# SEC 285

# System Security Project

# Spring 2022

## Instructor Information

**Instructor:** Michael Smith  
**Email:** masmith@forsythtech.edu (preferred method of contact)

All emails MUST include a subject line. Emails without subject lines are likely to be ignored or automatically deleted. Subject lines MUST include the class and section number.

**Phone:** 336.757.3455  
**Office:** iTEC 411a

## **Student** Hours

|  |  |
| --- | --- |
| **Day(s) of the Week** | **Time** |
| Monday | **8-9:00 PM** |
| Tuesday | **11:30 AM – 2:00 PM** |
| Wednesday | **8-9:00 PM** |
| Thursday | **9 – 10:00 PM** |

## Class Meetings

| **Day(s)** | **Time** | **Location** |
| --- | --- | --- |
| Thursday | 6 – 8:50 PM | *i*Tec 422 |

## Last Day to complete Course Entry Assignment

Jan 20, 2022

## Last Day to Withdraw without Penalty

Mar 14, 2022

**Websites**  
[Link to Blackboard at Forsythtech](https://blackboard.forsythtech.edu/webapps/portal/execute/tabs/tabAction?tab_tab_group_id=_1_1)

[Link to Cisco Networking Academy](https://www.netacad.com/)

**Access Codes**

Any access codes will be distributed during the first class.

**Materials Required**

**Software Required**  
Packet Tracer, webbrowser

## Course Description

This course provides students the opportunity to apply the skills and competencies acquired in the program that focus on systems security. Emphasis is placed on security policy, process planning, procedure definition, business continuity, compliance, auditing, testing procedures and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation.

## Learning Objectives

The learning objectives are derived from the learning objectives of the security related courses required for this degree. These include, but are not necessarily limited to the following:

NOS 130 Support single users using Windows (system config/utilities)

NET 126 Design and implement appropriate ACLs

Configure VLANs and Inter-VLAN routing, applying security best practices

Configure WLANs using a WLC and L2 security best practices

Select, install and test appropriate security monitoring tools

SEC 110 Identify information security risks

Create an information security policy

Identify processes to implement and enforce policy

SEC 150 Recommend/create policies related to data integrity, encryption, VPN, SSL, SSH. IPSec

Implement secure data transmission technologies

SEC 160 Identify normal network traffic using network analysis tools

Design basic security defenses

CCT 231 Identify the elements of cybercrime activity

SEC 175 Secure internal networks using router, switch and firewall technologies

SEC 210 Plan and implement intrusion detection solution for networks and host based systems

CCT 250 Evaluate weaknesses of traditional and wireless network for the purpose of incident response, reconstruction, and forensic investigation

## Grading and Evaluation Methods

## Final grades are determined through a weighted average of the following:

|  |  |
| --- | --- |
| **Type** | **Distribution** |
| Documentation | 20% |
| Implementation | 25% |
| Scenario Evaluation | 20% |
| Presentation | 20% |
| Peer Evaluation | 5% |
| Professionalism | 10% |

## Forsyth Tech Grading Scale Tech Grading Scale

| **Letter Grade** | **Final Number Grade** |
| --- | --- |
| A | 90-100 |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | 59 and below |
| W | Withdraw before midterm. Does not affect GPA. |

## Assignment Submission, Late Work, and Extra Credit

## Assignment Submission

Refer to the **Tentative Agenda** for due dates.

Due dates and times are subject to change at the instructor’s discretion.

## Late Work Acceptance.

Late work is accepted at anytime.

However, while the instructor will make every reasonable effort to grade the assignments before the end of the semester, only assignments submitted on or before the actual due date are guaranteed to be graded. Ungraded assignments receive a score of 0 until they are graded.

Late assignments are graded at a time and pace of the instructor based on his or her’s other obligations.

## Extra Credit

No extra credit will be provided for this course.

## Attendance Policy

Seated Class: Students may miss no more than 5 hours of seated lecture or lab, collectively. If a student collectively misses more than 5 hours of lecture or lab, the student can be dropped from the class.

Online Class: Student may miss no more than 3 consecutive Labs & Assignments, or PowerPoints. If a student collectively misses more than 3, the student can be dropped from the class.

Exceptions may be made in extreme circumstances. The instructor holds sole rights to drop a student for a student’s failure to comply with this policy.

## Expected Course Schedule

For the complete list of assignments associated with each chapter, refer to the Assignment Agenda.

<http://www.forsythtech.edu/about-us/davis-itec-cyber-security-center/>  (Cyber Security Center)