireless Networks Part 3
Tuesday	Hacking Wireless Networks Part 3	Quiz: Hacking Wireless Networks Part 3
Wednesday	Hacking Mobile Platforms	Lecture: Hacking Mobile Platforms Video: Hacking Mobile Platforms Labs: Hacking Mobile Platforms Questions: Hacking Mobile Platforms
Thursday	Hacking Mobile Platforms	Quiz: Hacking Mobile Platforms
Friday		Study, Assessment, or Exam
Week 13	IDS, Firewalls and Honeypots	
Monday	Evading IDS, Firewalls, and Honeypots Part 1 and Part 2	Lecture: Evading IDS, Firewalls, and Honeypots Part 1 and Part 2 Video: Evading IDS, Firewalls, and Honeypots Part 1 and Part 2 Labs: Evading IDS, Firewalls, and Honeypots Part 1 and Part 2 Questions: Evading IDS, Firewalls, and Honeypots Part 1 and Part 2
Tuesday	Evading IDS, Firewalls, and	Quiz: Evading IDS, Firewalls, and Honeypots Part 1 and Part 2

Week	Topic	Required Reading/Assignments Etc.
	Honeypots Part 1 and Part 2	
Wednesday	Evading IDS, Firewalls, and Honeypots Part 3	Lecture: Evading IDS, Firewalls, and Honeypots Part 3 Video: Evading IDS, Firewalls, and Honeypots Part 3 Labs: Evading IDS, Firewalls, and Honeypots Part 3 Questions: Evading IDS, Firewalls, and Honeypots Part 3
Thursday	Evading IDS, Firewalls, and Honeypots Part 3	Quiz: Evading IDS, Firewalls, and Honeypots Part 3
Friday		Study, Assessment, or Exam
Week 14	Cloud Computing	
Monday	Cloud Computing Part 1 and Part 2	Lecture: Cloud Computing Part 1 and Part 2 Video: Cloud Computing Part 1 and Part 2 Labs: Cloud Computing Part 1 and Part 2 Questions: Cloud Computing Part 1 and Part 2
Tuesday	Cloud Computing Part 1 and Part 2	Quiz: Cloud Computing Part 1 and Part 2
Wednesday	Cloud Computing Part 3 and Part 4	Lecture: Cloud Computing Part 3 and Part 4 Video: Cloud Computing Part 3 and Part 4 Labs: Cloud Computing Part 3 and Part 4 Questions: Cloud Computing Part 3 and Part 4
Thursday	Cloud Computing Part 3 and Part 4	Quiz: Cloud Computing Part 3 and Part 4
Friday		Study, Assessment, or Exam
Week 15		Cryptography Part 2, Cryptography Part 3, Cryptography Part 4
Monday	Cryptography Part 1	Lecture: Cryptography Part 1 Video: Cryptography Part 1 Labs: Cryptography Part 1 Questions: Cryptography Part 1
Tuesday	Cryptography Part 1	Quiz: Cryptography Part 1

Week	Topic	Required Reading/Assignments Etc.
Wednesday	Cryptography Part 2	Lecture: Cryptography Part 2 Video: Cryptography Part 2 Labs: Cryptography Part 2 Questions: Cryptography Part 2
Thursday	Cryptography Part 2	Quiz: Cryptography Part 2
Friday		Study, Assessment, or Exam
Week 16	Cryptography	
Monday	Cryptography Part 3	Lecture: Cryptography Part 3 Video: Cryptography Part 3 Labs: Cryptography Part 3 Questions: Cryptography Part 3
Tuesday	Cryptography Part 3	Quiz: Cryptography Part 3
Wednesday	Cryptography Part 4	Lecture: Cryptography Part 4 Video: Cryptography Part 4 Labs: Cryptography Part 4 Questions: Cryptography Part 4
Thursday	Cryptography Part 4	Quiz: Cryptography Part 4
Friday		Study, Assessment, or Exam