

**Nashville State Community College**  
**Computer and Engineering Technologies Division**  
**Computer Technology**

**Master Course Syllabus**

**CPT 2490 Infrastructure Security**

**3 Credits**

**3 Class Hours**

An examination of security from an internal perspective. Focuses on infrastructure security policies, patching, upgrading systems, cryptography, and hardening operating systems.

**Prerequisite: CPT 2425**

**Instructor Information:**

Name:

Email:

Office Phone:

Office Location:

Office Hours:

**Textbook and Other Materials:**

Textbook: *Principles of Information Security*  
ISBN 978-1-285-44836-7

Reference Materials: Internet references

Supplies: None

**Course Outcomes:**

Upon successful completion of this course, students should be able to:

- Perform risk analysis.
- Create security policies.
- Understand Penetration Testing Techniques.
- Analyze Packet Structures.
- Understand Cryptography.
- Create Internet and Web security.
- Understand Hardening Linux systems.
- Be familiar with Windows Server Security Fundamentals.

**Course Assessments:**

The following performance assessments will be used to demonstrate students' understanding, knowledge and skills:

- Four Tests – 15% each
- Assignments –hands-on labs, homework, or written tasks – 40%

## **Course Competencies:**

- Perform an information security analysis
- Design a risk analysis policy
- Identify threats and vulnerabilities
- Identify and classify assets
- Implement an information security plan

## **Topics to Be Covered:**

- Legal, ethical, and professional issues
- Planning for security
- Risk management
- Security technology
- Cryptography
- Physical Security
- Security and personnel
- Information security maintenance

## **Grading Policy**

Final grade will be based on a combination of Homework, Quizzes, Tests and Attendance. Tests will carry double weight.

## **Grading Scale:**

Grades will be determined as follows:

Grade Average Points

A	89.5 - 100.0
B	79.5 - 89.4
C	69.5 - 79.4
D	59.5 - 69.4

## **Attendance Policy**

A student is expected to attend all scheduled classes and laboratories. Each instructor will formulate an attendance policy and provide it on the course syllabus. Absences are counted from the first scheduled meeting of the class, and it is the responsibility of each student to know the attendance policy of each instructor in whose class he/she is enrolled. If a student is absent from a class, he/she should give an advanced explanation to the instructor. Absences in a course may affect a student's final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student's final grade.

Failure to attend class will result in a final course grade of "FA" or "FN" (see explanation below) depending on the individual instructor's course policy.

FA= failure, attendance-related (unofficial withdrawal) Last recorded date of attendance required.

FN= failure, never attended class (unofficial withdrawal)

## **Student Communication Channels**

It is the student's responsibility to check D2L and MyNSCC email on a regular basis. These are the official communication channels between the college and students. Students are responsible for the information communicated through those channels. D2L contains specific course information and MyNSCC contains information important for other purposes.

## **Early Warning System**

Nashville State Community College has implemented an Early Warning System to notify students via e-mail about academic problems such as poor classroom attendance, poor performance on assignments/tests, poor communication skills, late/missing assignments, and/or lack of classroom participation. Please note that Early Warning Alerts do not affect a student's academic standing.

## **ADA Compliance Statement**

Nashville State complies with the Americans with Disabilities Act. Please contact the Access Services Coordinators at 615-353-3721 or 615-353-3741 if you would like to arrange ADA accommodations..

## **Classroom Misconduct**

Nashville State Community College has a zero tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary sanctions. Please consult your Student Handbook for more specific details.

The instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or in conduct which violates the general rules and regulations of the College.

Disruptive behavior in the classroom may be defined as, but is not limited to, behavior that obstructs or disrupts the learning environment (e.g., offensive language, harassment of students and professors, repeated outbursts from a student which disrupt the flow of instruction or prevent concentration on the subject taught, failure to cooperate in maintaining classroom decorum, etc.), the continued use of any electronic or other noise or light emitting device which disturbs others (e.g., disturbing noises from beepers, cell phones, palm pilots, lap-top computers, games, etc.).

Please be aware that children are not allowed in class or unattended on campus.

## **Academic Dishonesty (Honor Code)**

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. "Plagiarism may result from: (1) failing to cite quotations and borrowed ideas, (2) failing to enclose borrowed language in quotation marks, and (3) failing to put summaries and paraphrases in your own words (A Writer's Reference 331). Academic dishonesty may be defined as, but is not limited to, intentionally trying to deceive by claiming credit for the work of another person, using information from a web page or source without citing the reference, fraudulently using someone else's work on an exam, paper, or assignment, recycling your own work from another course, purchasing papers or materials from another source and presenting them as your own, attempting to obtain exams/materials/assignments in advance of the date of administration by the instructor, impersonating someone else in a testing situation, providing confidential test information to someone else, submitting the same assignment in two different

classes without requesting both instructor's permission, allowing someone else to copy or use your work, using someone else's work to complete your own, altering documents, transcripts or grades, and forging a faculty/staff member's signature.

In addition to other possible disciplinary sanctions that may be imposed through regular college procedures as a result of academic dishonesty the instructor has the authority to assign an "F" or a "Zero" for the exercise, paper, or examination or to assign an "F" for the course. Students may appeal through the appropriate college grade appeal procedures.

### **Inclement Weather Policy**

In the event of an inclement weather event, check the Nashville State web site home page at [www.nsc.edu](http://www.nsc.edu) for announcements on campus closures. Campus closures will also be announced on local television stations (channels 2, 4, 5, and 17).

When classes are cancelled, an online assignment will be posted in NS Online. Check your NS Online email for a message from your instructor regarding your online assignment requirements. Even though classes may be cancelled, some areas, i.e. Testing Center, may be open.

However, you should check before commuting to campus.

The Vice President for Academic Affairs and the Director of Security are responsible for cancellation decisions during an inclement weather event for the Nashville State main campus and the Southeast campus. Cookeville, Waverly, and Dickson Campus Directors will make class cancellation decisions based on conditions in their respective areas. Decisions about class cancellations are based on actual conditions, not forecasts. The perspective used for making decisions is that of the college as an employer, not as a K-12 institution. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

**NOTE:** This syllabus is meant simply as a guide and overview of the course. Some items are subject to change or may be revised at the instructor's discretion. Each instructor will further clarify their criteria for grading, classroom procedures, attendance, exams and dates, etc. on his/her course syllabus.