



**BAKER COLLEGE
STUDENT LEARNING OUTCOMES**

**CSC 3310 CCNA Security
4 Semester Hours**

Student Learning Outcomes & Enabling Objectives

1. Acquire skills needed to configure, monitor, and troubleshoot network security by understand core security concepts and how to develop and implement security policies to mitigate risks.
 - a. Describe security threats facing modern network infrastructures
 - b. Secure Cisco routers and switches
 - c. Describe AAA functionalities and implement AAA on Cisco routers using local router database and server-based ACS or ISE
 - d. Mitigate threats to networks using ACLs and stateful firewalls
 - e. Implement IPS and IDS to secure networks against evolving attacks
 - f. Mitigate threats to email, web based and endpoints attacks and common Layer 2 attacks
 - g. Secure communications to ensure integrity, authenticity and confidentiality.
 - h. Describe the purpose of VPNs, and implement Remote Access and Site-to-Site VPNS.
 - i. Secure networks using ASA
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These SLOs are not approved for experiential credit.

Effective: Fall 2017