CSCI 5185 - INTERNSHIP with ETECH

INSTRUCTOR NAME & INTERNSHIP DIRECTOR:
Dr. Jeremy Becnel

EMAIL: becneljj@sfasu.edu             PHONE: 936-468-2508
OFFICE: STEM 312                  DEPARTMENT: Computer Science

TERM LENGTH: June 3, 2024 – August 7, 2024      CREDIT HOURS: 3

INTERNSHIP PERIOD: June 3, 2024 – August 7, 2024

INTERNSHIP LOCATION: ETECH, 1903 Berry Dr. Nacogdoches, TX, 75964

INTERNSHIP SUPERVISOR:
Dr. Veronica H. Chimney, veronica.chimney@etechtexas.com

PREREQUISITES: Graduate student in good standing in the Department of Computer Science, overall grade point average of 3.0 or higher, completion of 12 hours of graduate work in computer science, and consent of the graduate coordinator or CSCI 5185 course supervisor.

LIMITATIONS: May be repeated for a total of three hours of credit. No more than 3 hours of internship may count toward a graduate degree in Cyber Security in the Department of Computer Science. May be used to replace the capstone requirement of the graduate degree in Cyber Security. **Pass or Fail.**

CATALOG DESCRIPTION
Supervised on-the-job training in one or more facets of the field of cyber security. May be repeated to a total of three hours of credit. Pass or Fail. No more than 3 hours of internship may count toward a graduate degree in Cyber Security in the Department of Computer Science.

PURPOSE OF COURSE
To encourage graduate students in the Cyber Security graduate program to obtain employment, and therefore experience, in cyber security while working toward their graduate degree, thereby improving their learning experiences and capabilities for performing as cyber security professionals.

COURSE CALENDAR
This is not a classroom course, but an experiential course in partnership with the employer and the Department of Computer Science. Students will report for work on an average of 10 hours per week throughout the duration of the internship.
EDUCATIONAL OBJECTIVES

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

1. Engage in supervised on-the-job training in one or more facets of the field of computer science.

2. Interact with full-time computing professionals at managerial, journeyman, and entry levels, in the employer's environment.

3. Establish a professional relationship with the employer that may lead to a full-time professional position.

4. Receive supervisor appraisal of performance that becomes a part of the official record of the internship course completion; a form for this purpose is provided to the employing supervisor.

5. At the end of the internship period, develop a written report describing the duties performed, learning experiences, hours worked, and suggestions for improving the handling of the course.

STUDENT RESPONSIBILITIES

1. Completion of the Internship Application. Notice of approval should be received from the Internship Director, within two weeks of your submission of the application. If approved, you will be provided permission and invited to enroll in the course.

2. Perform duties of the position as required by ETECH:
   a. **General Description:** This internship is an opportunity to gain practical knowledge in cyber security through the analysis of training tools, protecting company assets, and other duties related to cyber security.
   b. **Job Duties:**
      i. Assisting in Security Monitoring: This involves monitoring security systems and tools for potential threats, anomalies, or security breaches. You may be responsible for reviewing logs, alerts, and reports to identify suspicious activities.
      ii. Vulnerability Management: Helping to identify, assess, and prioritize vulnerabilities in systems and networks. This might involve conducting vulnerability scans, analyzing results, and assisting in the remediation process.
      iii. Incident Response Support: Assisting with incident response activities in the event of a security incident or breach. This could include helping to contain, investigate, and mitigate security incidents under the guidance of senior security professionals.
      iv. Security Awareness Training: Supporting security awareness initiatives by creating or updating training materials, conducting security awareness sessions, and promoting best practices among employees.
      v. Policy and Procedure Development: Assisting in the development, review, and documentation of security policies, procedures, and guidelines to ensure compliance with industry standards and regulations.
      vi. Security Tools Evaluation and Testing: Assisting in the evaluation, testing, and deployment of security tools and technologies such as firewalls, intrusion detection systems, and endpoint protection solutions.
      vii. Security Research and Analysis: Conducting research on emerging threats,
vulnerabilities, and security trends to help improve the organization's security posture. This may involve analyzing security advisories, threat intelligence feeds, and industry reports.

viii. Documentation and Reporting: Documenting security processes, procedures, and findings. This could include preparing reports, presentations, and documentation for internal stakeholders or regulatory compliance purposes.

ix. Collaboration and Communication: Collaborating with cross-functional teams, including IT, development, and business units, to address security concerns and requirements.

x. Professional Development: Taking the initiative to learn and stay updated on the latest trends, tools, and techniques in cybersecurity through training, certifications, and self-study.

3. Attend two group meetings during the term length as announced by the internship director. Communication with enrolled students of all internships will be conducted through Discord, Microsoft Teams, or through SFA email. Brightspace will not be used for the Internship.

4. A report describing the duties performed, learning experiences, total hours worked, and suggestions for improving the overall experience for future students will be submitted to the Internship Coordinator. This will be facilitated through a Microsoft Form.

5. A professional resume that documents the internship experience is to be delivered by September 1, 2024. The resume shall be given to both the Internship Supervisor and Coordinator for review.

6. Creation or update of your LinkedIn profile documenting the internship experience.

7. At the conclusion of the internship, obtain a supervisor appraisal of performance. A form for this purpose will be provided directly to your supervisor.

A passing grade of P will be earned for a student who completes all the above responsibilities.

A grade of F will disqualify the student from further enrollment in the course.

INTERNship DIRECTOR (FACULTY MEMBER) RESPONSIBILITIES

1. Counsel with students when necessary.

2. Meet with internship students, as a group, two times throughout the duration of the internship.

3. Coordinate any additional activities with employer and students within the course.

4. Assign course grade, Pass or Fail, based on employer performance appraisal, work log reports, and student's final report.
Drop Policy (Univ.):

The official university add/drop policy is located at [https://www.sfasu.edu/docs/hops/04-103.pdf](https://www.sfasu.edu/docs/hops/04-103.pdf). If you have questions concerning registration, add/drop, or the withdrawal process, please refer to the Registrar’s website.

Special Accommodation Requests:

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services promptly may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).

Students with special accommodation requests have the responsibility to immediately initiate a meeting with the instructor to discuss how the special accommodations will be provided. Students who are aware of these special needs at the beginning of the semester must inform the instructor in person before the twelfth class day about any class activity, which will require special accommodations.

Academic Integrity

The [Code of Student Conduct and Academic Integrity](https://www.sfasu.edu/docs/hops/04-103.pdf) outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

Withheld Grades Semester Grades Policy

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the coursework because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average.
Students with Disabilities

To obtain disability-related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services promptly may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Student Wellness and Well-Being

SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:

The Dean of Students Office (Rusk Building, 3rd floor lobby)
www.sfasu.edu/deanofstudents
936.468.7249
dos@sfasu.edu

SFA Human Services Counseling Clinic Human Services, Room 202
www.sfasu.edu/humanservices/139.asp
936.468.1041

The Health and Wellness Hub “The Hub”
Location: corner of E. College and Raguet St.

To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

- Health Services
- Counseling Services
- Student Outreach and Support
- Food Pantry
- Wellness Coaching
- Alcohol and Other Drug Education

www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:

- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: 9-8-8
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- johCrisis Text Line: Text HELLO to 741-741