



**COURSE SYLLABUS
AND
INSTRUCTOR PLAN**

**INTRODUCTION TO DATABASE
ITSW - 1307 – H1**

JAN D. ROBERTSON

INTRODUCTION TO DATABASE

ITSW 1307.H1

Course Description:

Introduces database theory and the practical applications of a database. Students will identify database terminology and concepts, plan, define and design a database; design and generate tables, forms and reports; and devise and process queries. Semester Hours 3 (2 lec/2 lab)

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Notes: The student must have the textbook by the end of the first week of class. Lab time is required for this course in order to complete all assignments and practice for exams. All exams are given in class. The students has only the length of the class period in which to complete each exam.

Recommendations: The instructor recommends anyone contemplating taking this course have a working knowledge of using Win 10 and be able to keyboard.

Instructor Information:

Instructor Name: Jan D. Robertson
MCC E-mail: jrobertson@mclennan.edu
Office Phone Number: 254-299-8218
Office Location: HPN 118
Office/Teacher Conference Hours: Posted next to office door
Other Instruction Information: B.S. and M.S. degrees

Required Text & Materials:

Title: New Perspectives on Microsoft Office Office 365 Access 2016 Intermediate
Author: Shellman/Vodnik
Edition: N/A
Publisher: Course Technology
ISBN-13: 9781305880290
Flash drive: 1 gigabyte or larger

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MCC Bookstore Website: <http://www.mclennan.edu/bookstore/>

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

"College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing the resources, we encourage you to contact a success coach by calling (254) 299-8226. Students can visit the Completion Center Monday-Friday from 8:00 am - 5:00 pm to meet with a success coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) is open 12:00 pm -1:00 pm, Monday-Friday, without an appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC)."

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be contacted/notified through your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

* [Click Here for the Minimum System Requirements to Utilize MCC's D2L|Brightspace \(www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements\)](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system

Methods of Teaching and Learning:

Students will learn content by reading the textbook and completing assigned tutorials and case problems, as well as listening to and participating in classroom demonstrations and discussions.

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Course Objectives and/or Competencies:

- A. Course Objectives: This course provides hands-on experience with one of several popular Database Management Systems available for personal computers. The course begins a discussion of the Windows operating environment. Windows file management techniques are introduced and used. The DBMS (Database Management System) is presented in a problem-solving framework that mirrors actual business applications. Techniques of good database design are integrated throughout the course. Some class time will be provided for lab assignments. However, most students will need additional lab time, outside of class, to complete the lab assignments.
- B. Course Competencies: Upon successful completion of the course, the student will be able to:
1. Load the operating system, launch Windows, and use Windows commands and file utilities to:
 - a. Create a folder
 - b. List contents of a folder
 - c. Copy files or folders
 - d. Rename files or folders
 - e. Erase one or more files or folders
 2. Define and use the terms that reflect the basic concepts and language of database design and management.
 3. Design database structures based on the data to be stored.
 4. Perform the following activities:
 - a. Launch the DBMS
 - b. Create and modify database objects
 - c. Maintain a database table by adding, editing, and deleting records
 - d. Create queries to retrieve specific records or parts of records
 - e. Perform comparison and logical operations
 - f. Organize records by sorting and indexing
 - g. Use DBMS statistical commands
 - h. Apply the concepts of report generation and produce reports with one or two levels of subtotals
 - i. Apply the concepts of screen design and create custom screen formats
 - j. Explain and use the DBMS procedures for working with multi-table databases
 5. Allocate time to successfully complete lab assignments, prepare for exams and meet attendance requirements of his/her instructor.
 6. Take responsibility for all materials required for the class and computer work space.
 7. Collaborate during labs to provide and receive hands-on assistance with assignments.
 8. Interface with others in classroom from culturally diverse backgrounds.

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9. Acquire information from textbooks, from instructor's presentations, from collaborative learning with other students, and from hands-on lab assignments; and apply information to performing functions on the microcomputer.
10. Analyze and evaluate solutions to hands-on lab assignments for completeness and correctness.
11. Utilize microcomputers for hands-on lab assignments.
12. Acquire an understanding of the functions of a Database Management System.
13. Explore and apply the functions of a Database Management System.
14. Acquire information on configurations of systems and hardware and database specifications and how to select technology to apply to a specific task.
15. Perform database functions on a microcomputer system.

Foundation Competencies:

1. Understand written descriptions of the software's features and capabilities; read and interpret written instructions to complete tutorials on the computer; and access on-line help systems for reference materials.
2. Design and create layouts for forms and reports.
3. Use math functions, and define and create calculated fields for queries, reports and forms.
4. Assist each other by describing and explaining features of the software.
5. Receive verbal instructions for operating the computers and completing assignments.
6. Evaluate data, and design database structures to maintain the system's data.
7. Select database tools appropriate to the task, and identify and correct errors
8. Design and create queries to retrieve the information.
9. Act responsibly by completing assignments by due dates.
10. Act responsibly by checking provided solutions to verify the correctness of assignments.
11. Act accountably for academic integrity.

C. Evaluation

1. Practical laboratory hands-on exams
2. Laboratory hands-on assignments
3. Discussions on Brightspace

Course Outline or Schedule:

TENTATIVE CALENDAR FOR INTRO TO DATABASE—ITSW 1307.H1--

Any changes, if needed, will be posted on Brightspace in an announcement and announced in class. **Note:** Course Objective A applies to all assignments and exams.

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Week 1: Orientation

Week 2: Windows Review/Set up flash drives for Access

Week 3: Mod 1

Week 4: Mod 2

Week 5: Mod 3

Week 6: Reinforcement Labs

Week 7: Exam 1

Week 8: Mod 4

Week 9: Mod 5

Week 10: Reinforcement Labs

Week 11: **Exam 2**

Week 12: Mod 6

Week 13: Mod 7

Week 14: Mod 8

Week 15: Final Reinforcement Lab

Week 16:FINAL EXAM

Course Grading Information:

Case Problems = 20% (Case Problems/Reinforcement Labs/Modules)

Discussions = 5%

Unit Exam 1 = 25%

Unit Exam 2 = 25%

Final Exam = 25%

The final grade for this course is determined by applying the following scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 59 or below = F (Grades are not rounded.)

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Exams consist of hands-on directions only. Case problems and modules: ten points per error. No make ups for assignments or exams without proof of emergency.

Late Work, Attendance, and Make Up Work Policies:

If a student misses an exam (according to the testing schedule) and has proof of emergency for missing that test date, the make-up test MUST be taken within two days of the original testing period for that unit. It is the student's responsibility to contact the instructor concerning a makeup. If the student misses a unit exam for some other reason or miss the make-up time frame, the final exam score will be counted twice. If the student misses a second unit exam and do NOT have written proof of emergency, a zero will be recorded for the missed unit exam.

Work must be submitted by the dates listed on the Assessments--Assignments page. Late work will not be accepted without proof of emergency. Ten points will be deducted per error.

Absence from 25 percent of lecture/demonstration will be taken as evidence that a student does not intend to complete the course, and the student will be withdrawn from the course with a grade of W. If the student's 25 percent absences are reached after the official drop date (last day for student initiated drop), the instructor may assign a W, if the student is passing. However, if a student who is not passing reaches the 25 percent point after the official drop date, the student will receive an F. In extenuating circumstances, the instructor may assign a W to a student who is not passing.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor via email, discussion board or personal appearance, prompt and regular attendance via meeting due dates/due times, and an attitude that seeks to take full advantage of the education opportunity.

* [Click Here for the MCC Academic Integrity Statement](http://www.mclennan.edu/academic-integrity)
(www.mclennan.edu/academic-integrity)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

Instructor's Academic Integrity Statement:

Be honest! Do your own work, and be prepared for exams. Anyone caught completing/submitting work for someone else or anyone submitting work completed on his/her behalf by someone else will receive a "0" for that assignment. Anyone giving or receiving assistance on exams will receive an automatic "F" for this course.

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* **[Click Here for the MCC Attendance/Absences Policy](#)**

(www.mclennan.edu/highlander-guide/policies)

Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. Instructors should not provide accommodations unless approved by the Accommodations Coordinator. For additional information, please visit mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu

254-299-8122

Room 319, Student Services Center

* **[Click Here for more information about Title IX](#)**

(www.mclennan.edu/titleix)

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Vice President for Student Success) at 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC by calling 299-8210. The MCC Student Counseling Center is a confidential resource for students.

McLennan's Title IX webpage (<http://www.mclennan.edu/titleix/>) contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape,

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acquaintance rape, sexual assault, sexual harassment, stalking, dating violence or domestic violence.

** You will need to access each link separately through your Web browser (for example: Internet Explorer, Mozilla, Chrome, or Safari) to print each link's information.*