

**COURSE SYLLABUS**  
**COLLEGE OF BUSINESS AND TECHNOLOGY**  
**SPRING SEMESTER, 2024**



**ITE 449-01**

**Infrastructure Security**

**INSTRUCTOR:** James A. Jerkins, Ph.D., CISSP

**OFFICE HOURS:** M: 2:45 - 3:45  
MW: 10:00 - 11:00  
H: 1:00 - 3:00  
or by appointment

**OFFICE LOCATION:** Keller Hall 242

**OFFICE TELEPHONE:** 256-765-5036

**EMAIL:**

Do **NOT** send messages via Canvas, send to [jajerkins@una.edu](mailto:jajerkins@una.edu) from your UNA email account.

**FAX:** 256-765-4811

**COURSE HOMEPAGE:** <https://buildingthepride.com/faculty/jajerkins/>

**CLASS LOCATION:** Raburn 220

**COURSE TIME:** MW 12:00 - 1:15

**COURSE DESCRIPTION:** Examines the issues related to infrastructure security. Topics include network security threats, network authentication and identification, network security protocols, firewalls, intrusion detection systems, wireless security, email security, network and cloud-based application security, and network storage security.

**SECTION NUMBER:** 01 (CRN 25742)

**CREDIT HOURS:** 3

**PREREQUISITE:** ITE 249 -AND- CIS 344 -OR- CS 360

**COURSE DELIVERY METHOD:** Traditional classroom

**COURSE OBJECTIVES:**

1. apply security principles and practices to design secure infrastructures
2. apply security principles and practices to implement secure infrastructures
3. apply security principles and practices to maintain operations in the presence of risks and threats

**TOPICS COVERED:**

1. Critical infrastructure security threats, vulnerabilities, and risks
2. Critical Infrastructure Key Resources (CIKR)
3. Methods for protecting infrastructure and providing system redundancy

**COURSE EVALUATION PROCESS (Grade Components):**

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Homework, labs, programs, and presentations	35% of course grade
Exams and quizzes	35% of course grade
Comprehensive final exam/project	30% of course grade

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Letter grades will be assigned based on the University scale.

**REQUIRED TEXTBOOK, SOFTWARE, AND SUPPLIES:**

Security Strategies in Windows Platforms and Applications, Michael G. Solomon, 3rd Edition, ISBN: 9781284175622  
Cloud Labs for Windows, ISBN: 9781284080100,  
UNA Mane card with funds, Internet access, active UNA email account

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## **COMMUNICATION POLICY - UNIVERSITY POLICY**

The official method of communication at UNA is UNA portal, with emphasis placed on University email. You may access your UNA Portal email through the University's homepage. The link to Portal is at the top of the page. It is important for students to read their UNA Portal e-mail on a regular basis for information regarding University deadlines, policies, and events. These messages are outside your Canvas courses and relate to ALL University communication. Please understand the importance of each communication vehicle and the distinction between the two.

## **IMPORTANT TECHNICAL SUPPORT CONTACT INFORMATION - UNIVERSITY POLICY:**

### Login Issues

If you cannot log-in to Canvas or your UNA Portal account, please e-mail UNA Information Technology Services at [helpdesk@una.edu](mailto:helpdesk@una.edu) to request assistance. Be sure to include your full name, UNA email address, an alternative e-mail address (if applicable) and a phone number. Additional information for UNAPortal can be found in the online Troubleshooting and FAQ.

### Canvas Issues

If you have questions about using Canvas, please visit the Canvas Support for Students page. If Canvas misbehaves, please use the HELP(?) icon on the navigation menu in Canvas and click Report a Problem to submit a technical support ticket to our Canvas support team.

### Honorlock Issues

Any time you need assistance with Honorlock, click the Honorlock LiveChat icon to speak to a live person from the Honorlock tech support team.

## **INFORMATION TECHNOLOGY ACCEPTABLE USE - UNIVERSITY POLICY:**

UNA Technology policies and Usage statements may be found on the UNA Information Technology Services Policies/Usage Statements page (<https://www.una.edu/its/campus-technology/Policies.html>).

## **ACADEMIC AND INSTITUTIONAL SUPPORT SERVICES - UNIVERSITY POLICY**

The University of North Alabama is committed to providing students with a supportive and inclusive learning environment that promotes student success. Many offices and centers are available to students on campus and online:

- University Success Center provides tutoring and houses the Center for Writing Excellence, Math Learning Center, and Advising Services.
- Student Counseling Services is available to provide students with a safe and

confidential space to discuss mental health and well-being needs.

- The University Case Manager assists students in overcoming barriers to success (including lack of food through The Pantry and financial concerns through Caring for the Pride).
- The Division of Diversity, Equity, and Inclusion, the Mitchell-West Center for Social Inclusion are committed to promoting diversity, equity, and inclusion for all students on UNA's campus

## **ACADEMIC HONESTY - UNIVERSITY POLICY:**

Students of the university academic community are expected to adhere to commonly accepted standards of academic honesty. Allegations of academic dishonesty can reflect poorly on the scholarly reputation of the University including students, faculty and graduates. Individuals who elect to commit acts of academic dishonesty such as cheating, plagiarism, or misrepresentation will be subject to appropriate disciplinary action in accordance with university policy.

Incidents of possible student academic dishonesty will be addressed in accordance with the following guidelines:

1. The instructor is responsible for investigating and documenting any incident of alleged academic dishonesty that occurs under the instructor's purview.
2. If the instructor finds the allegation of academic dishonesty to have merit, then the instructor, after a documented conference with the student, will develop a plan for disciplinary action. If the student agrees to this plan, then both instructor and student will sign the agreement. The faculty member will forward a copy of the signed agreement to the Office of Student Conduct for record-keeping purposes.
3. If the student disagrees with the instructor's proposed plan for disciplinary action and wishes to take further action, he/she is responsible for scheduling a meeting with the chair of the department where the course is housed to appeal the proposed disciplinary plan. The department chair shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the departmental level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the dean of the college where the course is housed to appeal the proposed disciplinary plan. The college dean shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the college level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the Vice President for Academic Affairs and Provost (VPAA/P) to appeal the proposed disciplinary plan. The VPAA/P shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. After reviewing all

documentation, the VPAA/P may, at his/her discretion, choose either to affirm the proposed action, to refer the case to the Office of Student Conduct for further review, or to dismiss the matter depending on the merits of the case. The final disposition of the case will be disseminated to appropriate parties, including the Office of Student Conduct.

4. If a student is allowed academic progression but demonstrates a repeated pattern of academic dishonesty, the VPAA/P may, after consultation with the Office of Student Conduct, assign additional penalties to the student, including removal from the University.

### **UNIVERSITY AND COURSE WITHDRAWAL - UNIVERSITY POLICY:**

Students may withdraw from a class online through their Portal Self-Service Registration account. Under Registration - Add/Drop Courses, select "Web Withdraw" in the Action drop down for the class. Then, click Submit.

Students will have a percentage (75%) of the semester to withdraw from courses with a "W" grade. Refer to the University Academic Calendar for withdrawal dates for each term. After that deadline, "W" grades will only be approved for extenuating circumstances as we are giving additional time for students to withdraw just with a "W" grade. If the student encounters an extenuating circumstance, they are required to email the faculty of each course they need to withdraw and ask for this consideration. This will then need approval from the department chair or Dean before it can be processed by the Office of the Registrar. The Registrar's Office will notify the Office of International Affairs for any international student wishing to withdraw from a class.

Withdrawing from a course before the deadline will not affect a student's GPA or academic standing. A notation of W is made on the student's transcript. Students are strongly advised not to withdraw from courses unless absolutely necessary.

- Students receiving Financial Aid should check with Student Financial Services before withdrawing from classes. Student progress toward degree completion is checked every semester for students receiving federal grants and loans. Students must pass and completed 75% of all work attempted to maintain financial aid.
- Student Athletes should check with the Athletic Department as course withdrawal could affect eligibility for competition.

### **DISABILITY ACCOMODATIONS - UNIVERSITY POLICY:**

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documented learning, physical and/or psychological disabilities. Under Title II of the Americans with Disabilities Act (ADA) of 1990, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Amendment Act of 2008, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities as compared to an average person in the population. It is the responsibility of the student to contact Disability Support Services to initiate the

process to develop an accommodation plan. This accommodation plan will not be applied retroactively. Appropriate, reasonable accommodations will be made to allow each student to meet course requirements, but no fundamental or substantial alteration of academic standards will be made. Students needing assistance should contact Disability Support Services (256-765-4214).

### **TITLE IX - UNIVERSITY POLICY:**

The University of North Alabama has an expectation of mutual respect. Students, staff, administrators, and faculty are entitled to a working environment and educational environment free of discriminatory harassment. This includes sexual violence, sexual harassment, domestic and intimate partner violence, stalking, gender-based discrimination, discrimination against pregnant and parenting students, and gender-based bullying and hazing.

**Faculty and staff are required to report any observations of harassment (including online harassment) as well as any notice given by students or colleagues of any of the behaviors noted above.** Retaliation against any person who reports discrimination or harassment is also prohibited. UNA's policies and regulations covering sex- and gender-based discrimination and harassment may be accessed at [www.una.edu/titleix](http://www.una.edu/titleix). If you have experienced or observed sex- or gender-based discrimination or harassment, you can contact one of the confidential resources available at [www.una.edu/titleix](http://www.una.edu/titleix). On that website, you also have the option to make a report to the Title IX Coordinator. You may also report directly to the Title IX Coordinator at 256-765-4223 or by emailing [titleix@una.edu](mailto:titleix@una.edu).

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#### Confidential Reporting

If a reporting party would like the details of an incident to be kept confidential, the reporting party may speak with:

Student Counseling Services 256-765-5215  
University Health Services 256-765-4328  
Center for Women's Studies 256-765-4380  
Center for Social Inclusion 256-765-5158

#### Reporting to Title IX

Reports under the University's Sexual Misconduct Policy may be made directly to the Title IX Coordinator by phone, email, in-person, through the mail, or online. A report to the Title IX Coordinator does not automatically initiate an investigation. Contact information for the Title IX Coordinator is:

Title IX Coordinator and Compliance Administrator  
[titleix@una.edu](mailto:titleix@una.edu)  
202 Guillot University Center  
UNA Box 5023 Florence, AL 35632

(256) 765-4223

Reports can also be made online by visiting [www.una.edu/titleix](http://www.una.edu/titleix)

**DIVERSITY STATEMENT**

The concept of diversity encompasses acceptance and respect. It means understanding that each individual is unique and recognizing our individual differences. These can be along the dimensions of race, ethnicity, gender, sexual orientation, socio-economic status, age, physical abilities, religious beliefs, political beliefs, or other ideologies. It is the exploration of these differences in a safe, positive, and nurturing environment. It is about understanding each other and moving beyond simple tolerance to embracing and celebrating the rich dimensions of diversity contained within each individual.

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## Course Policies - ITE 449-01

### **Attendance policy:**

Regular and punctual attendance at all scheduled classes and activities is expected and is integral to successful completion of the course. You may not receive credit for this course if you miss more than the equivalent of four weeks of classes (12 MWF, 8 TH, or 4 MTWH). Excessive absences or arriving late frequently may result in a reduction of your final grade as follows:

- More than 1 week equivalent absences or tardiness - Reduction of 1 letter grade
- More than 2 weeks equivalent absences or tardiness - Reduction of 2 letter grades
- More than 3 weeks equivalent absences or tardiness - Reduction of 3 letter grades
- More than 4 weeks equivalent absences or tardiness - Failure of course

### **Makeup policy:**

#### *Exams:*

You must inform your instructor prior to an exam if you have a valid reason to miss (even if your absence is announced by a University official). If the instructor determines that you have a valid excuse for missing the exam, a makeup exam will be scheduled within one week of the missed exam. You may be required to provide written proof for your excuse (for example a doctors note). If you do not contact your instructor within one week of the missed exam, your absence will be recorded as unexcused and you will receive a zero for the exam.

#### *Homework, labs, quizzes, programs, and presentations:*

No makeups will be offered for the lab/homework/quiz/program/presentation portion of your grade.

### **General policies and procedures:**

Come to class on time. Arriving late and/or leaving early are both disruptive to your fellow students and to the instructor. Be considerate of your fellow students and your instructor.

Silence all cell phones, pagers, electronic/watch alarms, tablets, laptop computer sounds, etc. These are extremely disruptive and rude.



### **Assignments:**

Unless explicitly directed otherwise, assignments are to be done by yourself, though you may use any resources such as class notes, web pages, etc. The source of all your information **MUST** be explicitly identified in the work you turn in, unless it is from the class notes. You will be graded on the accuracy, completeness, and clarity of your answers. The *course collaboration policy* on the class web page is the definitive document describing what type of collaboration is permissible and how you denote collaborative work.

All assignments are due at the beginning of class on the assigned due date unless otherwise specified. I will deduct at least 10% for assignments turned in one class period late. No credit may be earned for assignments more than one class period late without prior approval from the instructor.

If you feel there is an error in the grading of your assignments, you must bring it to the instructor's attention within one week after the assignment was graded and returned.

### **Use of electronic devices during exams:**

At no time during an examination are you allowed to have accessible a cell phone, camera, recorder, tablet, calculator, music player, personal computer or any other device that could be used to record/playback/display course content or communicate with any person or network. Exceptions must be specifically granted by the instructor in advance. I reserve the right to enforce this rule as necessary. Protect yourself by placing all these things completely out of the way, or leaving them somewhere else during an exam.

### **Extra credit:**

I do **not** give individual extra credit assignments or have a student resubmit work for additional points. I believe that it is unfair to other students who have already done well in the same assignments. In rare cases, I may offer an extra credit assignment to the entire class. I sometimes recommend that a student re-work their assignment for their own benefit, and I may be willing to offer them comments and suggestions that may improve future grades.

### **Communication:**

I will use the primary email address that is stored with your student record on UNAPortal. You are expected to check this email frequently as part of this (and all) courses at UNA. You may send me email from any other email address you want, but you are responsible for reading email that is sent to your UNAPortal account.

Students may contact me by email (preferred), by telephone at the phone number shown above, or by individual meetings. Email messages should have the course number (e.g., ITE 449-01) in the subject line. I normally respond to email several times a day. In general, office hours are available for "drop-in" meetings; however, there may be scheduled appointments during office hours.

Do **NOT** use Canvas messages to contact me, use the email address listed on page #1.

**Course web site and materials:**

<http://buildingthepride.com/faculty/jajerkins/>

Course materials and information will be made available to the class in one or more of the following ways:

- On the course web page  
(PDF documents require a free PDF reader such as Acrobat Reader).
- Announcement during class meetings
- Email (see previous section)
- Departmental/class/lab server

**Student responsibility:**

You are responsible for all material covered in class. If you are going to miss a class, inform the instructor at least one week in advance and arrange for a classmate to take notes for you. It may be a good idea to arrange in advance for a “buddy” who will take notes in case you are absent without advance notice.

It is important for your instructor to be able to evaluate your performance in this course fairly and accurately. It is always expected that you will do your own work on all individual examinations, while neither receiving from nor giving assistance to others. It is also expected that on homework or other assignments, you will submit only your own work, except for external sources (properly referenced and cited) if explicitly permitted. See the class web page for the course collaboration policy and the UNA Student Handbook (particularly the Code of Student Conduct) for policies relating to students rights, responsibilities and academic behavior. Please ask your instructor if you have questions or concerns about any of these policies or procedures. You are responsible for meeting these expectations, whether you have read them or not (so read them).