

Wayland Mission Statement

Wayland Baptist University exists to educate students in an academically challenging, learning-focused, and distinctively Christian environment for professional success, and service to God and humankind.

Contact Information

Course: MISM 4343 VC01 – Cybersecurity Threat Assurance

Campus: WBUonline

Term/Session: Fall 2022

Instructor: Dr. Joe Marnell

Office Phone Number/Cell #: 806.544.6336

WBU Email Address: marnellj@wbu.edu

Office Hours, Building, and Location: Office Hours 9-6 p.m. M-TH

Class Meeting Time and Location: WBUonline

Textbook Information

Required Textbook(s) and/or Required Materials:

BOOK	AUTHOR	ED	YEAR	PUBLISHER	ISBN#
<u>Cyber Defense Pro</u>	TestOut	1 st	2021	TestOut	9781-93508-0732

Chapters 9 - 15

*The textbook for this course is part of the **Wayland's Automatic eBook** program. You will have access to an eBook and interactive learning material on the first day of class through your Blackboard course site. The cost of this Automatic eBook will be billed directly to your student account when you register for the course. You will be notified via email with access instructions and additional information. If you do not wish to participate in the Automatic eBook program, you will have the first 12 days of class to opt-out of the program (additional details will be outlined in your email instructions). For more information on the Automatic eBook program, visit the Wayland Bookstore [Automatic eBook FAQ](#) page.*

Optional Materials: <<List optional materials recommended to enhance student learning>>

Course Information

Catalog Description:

Addresses various underlying principles and techniques for detecting and responding to current and emerging computer security threats including infrastructure security, wireless and IOT security, and incident response.

Prerequisite:

None

Course Outcome Competencies:

- Describe Malware, Trojans, Backdoors, combating, sniffing, hijacking and Denial of Service
- Intrusion Detection Systems, firewalls, Honeypots, DNS Sinkholes, Web Servers, network access, and Web applications
- Wireless Security, Mobile Device Security, Cloud Security, and IOT Security
- Hardware analysis, Security Information, log review, and event management (SIEM)
- Asset management, Supply chain management, change management, and virtualization management
- Software Development, automation, data analysis and protection
- Hashing, Digital Forensics, and email analysis
- Incident response, preparation, detection and containment, eradication and recovery, and indicators of compromise

Attendance Requirements

<<Select appropriate campus and delete the rest. Add your class attendance policy below the appropriate campus policy. >>

External Campuses

Students enrolled at one of the university's external campuses should make every effort to attend all class meetings. All absences must be explained to the instructor, who will then determine whether the omitted work may be made up. When a student reaches that number of absences considered by the instructor to be excessive, the instructor will so advise the student and file an unsatisfactory progress report with the external campus executive director/dean. Any student who misses 25 percent or more of the regularly scheduled class meetings may receive a grade of F in the course. Additional attendance policies for each course, as defined by the instructor in the course syllabus, are considered a part of the university's attendance policy. A student may petition the Academic Council for exceptions to the above stated policies by filing a written request for an appeal to the Vice President of Academic Affairs.

Plainview Campus

The university expects students to make class attendance a priority. Faculty members provide students a copy of attendance requirements. These are provided on the first day of class. Students in programs for which an outside agency (such as the Veteran's Administration) has stricter attendance requirements will be subject to those requirements. In addition, the university registrar will provide each student affected a list of these regulations. The dean of the school must approve part-time and adjunct faculty class attendance requirements prior to syllabi distribution.

WBUonline

Students are expected to participate in all required instructional activities in their courses. Online courses are no different in this regard; however, participation must be defined in a different manner. Student "attendance" in an online course is defined as active participation in the course as described in

the course syllabus. Instructors in online courses are responsible for providing students with clear instructions for how they are required to participate in the course. Additionally, instructors are responsible for incorporating specific instructional activities within their course and will, at a minimum, have weekly mechanisms for documenting student participation. These mechanisms may include, but are not limited to, participating in a weekly discussion board, submitting/completing assignments in Blackboard, or communicating with the instructor. Students aware of necessary absences must inform the professor with as much advance notice as possible in order to make appropriate arrangements. Any student absent 25 percent or more of the online course, i.e., non-participatory during 2 or more weeks of an 8-week session, may receive an F for that course. Instructors may also file a Report of Unsatisfactory Progress for students with excessive non-participation. Any student who has not actively participated in an online class prior to the census date for any given session is considered a “no-show” and will be administratively withdrawn from the class without record. To be counted as actively participating, it is not sufficient to log in and view the course. The student must be submitting work as described in the course syllabus. Additional attendance and participation policies for each course, as defined by the instructor in the course syllabus, are considered a part of the university’s attendance policy.

University Policies

Statement on Plagiarism and Academic Dishonesty: Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

Disability Statement: In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Director of Counseling, Career and Disability Services serves as the coordinator of students with disability and should be contacted concerning accommodation request at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

Accessibility issues with content in WBUonline courses or in Blackboard should be addressed to the WBU accessibility coordinator, Dr. Trish Ritschel-Trifilo, trifilot@wbu.edu or call (806) 291-3745.

Student Grade Appeals: Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Vice President of Academic Affairs to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

Course Requirements and Grading Criteria

<<Fill in specific requirements of the course including the criteria utilized to assess student performance and the weight of each. A variety of means to evaluate student performance should be used and grading criteria should conform to the grading system in the catalog.>>

The University has a standard grade scale:

A = 90-100, B = 80-89, C = 70-79, D = 60-69, F= below 60, W = Withdrawal, WP = withdrew passing, WF = withdrew failing, I = incomplete. An incomplete may be given within the last two weeks of a long term, within the last week of an 8-week session, or within the last two days of a microterm to a student who is passing, but has not completed a term paper, examination, or other required work for reasons beyond the student’s control. A grade of “incomplete” is changed if the work required is completed prior to the last day of the next long 16-week term or 8-week session, unless the instructor designates an earlier date for completion. If the work is not completed by the appropriate date, the I is converted to an F.

Tentative Schedule

Week	Ethical Hacking Intrusion Detection	Chapters	Videos	Lessons	PowerPoints Chapters	Labs
1	Cybersecurity Threats from Trojan, Malware and Ransom Attacks	9	39	4	1	18
2	Infrastructure Security	10	11	2	1	13
3	Wireless and IOT Security	11	12	2	1	7
4	Infrastructure Analysis	12	22	3	1	9
5	Software Assurance	13	5	3	1	0
6	Data Analysis Through Hashing and Digital Forensics	14	17	3	1	2
7	Incident Response	15	15	0	1	1
8	Practice Certification Exams 3-5 minimum attempts	Domain Review			1	1
Final	(Final Certification Exam) Test by end of 8 th week by Friday.					

Total			121	17	8	51
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Additional Information

The breakdown of the individual and total accumulated scores possible for each element of the course is provided at the top of each column and summarized at the beginning of the gradebook section. Needed.