FLORIDA ATLANTIC UNIVERSITY

COURSE CHANGE REQUEST
Undergraduate Programs

Department ITOM

College Business

UUPC Approval 10-12-2026
UFS Approval _____
SCNS Submittal _____
Confirmed _____
Banner Posted _____
Catalog _____

***Current* Course Prefix and Number**	ISM 4212	***Current* Course Title**	Database Management Systems

*Syllabus must be attached for **ANY** changes to current course details. See Template. Please consult and list departments that may be affected by the changes; attach documentation.*

Change title to:

Change prefix

From: **To:**

Change course number

From: **To:**

Change credits*

From: **To:**

Change grading

From: **To:**

Change Writing Across Curriculum (WAC) **

Add ☐ **Remove** ☐

Change General Education Requirement***

Add ☐ **Remove** ☐

*See Definition of a Credit Hour.

**WAC criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines.

***GE criteria must be indicated in syllabus and approval attached to this form. See General Education Guidelines.

Change description to:

The course focuses on database development and management from database design to implementation and query. Covers industry-standard database management tools and techniques to perform functions such as table creation, data insertion, retrieval, manipulation, and analysis.

Change prerequisites/minimum grades to:

Change corequisites to:

Change registration controls to:

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).

Effective Term/Year for Changes:	Spring 2027	**Terminate course? Effective Term/Year for Termination:**	

Faculty Contact/Email/Phone

Approved by	***Date***
Department Chair	9/14/2026
College Curriculum Chair	Sept. 30, 2026
College Dean Marc A. Rhoter	October 1, 2026
UUPC Chair Korey Sorge	10-12-2026
Undergraduate Studies Dean Dan Meeroff	10-12-2026
UFS President	
Provost	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

FLORIDA ATLANTIC UNIVERSITY

ISM 4212-001 15579

Database Management Systems

Date: M 11:00AM -01:50PM

Building: Instructional Services Boca, Boca Raton 113

3 Credit(s)

Fall 2026 - 1 Full Term

Instructor Information

Doehun Kim

Email: kimd@fau.edu

Office: Fleming Hall - Room 325 (Boca Raton)

Office Hours: by appointment

Course Description

The course focuses on database development and management from database design to implementation and query. Covers industry-standard database management tools and techniques to perform functions such as table creation, data insertion, retrieval, manipulation, and analysis.

Detailed Description

Database systems are essential for managing large volumes of data effectively and efficiently, making them a foundational component of management information systems and decision support systems. Given the principle of "garbage in, garbage out," database systems play a critical role in supporting reliable business analytics and data science. This course is designed to help students acquire the necessary knowledge and skills to work with database systems by offering a comprehensive introduction to data management using database management systems (DBMS). It covers three main areas—database design, implementation, and use—with a particular emphasis on the relational database model. Throughout the course, students will learn key concepts related to database management systems, data analysis and design using entity-relationship diagrams (ERD), and database implementation and use through Structured Query Language (SQL).

Instructional Method

Classes will be held in person and virtually though Zoom. It is highly recommended that students attend live to take advantage of the interaction with their professor and fellow peers.

Prerequisites/Corequisites

Prerequisite requirement, ISM 3011

Course Objectives/Student Learning Outcomes

- Students will reinforce learning of basic database concepts such as tables, relationships and queries. They will be introduced to advanced concepts such as normalization, SQL Code. The emphasis will be on database design.
- Students will demonstrate the ability to use software to create ERDs. Students will demonstrate proficiency in use of SQL to create, populate and query a database.
- Students will be able to demonstrate the ability to analyze data and available documents in order to demonstrate proficiency in applying database design techniques.
- Students will be able to demonstrate the ability to use a well-formed design to create a database.

Recommended Texts/Materials

NO REQUIRED TEXTBOOK
There will be multiple assigned readings in the form of lecture slides, articles, cases, etc. as distributed electronically or handouts by the professor and also available in the CANVAS Learning Management System.

Oracle Database 12c SQL by Jason Price (2014). New York: McGraw-Hill.
[ISBN: 978-0071799355]

Coronel, C., & Morris, S. (2019). Database systems: Design, implementation, and management (13th ed.). Boston: Cengage Learning. [ISBN: 978-1337627900]

Course Evaluation

Course Requirement	Weight
Assignments	50 %
Quiz	15 %
Exam1	10 %
Exam2	10 %
Final Exam	15 %
Total	**100 %**

Assignment. There will be a total of seven assignments throughout the duration of this course. Each assignment will cover various aspects of Entity-Relationship Diagrams, normalization, and SQL. Students are required to use software such as Microsoft Word and SQL tools to complete the assignments. One of the assignments will involve a presentation and will account for 10% of the final grade. The remaining assignments will carry a total weight of 40%. Late submissions will incur a penalty of a 10% deduction from the assigned score for each day the submission is delayed. Students are expected to proactively check their assignment grades and discuss any concerns with the instructor within one week of the grades being released.

Quizzes. There will be eight quizzes throughout the course. These quizzes will focus on the materials covered in the previous class, and it will procced during the in-class. The eight quizzes will collectively account for 15% of the final grade.

Exam. There will be two exams. Each exam consists of multiple-choice and true-false questions covering the course modules. The exam will be timed. **No make-up exams are given.** Each exam will collectively account for 10% of the final grade.

Final exam. The final exam will consist of multiple-choice, true/false, or short-answer questions. It will be conducted in a closed book and closed notes format. The exam will cover content from the lectures, PPT materials, assignments, and quizzes. Students will have only one opportunity to access and complete the exam.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

• Establish and implement academic standards.

• Establish and enforce reasonable behavior standards in each class.

• Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct University Regulation 4.007.

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Percentage
A	100 - 94%
A-	< 94 - 90%
B+	< 90 - 87%
B	< 87 - 83%
B-	< 83 - 80%
C+	< 80 - 77%
C	< 77 - 73%
C-	< 73 - 70%
D+	< 70 - 67%
D	< 67 - 63%
D-	< 63 - 60%
F	< 60 - 0%

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

• There was a computational or recording error in the grading.

• The grading process used non-academic criteria.

• There was a gross violation of the instructor's own grading system.

University Regulation 4.002 of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Missing Exams

A student who is unable to take an exam due to an emergency must inform me of that fact on or earlier than the day of the exam (except for extreme cases, i.e., you are in a coma in the hospital due to a car accident suffered on the way to the exam) and arrange for a make-up exam before the graded exam is returned to the class. Any student requiring a make-up will have to document this/her excuse (e.g., a letter from a physician written on the physician's letterhead stating the nature of illness and its severity). Exams missed without prior approval (or documented proof that the unapproved absence was unavoidable) cannot be made up. In no event will a make-up be given after the graded exam is returned to the class, which is usually the week after the exam is scheduled.

Late Assignments

1. All assignments are due by 11:59 PM on the due date indicated in the course schedule. For each day that the Assignment is late, there will be point deductions from the assignment's score. No extra assignments are permitted for additional credit in this course unless assigned by the instructor to the entire class.

2. Assignment Submission: All assignments are to be submitted through the Canvas system. When the Canvas system does not work, it can be submitted through email. For the email submission, only FAU email account is valid for the assignment submission. Email submissions through other email providers, such as gmail, yahoo and etc. will not be checked.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject.

Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited.

Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. **[Policy 12.16 Artificial Intelligence]**

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the **Florida Atlantic Code of Academic Integrity, Regulation 4.001.**

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit **https://fau.edu/ai/citation**

AI Language Specific To This Course

AI Flexible: The use of AI to assist in work assigned in this specific course is permitted only for specific assignments as indicated by the instructor. Use must be properly documented and cited per instructor guidelines (https://fau.edu/ai/citation).

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/

Student Support Services and Online Resources

- Center for Learning and Student Success (CLASS)
- Counseling and Psychological Services (CAPS)
- FAU Libraries
- Math Learning Center
- Office of Information Technology Helpdesk
- Center for Global Engagement
- Office of Undergraduate Research and Inquiry (OURI)
- Science Learning Center
- Speaking Center
- Student Accessibility Services
- Student Athlete Success Center (SASC)
- Testing and Certification
- Test Preparation
- University Academic Advising Services
- University Center for Excellence in Writing (UCEW)
- Writing Across the Curriculum (WAC)

Title IX Statement

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at https://www.fau.edu/ocr9/title-ix/. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297- CAPS.

Course Outline

Week	Date	Topics	Deliverables	Due Date
W1	Aug-24	• Introduction to Database Systems		
W2	Aug-31	• Entity-Relationship Diagram (ERD) (1)		
W3	Sep-7	• (No class) Labor Day		
W4	Sep-14	• Entity-Relationship Diagram (ERD) (2)	Quiz1 Assignment 1	
W5	Sep-21	• (No class) Fall break		
W6	Sep-28	• Transforming ERD to Relational Model	Quiz2	*Assignment 1: Sep-27 (11:59pm)*
W7	Oct-5	• Normalization • Assignment Presentation Information	Quiz3 Assignment 2	
W8	Oct-12	• Introduction to SQL + Single Table	Quiz4 Assignment 3	*Assignment 2: Oct-11 (11:59pm)*
W9	Oct-19	• Exam 1		*Assignment 3: Oct-18 (11:59pm)*
W10	Oct-26	• Single Row Functions	Quiz5 Assignment 4	
W11	Nov-2	• Creating, Altering, Updating	Quiz6	*Assignment 4: Nov-1 (11:59pm)*
W12	Nov-9	• Assignment Presentation		*PPT Slide: Nov-8 (11:59pm)* *Group and peer evaluation: Nov-9 (11:59pm)*
W13	Nov-16	• Problem Solving Exercise		
W14	Nov-23	• Exam 2		
W15	Nov-30	• Multiple Tables and Joins	Assignment 5 Quiz7	
W16	Dec-7	• Nested Subqueries	Assignment 6 Quiz8	*Assignment 5: Dec-6 (11:59pm)*

W17	Dec-14	• Final Exam		*Assignment 6: Dec-13 (11:59pm)*

Rationale for Course and Catalog Description Update

The current course descriptions published in the University Catalog were written more than a decade ago and no longer accurately reflect the content, learning outcomes, terminology, and analytical methods taught in our Business Analytics curriculum. Because Simple Syllabus automatically imports the catalog descriptions from the University Catalog website, the outdated language creates inconsistencies between the official catalog description and the syllabus currently used by faculty.

Updating these descriptions will:

- Ensure consistency between the University Catalog and course syllabi.
- Eliminate outdated terminology and inaccurate wording.
- Better reflect the current scope of business analytics, including modern analytical methods, data-driven decision-making, and contemporary business applications.
- Provide students with a more accurate understanding of course content and expectations.
- Reduce confusion arising from discrepancies across official university systems.

The proposed revisions do not substantially alter the academic intent of the courses. Rather, they modernize the language, improve clarity, and accurately represent the curriculum currently being delivered.

Below are the current and proposed catalog descriptions.

ISM 3116

Current Catalog Description:

Introduction to Business Analytics and Big Date (ISM 3116) 3 credits

Provides an understanding of the business intelligence processes and techniques used in transforming data to knowledge and value in organizations. Students also develop skills to analyze data using generally available tools (e.g., Excel).

Proposed Catalog Description:

The course introduces business intelligence processes and analytics techniques for transforming data into valuable insights. Students develop skills to analyze data using industry-standard analytics tools.

Also PROPOSED TITLE 'Spelling Correction' CHANGE

Introduction to Business Analytics and Big Data (ISM 3116)

ISM 4420

Current Catalog Description:

Social Media and Web Analytics (ISM 4420) 3 credits

Covers concepts and techniques for retrieving, exploring, visualizing and analyzing social network and social media data, website usage and clickstream data. Students learn to use key metrics to assess goals and return on investment, perform social network analysis to identify important social actors, subgroups and network properties in social media.

Proposed Catalog Description:

The course introduces concepts and techniques for retrieving, exploring, visualizing, and analyzing website and social media data by using industry-standard tools for quantitative and qualitative analysis.

ISM 4212

Current Catalog Description

Database Management Systems (ISM 4212) 3 credits

Prerequisite: ISM 3011 or ACG 4401

Focuses on the development of well-formed databases for the purpose of data management from the initial design of the database to the implementation and query and to the application of database management tools and techniques such as data security for use in business and government organizations.

Note: There is no change to the 'Prerequisite'. Only changing the course description.

Proposed Catalog Description:

The course focuses on database development and management from database design to implementation and query. Covers industry-standard database management tools and techniques to perform functions such as table creation, data insertion, retrieval, manipulation, and analysis.
