

MISSISSIPPI COLLEGE
DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

COURSE: AJU 447 - INVESTIGATING CYBER TERRORISM
3 SEMESTER HOURS
UNDER GRADUATE PROGRAM

INSTRUCTOR: WILLIAM E. BLUNDEN (wblunden@mc.edu)
OFFICE HOURS: BY APPOINTMENT ONLY

COURSE DESCRIPTION

This course provides an overview of cyber terrorism. It will address the basic theories, concepts, key terms, and definitions and current critical issues. This course will teach students to identify the ways that computers can be used by terrorists and criminals. Students completing this course will be able to appraise and assess the different kinds of cyber terrorism and other criminal activity. The course also examines technological advancements and the opportunities they may present for terrorists as well as how one can devise plans, countermeasures, and contingencies against future attacks. Students will also examine the efficacy of current U.S. policy regarding critical infrastructure protection and future avenues for addressing cyberterrorism.

COURSE LEARNING OBJECTIVES

The major objectives of this course is to:

1. Learn to differentiate between cyber terrorism, cybercrimes, and cyber warfare.
2. Identify the different types of cybercrimes and the motivation of those who commit them.
3. Explore the way that cyber warfare will be implemented on modern battlefields.
4. Provide the students the basics concepts of gathering physical digital evidence of cyber-crimes and/or cyber terrorism.
5. Learn the overall process of collecting and processing digital evidence.
6. Identify methods of online investigations into cybercrimes and cyber terrorism.
7. Understand prevention tactics of cybercrimes, cyber warfare, and cyberterrorism.
8. Discover the types of responses by governments and private institutions.

TEXT: BOOK ONE

“Cyber Crime and Cyber Terrorism Investigator's Handbook 1st Edition”

By: Babak Akhgar, Andrew Staniforth, Francesca Bosco

ISBN: 978-0-12-800743-3

BOOK TWO

“Cybercrime: Investigating High-Technology Computer Crime (2nd Edition)”

By: Robert Moore

ISBN: 978-1-4377-5582-4

BOOK THREE

“Cyber War: The Next Threat to National Security and What to Do About It”

by Richard A. Clarke and Robert Knake

ISBN: 978-0-06-196224-0

METHODS OF INSTRUCTION

The following methods of instruction are utilized during this class: Online and classroom instruction, reading assignments, Internet research, podcasts, Moodle assignments, and electronic and written notes.

INSTRUCTIONAL PROCEDURES/TECHNIQUES

This course is organized around classroom and online setting. Students are expected to keep up with the weekly course assignments, homework, and quizzes. Students will be provided external Internet links to seminars, videos, and other online resources.

COURSE REQUIREMENTS

There will be weekly reading and other assignments. There will be announced and unannounced quizzes. The lowest quiz grade will be dropped. There will be a mid-term and final exam. Seniors are not exempt from the final exam. Quiz and exam questions will come from the lectures, readings, study guides, PowerPoints, and any other material provided by the instructor.

RESEARCH PAPER

One research paper will be required. The student may choose their topic, but it must be related to cyber terrorism and/or cybercrimes and approved by the instructor. The topic must be submitted to the instructor for approval. Submitting a research paper without an approved topic/theme will automatically receive a 10 point deduction. The paper will be no less than six (6) pages in MLA or APA format. Any other format will be rejected and the student will not receive credit for the research paper. Students may not submit a paper for this class that has been submitted for any other class. Students must include a minimum of 6 references (of which no more than 3 may be electronic based). For the purposes of this requirement, articles located through EbscoHost and other online databases available through the Mississippi College library system do not count as electronic sources. Under no circumstances should a student cite a Wiki (i.e. Wikipedia) or any other open source website. If websites are used, they must be websites that are associated with legitimate educational or governmental entities. Failure to abide by this policy will result in significant grade deductions. The research paper is due no later than the date provided below. For every day the paper is late there will be a 10 point deduction. The research paper will be submitted via Moodle using Turnitin. The paper can be turned in early.

ACADEMIC HONESTY/PLAGIARISM

Mississippi College students are expected to be scrupulously honest. Dishonesty, such as cheating or furnishing false information, including forgery, alteration or misuse of College documents, records, or identification, will be regarded as a serious offense

subject to severe penalty. Students who violate the university academic honesty policy will be ineligible for Department of History and Political Science honors and for letters of reference from department faculty.

Plagiarism is the undocumented use of a source regardless of whether it is directly quoted or simply paraphrased. Unless it is common knowledge, any idea or information presented in a paper that you got from any source must be documented with both a citation within the body of the paper and a bibliography entry at the end of the paper. The absence of either or both of these elements constitutes plagiarism and will, at a minimum, be punished with a failing grade (F=0 points) for the paper. Further action (i.e. failure for the class and/or movement for expulsion from MC) will depend upon the severity of the offense. The rule of thumb is to borrow exact language only when the actual language of your source is better than any paraphrasing you could do. When in doubt, put it in your own words and then cite the source.

TECHNOLOGY REQUIREMENT 3.4.14

The institution's use of technology enhances student learning, is appropriate for meeting the objectives of its programs, and ensures that students have access to and training in the use of technology.

ACCEPTABLE USE POLICY

You must agree to this policy to continue using this site. Users who violate any of the guidelines set in the policy may be subject to disciplinary action. Mississippi College also retains the right to report any illegal activities to the appropriate authorities. You may not access, distribute or place on the site any material that: * is illegal in the US, is offensive, obscene or excessively violent (you are reminded that possession or distribution of pornographic material may be subject to criminal prosecution) * aims to encourage discrimination on the grounds of gender, sexual orientation, religion, or ethnic origin encourages or facilitates illegal activities, such as those relating to drugs, terrorism, computer hacking and credit card fraud * breaches copyright owners statutory rights (users should not use this site to plagiarize the work of others, or post any content including images without the permission of the owner/correct licenses). Non-original content must be correctly attributed. E-mail, messaging, forum or chat must not be used to harass, intimidate, or otherwise annoy another person. Your use of the platform is logged, and records are kept of all your activities and contributions to the site. As with all online sites, you should not regard any of your activity as private or confidential. Queries about the above policy and expectations should be referred to the Department of Academic Affairs.

ATTENDANCE

Class attendance is an essential part of university education, and students are expected to attend all classes and laboratories for which they are registered. Cumulative absences may result in a lowered grade or loss of credit for the course pursuant to Mississippi College attendance policies. For online courses, non-participation means the failure to login for any group assignments (i.e., chats, etc., tests, or weekly assignments. Excessive absences are the same as for classes that meet one time per week.

COURSE OUTLINE

The following is a general guideline for the course. The instructor may change the schedule and/or add material as needed.

WEEK	TOPICS	OBJECTIVES
Week 1	Course Introduction Definitions of Cyber Terrorism, Cyber Crimes, & Cyberwarfare	1
Week 2	New and Emerging Cyber Threats	1, 2, & 3
Week 3	Cyber Warfare and Warriors	1 & 3
Week 4	Types of Cyber Crimes	1 & 2
Week 5	Conducting General Cyber Investigations	4 & 5
Week 6	Botnet Army & Zombie Attacks	1, 2, & 3
Week 7	USCYBERCOM, FBI, & The Department of Homeland Security	7
Week 8	MID-TERM EXAM	
Week 9	Seizing Digital Evidence	4, 5, & 6
Week 10	Imaging and Analyzing Digital Evidence	4, 5, & 6
Week 11	Anti-Forensics & Counter-Forensics	4, 5, & 6
Week 12	Terrorists Using Cyberspace	1, 2, 5, 6, & 7
Week 13	Individuals Response to Cybercrimes & Cyber Terrorism	7, 8
Week 14	Industries Response to Cybercrimes & Cyber Terrorism	7, 8
Week 15	Governments Response to Cybercrimes & Cyber Terrorism	7, 8
Week 16	Final Exam	

IMPORTANT DATES

March 1, 2018	FEMA Certificates Due (IS100, IS200, IS700, & IS800)
March 8, 2018	Research Paper Topics Due
March 8, 2018	Mid-term Exam
April 12, 2018	Research Paper Due
May 1, 2018	Final Exam

COURSE GRADING

Quizzes.....	20% of final grade
Mid-Term Exam.....	25% of final grade
Final Exam	25% of final grade
Assignments.....	10% of final grade
Research Paper.....	20% of final grade

MAKEUP EXAMS

Students have 1 week from the exam date to make up exams. No makeup exams will be given unless you have a valid excuse (which includes serious illness and family emergency). Students will receive a grade of zero for invalid excuses or for not making up the exam in the required time. It is the student's responsibility to contact the teacher about taking a makeup exam within the allotted time.

GRADING SCALE

91-100% = A
81-90% = B
71-80% = C
61-70% = D

STUDENT RESPONSIBILITIES

Follow the syllabus and proofread everything that you send in by computer. You will be graded on content, grammar, spelling, and the amount of discussion given in any answer. You are expected to develop every answer fully so that the instructor can gauge your understanding of the material presented.

SPECIAL ACCOMMODATIONS

In order for a student to receive disability accommodations under Section 504 of the Americans with Disabilities Act, he or she must schedule an individual meeting with the Director of Student Counseling Services immediately upon recognition of the disability (if their disability is known they must come in before the semester begins or make an appointment immediately upon receipt of their syllabi for the new semester). The student must bring with them written documentation from a medical physician and/or licensed clinician that verifies their disability. If the student has received prior accommodations, they must bring written documentation of those accommodations (example: Individualized Education Plan from the school system). Documentation must be current (within 3 years). The student must meet with SCS face-to-face and also attend two (2) additional follow up meetings (one mid semester before or after midterm examinations and the last one at the end of the semester). Please note that the student may also schedule

additional meetings as needed for support through SCS as they work with their professor throughout the semester. Note: Students must come in each semester to complete their Individualized Accommodation Plan (example: MC student completes fall semester IAP plan and even if student is a continuing student for the spring semester they must come in again to complete their spring semester IAP plan). Student Counseling Services is located in Alumni Hall Room #4 or they may be contacted via email at mbryant@mc.edu or rward@mc.edu. You may also reach them by phone at 601-925-7790. Dr. Morgan Bryant, Director.