

Spokane Falls Community College  
**COURSE LEARNING OUTCOMES AND OUTLINE**

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**Prefix and Course Number**  
**Course Title**

**CYBR 320**  
**Ethical Hacking**

**Last Modified: Fall 2017**

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### Course Learning Outcomes

**By the end of this course, a student should be able to:**

- Outline ethical considerations of hacking
- Outline legal considerations of hacking
- Assess an environment using footprinting
- Collect information using network scanning
- Identify methods to gain access to systems
- Analyze social engineering methods
- Explain common physical security weaknesses

### Course Outline

1. Legal Issues
  - 1.1 Fourth Amendment
  - 1.2 Computer Fraud and Abuse Act
  - 1.3 Electronic Communications Privacy Act
  - 1.4 Federal Wire Tap
2. Ethical Considerations
  - 2.1 Consent
    - 2.1.1 Exceeding scope and authority
  - 2.2 Hack back
  - 2.3 Snooping
  - 2.4 Disruption of service
  - 2.5 Intent versus authorization
3. Historical review of hacking
4. Footprinting and Reconnaissance
  - 4.1 Open gathering
  - 4.2 Passive gathering
  - 4.3 Internet gathering
  - 4.4 Social Engineering
5. Scanning
  - 5.1 Types of scans
  - 5.2 OS Fingerprinting
  - 5.3 Proxies
  - 5.4 Network Diagramming
6. Enumeration
  - 6.1 Windows user and system gathering
  - 6.2 Unix and Linux system gathering
7. System compromise
  - 7.1 Hacking

- 7.2 Authentication
- 7.3 Covering your tracks
- 7.4 Malicious software and covert connections
- 8. Network traffic sniffing
  - 8.1 Current tools
  - 8.2 Switched network attacks
- 9. Social Engineering
  - 9.1 Phases of an attack
  - 9.2 Common targets
  - 9.3 Common sources of information
- 10. Web Servers and applications
  - 10.1 Common attacks and flaws
  - 10.2 Current tools
- 11. Physical Security
  - 11.1 Simple controls
  - 11.2 Mobile access and concerns