

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 5345 <<VC01>> – Management of Data Security Analytics & Databases

Campus: <<WBUonline >>

Term/Session: <<Spring I 2025>>

Instructor: <<Dr. Lisa Bryan>>

Office Phone Number/Cell #: <<910-247-4410>>

WBU Email Address: <<bryanl@wbu.edu >>

Office Hours, Building, and Location: <<Monday 6 to 8:30 p.m. others by appointment>>

Class Meeting Time and Location: <<Online only>>

Catalog Description:

Focuses on deploying, managing and maintaining data and databases, including employing the fundamentals of scripting and programming in a database environment for security and business continuity and best-practices thru proper logistics with DataX simulated activities.

Prerequisite:

None

Textbook Information

Required Textbook(s) and/or Required Materials:

BOOK	AUTHOR	VER	YEAR	PUBLISHER	ISBN#
DataSys+	CompTIA	1	2024	CompTIA	9781-64274-5009

*This course is part of the **Pioneer Academic Access Program**. You will have access to an eBook, access code, and interactive learning material on the first day of class through your Blackboard course site. You will be notified via email with access instructions and additional information. If the course requires a physical book you can order at bookstore.wbu.edu. You can choose to opt-out, however if you do you will lose access to **EVERY class/material** and have to source through third party vendors.*

Optional Materials: <<none>>

Course Outcome Competencies:

- Identify Data Concepts and Environments
- Explain Data Mining
- Apply Data Analysis
- Appraise Database Management environment and Maintenance
- Formulate best practices for disaster recovery, backup, and restoration of database management systems

Attendance Requirements

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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

Academic Integrity:

[Link to Statement on Academic Integrity](#)

Artificial Intelligence:

A. No use of any generative AI tools permitted.

- Students are required to create and produce all work themselves or with assigned group members. Any work submitted that has used an AI generative tool like ChatGPT will be in immediate violation of the academic integrity policies for the course and WBU.
- All assignments must be fully created, designed, and prepared by the student(s).
- Any work that uses generative AI will be treated as plagiarism.

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 Disability Services Coordinator and Academic Coach serves as the coordinator of students with disabilities and must be contacted concerning accommodation requests. Office: (806) 291-1057. Documentation of a disability must accompany any request for accommodations.

Course Requirements and Grading Criteria

<<Grading based on weights

	Percentages	
A	90 – 100%	
B	80 - 89 %	
C	70 – 79%	
D	60 – 69%	
F	59% and below	

Labs 50%
 Discussion 25%
 Biblical Integration 5%
 Finals 20%
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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.

Tentative Schedule

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Week	Defense Analysis	Modules
1	Database Types and Structures Recognizing Standards and Commands	1,2
2	Running Scripts for Data and Data Systems The Impact of Programming on Data Operations	3, 4

3	Database Planning and Design Implementing, Testing, and Deploying Databases	5, 6
4	Monitoring and Reporting in Database Performance Understanding Common Data Maintenance Processes	7, 8
5	Understanding Governance and Regulatory Compliance Securing Data	9, 10
6	Securing Data Access Securing the Database and Server	11, 12
7	Classifying Types of Attacks Planning for Disaster Recovery	13, 14
Final	Implementing Backup and Restore Best Practices CompTIA Datasys+ Practice Questions	15 A.0

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Additional Information

<<none>>