## INFORMATION TECHNOLOGY CYBERSECURITY - ASSOCIATE IN SCIENCE

Plan Code: 2105
This program combines systems administration fundamentals with the requisite security concepts and effective practices required to implement, administer, and harden operating systems.

## Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate the ability to install, configure, manage and troubleshoot a small office or home office network (wired or wireless).
- Demonstrate the ability to secure wired and wireless networks.
- Demonstrate the ability to install, configure and manage client and server operating systems.
- Demonstrate the ability to harden servers against intrusion.


## Program Requirements

This degree requires the completion of General Education coursework plus the following:

| Code Number | Course Title | Units |
| :--- | :--- | ---: |
| REQUIRED COURSES |  |  |
| COSN 5 | Computer Hardware Fundamentals | 4 |
| COSN 10 | Networking Fundamentals | 3 |
| COSN 205 | UNIX/LINUX Fundamentals | 4 |
| COSN 206 | Scripting Fundamentals | 3 |
| COSN 253 | Security in Amazon Web Services | 3 |
| COSS 71 | Network Security Fundamentals | 3 |
| COSS 272 | Computer Forensics and Investigation | 3 |
| COSS 273 | Ethical Hacking and Countermeasures | 4 |
| Required Subtotal |  | $\mathbf{2 7}$ |
| Complete one of the following ${ }^{1}$ | $19-39$ |  |

LBCC General Education (Plan A) (https://lbcc-
public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/ plan-a/)
CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/ academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/)
IGETC Pattern (Plan C) (https://lbcc-public.courseleaf.com/ academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/)
Electives (as needed to reach 60 degree-applicable units) ${ }^{2}$
Minimum Degree Total

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[^0]:    ${ }^{1}$ Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.
    2 Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units

