

Course Change Request

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Course Inactivation Proposal

Date Submitted: 07/12/18 8:19 am

Viewing: **FIVS 310 : Applied Digital Forensics and Incident Response**

Last approved: 04/21/18 3:20 am

Last edit: 07/12/18 8:19 am

Changes proposed by: rhapes

Catalog Pages referencing this course
[Department of Entomology](#)
[FIVS - Forensic & Inv Science \(FIVS\)](#)

Programs referencing this course
[MINOR-CYBR: Cybersecurity - Minor](#)

Contact(s)

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Course prefix FIVS Course number 310

Department Entomology

College/School Agriculture & Life Sciences

Academic Level Undergraduate

Undergraduate course level justification (Select One)
 Prerequisites

All prerequisites will be enforced through COMPASS.

Effective term **2019-2020** ~~2018-2019~~

Complete Course Title
 Applied Digital Forensics and Incident Response

Abbreviated Course Title
 APP DGTAL FORENSIC INCDT RESP

Catalog course description

Development of sterile virtual lab environments; collection of digital evidence; digital evidence analytics; analysis of log data; analysis and reversing of malware; recover damaged digital evidence; write technical reports on malware and incidents; legal and ethical components of digital forensic science.

Prerequisites and Restrictions

FIVS 205 with a grade of C or better; junior or senior classification or approval of instructor.

Should catalog prerequisites / concurrent enrollment be enforced? Yes

In Workflow

1. ENTO Department Head
2. Curricular Services Review
3. AG Committee Preparer UG
4. AG Committee Chair UG
5. AG College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services
13. Banner

Approval Path

1. 07/12/18 9:38 am
Pete Teel (pteel):
Approved for ENTO Department Head
2. 07/13/18 4:24 pm
Terra Bissett (t.bissett):
Approved for Curricular Services Review
3. 07/13/18 4:26 pm
Dawn Kerstetter (dkerstetter): Approved for AG Committee Preparer UG
4. 08/06/18 10:42 am
Bob Knight (bob-knight): Approved for AG Committee Chair UG
5. 08/06/18 10:46 am
Dawn Kerstetter (dkerstetter): Approved for AG College Dean UG
6. 08/07/18 11:52 am
Sandra Williams (sandra-williams):
Approved for UCC Preparer
7. 08/09/18 3:27 pm
Sandra Williams (sandra-williams):
Approved for UCC Chair

History

Enforced Prerequisites / Concurrent Enrollment

And/Or	(Course Prefix/Number	Min Grade/Score	Academic Level)	Concurrency?
		FIVS 205	C	UG		

Crosslistings No Crosslisted With

Stacked No Stacked with

Semester 3 Contact Hour(s) Lecture: 2 Lab: 2 Other: 0 Total 4
 Credit (per week):
 Hour(s)

Repeatable for credit? No

CIP/Fund Code 4301060002

Default Grade Mode Letter Grade (G)

Method of instruction Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Program(s)
(BS-FIVS-LWE) Forensic and Investigative Sciences - BS, Pre-Law Emphasis
(BS-FIVS-SCE) Forensic and Investigative Sciences - BS, Science Emphasis

Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for

ICD or CD
consideration?

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus [fivs310-syllabus-revised.docx](#)

Letters of support or
other documentation No

Additional information As agreed by the ENTO department education committee 3/8/2017.

Reviewer Comments

Justification for this
request

Faculty member teaching course leaving TAMU; no other content expert available to teach material

Key: 17525

Course title and number FIVS 310 - Digital Forensics and Incident Response
Term Fall 2018
Meeting times and location TBA

Course Description and Prerequisites

FIVS 310- Digital Forensics and Incident Response. Credit 3 (2-2). Development of sterile virtual lab environments; collection of digital evidence; digital evidence analytics; analysis of log data; analysis and reversing of malware; recover damaged digital evidence; write technical reports on malware and incidents; legal and ethical components of digital forensic science.

Prerequisites: FIVS 205 with a grade of C or better; junior or senior classification or approval of instructor.

Learning Outcomes or Course Objectives

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

- Develop and create a secure lab virtual environment.
- Apply collection strategies for the collection of digital evidence.
- Analyze various forms of digital evidence for valuable insights.
- Recover evidence from damages or erased digital evidence from artifacts.
- Analyze and interpret material based on industry best practices resulting in a written report.

Instructor Information

Name TBA
Telephone number TBA
Email address TBA@tamu.edu
Office hours TBA
Office location XXXX XXX

Textbook and/or Resource Material

Guide to Computer Forensics and Investigations, ISBN- 978-1285060033

Grading Policies

Attendance

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at <http://student-rules.tamu.edu/rule07>.

Missed Exams or Quizzes, Grade Information

- Work must be ready to be turned when it is called for to be considered turned in "on time." Late work will be accepted with a 50% penalty within 24 hours of the original due date/time of the assignment with the exception of incidents as per student rule 7.
- Quizzes may be used to augment/replace daily class participation scores and are due the class period assigned.
 - Extra credit assignments will be offered to the entire class during the term. Extra credit is designed to help you get over a major grade "hump." If you come whining or begging at week 15 for a

letter grade bump and did no extra credit, your plea will fall on amazingly deaf ears.

- Students with excused absences may make-up missed assignments, exams, or quizzes with no penalty. Students must schedule make-up within 2 days upon their return to the class. All make-ups must be completed within 30 calendar days of student's return to class or in accordance with student rule 7.
- Grades for the course will be posted on <http://ecampus.tamu.edu> and the instructor is unable to discuss grades on individual assignments or as a whole for the course over e-mail.

Grading Scale

Participation – 10%
Exams – 20% (10% Each)
Final Exam – 20%
Labs – 30% (5% Each)
Final Lab – 10%
Mock Forensics Report – 10%

A = 900-1000 points
B = 800-899 points
C = 700-799 points
D = 600-699 points
F = <600 points

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.

Academic Integrity

Any incident involving academic dishonesty will result in a grade of F* in the course and students will be referred to the Aggie Honor Code Office for academic and/or disciplinary action.

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
For additional information please visit: <http://aggiehonor.tamu.edu>

Course Topics, Calendar of Activities, Major Assignment Dates

Week	Topic
1	Introduction to Digital Forensics as a discipline: its goals, philosophy, challenges and common practices;
2	Discussion of lab environments, including the building, maintenance, and auditing of; Lab- building your lab environment (50 points, 5% of course grade)
3	Introduction to forensic tools. Examines open source and paid tools commonly found in forensic toolkits. Lab- Tools on Display (50 points, 5% of course grade)
4	Discussion on Operating Systems, Files and File Systems, process, and creation of forensic file images. Lab- Identify and secure suspect files and process. (50 points, 5% of course grade)
5	Network Forensic Analysis, Exam 1 (100 points, 10% of course grade)
6	Evidence acquisition, transfer, and secure/safe storage, legal chain of custody.
7	Log analysis, learning REGEX. Lab – Making a REGEX (50 points, 5% of course grade)
8	Data Recovery, identifying hidden data, recovering deleted files, encryption/decryption; Lab - Artifact Recovery (50 points, 5% of course grade)
9	Malware Analysis, reversing; Lab- Reversing Malware (50 points, 5% of course grade)
10	Technical Writing in Digital Forensics, Exam 2 (100 points, 10% of course grade), Forensics Report topic assigned
11	Full scale Incident Response techniques
12	Examine Legal influence and requirements in Digital Forensics, Lab- Breach, Analyze and Respond (100 points, 10% of course grade)
13	Lab- Breach, Analyze and Respond cont.
14	Looking at the future; Forensics Report due (100 points, 10% of course grade)
Week 15-	Final Exam (200 points, 20% of course grade)