Information Technology Security
(ITSY 1342 2A1)

INSTRUCTOR CONTACT INFORMATION
Instructor: Taylor Powell
Email: tetrahant@lit.edu
Office Phone: 409 247 5236
Office Location: Virtual Office
Office Hours: By Appointment

CREDIT
3 Semester Credit Hours (2 hours lecture, 4 hours lab)

MODE OF INSTRUCTION
Online

PREREQUISITE/CO-REQUISITE:
Completed the Online Orientation and answered Yes to 7+ questions on the Online Learner Self-Evaluation: https://www.lit.edu/online-learning/online-orientation.

COURSE DESCRIPTION
Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices. This course is time-bound, structured, and completed online.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to:
• Apply National Institute of Standards and Technology (NIST) guidelines and other best practices.
• Develop backup/recovery procedures to provide for data security.
• Use desktop/device operating system features to implement security.
• Identify computer and network threats and vulnerabilities and methods to prevent their effects
• Use tools to enhance network security
• Use encryption techniques to protect network local and distributed systems data.

REQUIRED TEXTBOOK AND MATERIALS
ISBN: 9780357424377

ATTENDANCE POLICY
This is a fully online class. You are expected to log into BlackBoard 3 to 4 times a week to check for updates and announcements.
**DROP POLICY**
If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

**COURSE CALENDAR (Subject to Change)**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>READINGS</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1 1/16-1/21</td>
<td>Introduction/Syllabus</td>
<td>None</td>
<td>1/21/2024</td>
</tr>
<tr>
<td>Week 3 1/28-2/4</td>
<td>Cybersecurity Resources/ Threats and Attacks on Endpoints</td>
<td>Module 2-3 Pages 33-94</td>
<td>2/4/2024</td>
</tr>
<tr>
<td>Week 4 2/4-2/11</td>
<td>Endpoint and Application Development Security</td>
<td>Module 4 Pages 95-126</td>
<td>2/11/2024</td>
</tr>
<tr>
<td>Week 5 2/11-2/18</td>
<td>Mobile, Embedded, and Specialized Device Security</td>
<td>Module 5 Pages 127-154</td>
<td>2/18/2024</td>
</tr>
<tr>
<td>Week 6 2/18-2/25</td>
<td>Basic Cryptography</td>
<td>Module 6 Pages 157-190</td>
<td>2/25/2024</td>
</tr>
<tr>
<td>Week 7 2/25-3/3</td>
<td>Public Key Infrastructure and Cryptographic Protocols</td>
<td>Module 7 Pages 191-222</td>
<td>3/3/2024</td>
</tr>
<tr>
<td>Week 8 3/3-3/10</td>
<td>Networking Threats, Assessments, and Defenses</td>
<td>Module 8 Pages 225-254</td>
<td>3/10/2024</td>
</tr>
<tr>
<td>Week 12 4/7-4/14</td>
<td>Authentication</td>
<td>Module 12 Pages 353-388</td>
<td>4/14/2024</td>
</tr>
<tr>
<td>Week 13 4/14-4/21</td>
<td>Incident Preparation, Response, and Investigation</td>
<td>Module 13 Pages 389-422</td>
<td>4/21/2024</td>
</tr>
<tr>
<td>Week 16 5/5-5/9</td>
<td>Final Exam</td>
<td>BlackBoard</td>
<td>5/9/2024</td>
</tr>
</tbody>
</table>
COURSE EVALUATION
Final grades will be calculated according to the following criteria:
- Chapter Quizzes 15%
- Labs 20%
- Assignments 15%
- Tests 25%
- Final Exam 25%

GRADE SCALE
- 90-100 A
- 80-89 B
- 75-79 C
- 70-74 D
- 0-69 F

ACADEMIC DISHONESTY
Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution’s Academic Dishonesty Policy available in the Student Catalog & Handbook accessible on the LIT website.

TECHNICAL REQUIREMENTS
The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT
The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).
STUDENT CODE OF CONDUCT STATEMENT
It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand, and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu. Please note that the online version of the LIT Catalog and Student Handbook supersedes all other versions of the same document.

STARFISH
LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION
1. All assignment due dates are indicated in the Blackboard course for this class. Any work submitted after the assigned due date will receive a 10 point per week deduction.
2. Tests are assigned a due date and must be completed by that date. Tests will not be reactivated after the due date.
3. All tests will require lockdown browser. Please see “Test Browser” in the introduction section of the Blackboard course.
4. All written assignments should be submitted in APA format. Refer to the “APA Format Assistance” section in the introduction section of the Blackboard course.
5. All assignments must be submitted via Blackboard unless specified by your instructor. Assignments submitted through any other method will receive a “0”.
6. Grades for assignments may be accessed through My Grades in Blackboard. Each assignment shows your grade and any grading comments made on your assignment.
7. All assignments must be turned in before the final exam.

COMMUNICATING WITH YOUR INSTRUCTOR
- Email is the preferred method for contacting the instructor.
- You must email from your LIT student email account when contacting the instructor.
- You must include the course number (ITSY 1342) and section number (section 2A1).
- Please allow 24 hours during the week and 48 hours on the weekend for a response.

Certification Requirement
Cyber Security and Networking majors are required to earn certification in one of the following areas prior to graduation.
- A+ Certification
- Network+ Certification
- Security+ Certification
- Linux+ Certification
- Cisco Certified Network Associate (CCNA)