Database Management and SQL Design

CIS210 221

Spring 2021

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| **Instructor:** | Peter Burgess | **Phone:** | 928.230.8207 Cell | |
| **Office Location and Hours:** | Office Hours - M-W 9:00-Noon (virtual)  Tutoring: Th. 9-11:00 Student Success Center (virtual) | **E-mail:** | pburgess@mohave.edu | |
| **Class Dates, Days, and Times:** | 1/19/21 – 5/10/21 Remote    Presidents Day, Monday, February 15th, college closed    Spring Break, March 15-19, 2021 (no classes) | **Class**  **Location:** | Remote | |
| **Drop Period:** | Add and Drop Period: Tuesday, January 19 – Tuesday, January 26, 2021  [2020-21 Academic Calendar](https://www.mohave.edu/assets/2020-21-22-23-Academic-Calendar-BOG-Approved-3.13.20.pdf)  (Be aware that dropping/withdrawing a course may affect your financial aid and/or veterans education benefits.) | | | |
| **Withdrawal Dates:** | Withdraw Dates: Wednesday, January 27 – Monday, April 26, 2021    [2020-21 Academic Calendar](https://www.mohave.edu/assets/2020-21-22-23-Academic-Calendar-BOG-Approved-3.13.20.pdf)  You may be administratively withdrawn (WR1) from the class if you do not participate for three (3) consecutive weeks. Please see the [Catalog](http://catalog.mohave.edu/) for more information. (Be aware that dropping/withdrawing a course may affect your financial aid and/or veterans education benefits.) | | | |
| **Secondary Contact:** | Dr. Stephanie Dieringer: sdieringer@mohave.edu | **Course**  **Modality:** | | Ground/Zoom  (Plural-Schoology) |
| **Schoology**  **(Learning**  **Management System):** | All courses are web-enhanced and, as such, all students are required to have access to the  Learning Management System. The Learning Management System can be accessed via the  Library and the Student Success Center on each campus. Access the Learning Management System through the MyMohave portal: **http://www.myclasses.mohave.edu** Note: Grades may be checked in the Learning Management System. | | | |
| **Course**  **Description:** | This course is intended to provide students with an introduction to database management, beginning SQL concepts, and database design methodology. | | | |
| **Course Goals:** | **By the end of the semester, students will be able to:**   1. Define database and SQL terminology and be able to design a database that conforms to the user’s database requirements. 2. Create hierarchical, network and relational data models. 3. Evaluate the advantages and disadvantages of different database structures. 4. Define SQL theory, object-oriented and distributed database terms and concepts. | | | |
|  | 5. Complete a database application that involves designing and testing a database model that uses SQL to determine query results. | | | |
| **Materials/ Equipment:** | Software/Equipment  Windows 7, 8, or 10 and Office 2013 or 2016 (Access)  Also, software will be available virtually by connecting to MCC through the following  Website: https://view.mohave.eduAlso, software will be available virtually by connecting to MCC through the following Website: https://view.mohave.edu | | | |
| **Textbook Title, Author, and ISBN:** | Title: Concepts of Database Management, Ninth Edition Copyright: 2019 ISBN-13: 978-1-337-09342-2    All required course materials may be obtained at <https://www.mohavebookstore.com/> | | | |
| **Other**  **Resources:** | Tutoring is available by the Instructor on an appointment basis only and will be combined with the Zoom interface.  Online Tutoring is available at the following link:  <http://mohave.edu/resources/student-success-center/> | | | |

Grading Criteria and Scale:

Course Assignments:

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| **Key Terms:** Found at the end of each assigned chapter, complete a short definition for each term in a Word document and submit into Schoology for credit. |
| **Review Questions**: Found at the end of each assigned chapter, as assigned, including short answer and problems. Submit the file electronically through Schoology using either Word or Excel. |
| **Exercises:** Found at the end of each assigned chapter, as assigned, including hands-on problem-type questions to review the concepts found in the chapter. Submit the file electronically through Schoology using either Word or Excel. |
| **Term Project:** Complete an actual relational database design and implement it into a working database using Microsoft Access using SQL (code is required and to be turned in on a Notepad document), as per assignment worksheet provided by the Instructor. |
| **Exams:** Multiple Choice, True/False, Fill-in-the-Blank answers over each chapter’s material. Three Exams, three chapters per exam (no comprehensive final). |

Grading Criteria:

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| **Grading Scale** |
| A = 90 – 100% |
| B = 80 – 89 |
| C = 70 – 79% |
| D = 60 – 69% |
| F = 0 – 59% |

Course Schedule (Note: Grades may be checked on Schoology):

Grading Scale

1. = 90 – 100%
2. = 80 – 89%
3. = 70 – 79%
4. = 60 – 69%

F = 0 – 59%

Note: Grading scale varies for dental and nursing programs.

Course Schedule *- Course outline is subject to change but you will be notified in class.*

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| **Item:** | **Details:** | **Points:** |
| **Attendance / Participation** | Points awarded per day for attendance and a reasonable amount of participation (following lecture, etc.) | Syllabus Quiz/Introductions:  10/10 Points  Daily: 5 Points  Total: 170 Points  Percentage: 17% |
| **Key Terms** | As assigned per chapter, brief definitions to be completed for each term in a Word document then submitted into Schoology. | Chapter: 10 Points  Total: 90 Points  Percentage: 9% |
| **Review Questions** | As assigned per chapter, brief answers and/or problem solutions completed in a Word document then submitted into Schoology. | Projects: 20 Points  Total: 180 Points  Percentage: 18% |
| **Exercises** | As assigned per chapter, brief answers and/or problem solutions completed in a Word document then submitted into Schoology. | Chapter Exercises: 20 Points  Total: 160 Points  Percentage: 16% |
| **Term Project** | Design, code, and implement a working database for your chosen company (real or fictitious) and present the project requirements to the class on the last session of the term. | Deliverable/Presentation:  160/30 Points  Total: 190 Points  Percentage: 19% |
| **Exams** | Contains questions from the text, 3 chapters per exam, including multiple choice, true-false, fill-in-the-blank questions. Three exams (no comprehensive final). | Exams: 70 Points  Total: 210 Points  Percentage: 21% |
| **Total Points** | **\*Missed/INC work may be submitted until Monday, 5/10/21. Late penalty of 10% will apply if more than two weeks late.** | **Total Points: 1,000** |

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| Session | Learning Unit | Required Reading/ Assignments/ Exams with due dates |  |
| Week Seven:  3/2/21 -  3/8/21 | Chapter 5: Database Design 1: Normalization |  |

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| *Week Seven cont.* |  | Text: Complete Review Questions 1, 10, 12 and BITS  Corporation Exercises 1, 2 on pages 173-175 in a Word document.  CIS210 Workshop Three Lab-SQL Exercise, extra credit, optional.  **Due 3/8/21** |
| Week Eight:  3/9/21 -  3/15/21  ***Spring Break,***  ***Monday, March***  ***15th – March 19th*** | Chapter 6: Database Design 2: Design Method  PowerPoint Presentation  Lecture | Read Chapter 6  PowerPoint Presentation Chapter 6  Text: Complete Chapter 6 Key Terms, as assigned, in a Word document.  Text: Complete Review Questions 1, 5, 7 and BITS  Corporation Exercises 1, 4 on pages 218-220 in a Word document.  Complete Workshop Four Lab-SQL Exercise-extra credit, optional.  **Due 3/15/21** |
| Week Nine:  3/23/21  3/29/21 | **Exam 2 (3/23)**  Lab Day (3/25) | **Exam 2: Chapters 4-6**  Work on Project, catch-up on assignments, etc.  Complete Group Project code for *Create Table* and *Insert Into* statements for Initial Feedback/Grading.  **Due 3/29/21** |
| Week Ten:  3/30/21  4/5/21 | Chapter 7: DBMS Functions  PowerPoint Presentation  Lecture | Read Chapter 7  PowerPoint Presentation Chapter 7  Text: Complete Chapter 7 Key Terms, as assigned, in a Word document.  Text: Complete Review Questions 1, 4, 7, 11, 20 and BITS Corporation Exercises 3, 5 on pages 248-249 in a Word document.  Complete Group Project code for *Create Table* and  *Insert Into* statements for Final Grading. **Due 4/5/21** |
| Week Eleven:  4/6/21  4/12/21 | Chapter 8: Database Administration  PowerPoint Presentation | Read Chapter 8  PowerPoint Presentation Chapter 8 |
| *Week 11 cont.* | Lecture | Text: Complete Chapter 8 Key Terms, as assigned, in a Word document.  Text: Complete Review Questions 1, 2, 4 and BITS  Corporation Exercises 1, 2 on pages 271-272 in a Word document.  Complete Group Project code for Create Table and Insert Into statements for final feedback/grading.  **Due 4/12/21** |
| Week Twelve:  4/13/21 -  4/19/21 | Chapter 9: Database Management  Approaches  PowerPoint Presentation  Lecture | Read Chapter 9  PowerPoint Presentation Chapter 9  Text: Complete Chapter 9 Key Terms, as assigned, in a Word document.  Text: Complete Review Questions 1, 4, 6 (no exercises) on pages 309-311 in a Word document.  Complete Group Project Code  (SELECT...FROM...WHERE and CREATE VIEW) for Initial Feedback/Grading.  **Due 4/19/21** |
| Week Thirteen:  4/20/21 -  4/26/21 | **Exam 3 (4/20)**  Lab Day (4/22) | **Exam 3: Chapters 7-9**  Work on Project, catch-up on assignments, etc.  Complete Group Project Code  (SELECT...FROM...WHERE and CREATE VIEW) for Final Grading  **Due 4/26/21** |
| Week  Fourteen:  4/27/21 -  5/3/21 | Lab Week  Work on Project, catch-up on assignments, etc. | No assigned work; use the time to catch up on missing assignments, finalize the project deliverable, and prepare the presentation.  **Due 5/3/21** |
| Week Fifteen  5/4/21 - 5/10/21 | Project Presentations Catch-Up Week  Final questions, concerns | Students to submit their final Group Project deliverable and present their group project to the class *(all members of the group must participate in some way in the presentation to receive credit for that portion of the project).*  ***All late, missing, etc. work due no later than Monday, 5/10/21 for credit.*** |

**MCC Connect/Help Desk:** Learning Management System (LMS) access issues, password issues, and any other access concerns should be referred to MCC Connect at 866-MOHAVE CC (866-664-2832).

**HELP IS HERE!** The MCC Student Success Center can help you maintain your focus on education. The [Student Success Center](https://www.mohave.edu/resources/student-success-center/) helps students turn hassles into tassels with support in the classroom to navigating life issues (stress, test anxiety, childcare concerns, illness, etc.), Call MCC Connect at (866) 664-2832 to connect with your campus-based Student Success Center or visit <https://www.mohave.edu/resources/>for more information.

**Student E-Mail Accounts:** MCC uses this email account to send you important information. As a student, it is your responsibility to check this account regularly or forward this email to an account that is checked regularly. For information on how and where to access your MCC student email account, go through the MyMohave portal at [http://mymohave.mohave.edu.](http://mymohave.mohave.edu/)

**Disability Services:** Mohave Community College (MCC) strives to facilitate, within reason, appropriate resources, services, and auxiliary aids to allow each qualified person with a documented disability equitable access to educational programs, social experiences, and career opportunities according to the requirements of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. If you are a student with a disability or think you may have a disability that requires academic accommodations, please contact a Student Services representative to discuss your request further. Additional information can be found on the web at [http://www.mohave.edu/resources/disabilityservices.](http://www.mohave.edu/resources/disabilityservices)

NOTE: Students who wish to utilize academic accommodations must report their concerns to an academic advisor, not the instructor.

**Title IX Resources:** MCC prohibits discrimination on the basis of age, ethnicity, color, disability, gender identity, gender expression, genetic information, national origin, race, religion, retaliation, serious medical condition, sex and sexual orientation. Furthermore, Title IX prohibits sex discrimination to include sexual misconduct: domestic violence, sexual violence (sexual assault, rape), sexual harassment and retaliation. For more information visit[: http://www.mohave.edu/about/safety.](http://www.mohave.edu/about/safety) Questions or complaints regarding Title IX should be referred to the Title IX Coordinator (included below) or campus dean.

Danette Bristle (Title IX Coordinator)

Accreditation Liaison/Compliance Officer 3400 Highway 95, Bullhead City, AZ 86442 dbristle@mohave.edu 928-704-9480

NOTE: The Department of Education requires students to receive training in Title IX once a year at their college or university. If you need to take the training, you will be prompted to complete it when logging into the Learning Management System.

**Diversity Statement**: Mohave Community College is committed to providing equal employment opportunity, educational opportunity, and advancement to individuals without regard to race, color, religion, gender, national origin, age, mental or physical disability, sexual orientation, veteran status, or any other legally protected class in any of its policies, practices, or procedures. Respecting the diversity of life experiences, we seek to celebrate the unique characteristics of all faculty, staff, students and community members. The college shall promote equal opportunity and treatment on a continuing basis through a positive and ongoing affirmative action program. See the [MCC Diversity](http://www.mohave.edu/diversity) webpage for further information.

**Code of Conduct**: Students are responsible for abiding by the *Student Code of Conduct* located in the *Student Handbook* which can be found a[t catalog.mohave.edu.](http://catalog.mohave.edu/)

**Course Withdrawal Process:** It is the student’s responsibility to withdraw from a class within the withdrawal period. Ceasing to attend does not constitute a withdrawal. Note that this process takes *four business days*; please plan ahead. Note: When you withdraw from a class:

* You will receive a W with no credit values on your transcript.
* You are not eligible for a refund of tuition or fees.
* If you have received financial aid, you may have to pay back the monies received. You must contact the Bursar’s office within seven (7) days to make payment arrangements for any outstanding amount. You will be unable to register for additional classes or receive a transcript until financial arrangements have been made with the Bursar.
* Withdrawing from or being administratively withdrawn from a course may impact VA education benefits.
* Learn more about financial aid implications associated with withdrawing at [https://www.mohave.edu/paying-for-college/financialaid/policies/withdrawals/.](https://www.mohave.edu/paying-for-college/financial-aid/policies/withdrawals/)

**Instructions:**

1. Contact a Student Services representative who is an expert in Financial Aid to learn how you will be impacted by withdrawing. Call MCC Connect at 866-MOHAVE CC (866-664-2832).
2. Using your MCC student e-mail, notify your instructor at his/her MCC email account that you intend to withdraw from a class.
3. After hearing from your instructor (or after three business days if the instructor does not reply), log in to JICS and complete the withdrawal form. The date the form is submitted will be listed as your last day of attendance.
4. Check your email for a confirmation of the withdrawal. Enrollment Services will send a confirmation of withdrawal to the student, the instructor, Financial Aid, and the Help Desk.

**Student Rights and Responsibilities:** Students are responsible for abiding by College Policies which cover drug-free campus, emergency procedures, infectious disease, campus safety, sexual harassment, smoke-free environment, use of electronic devices, solicitation, visitor expectations, voter registration and weapons policy. The *Student Handbook* also covers the disruptive student policy and the student honor policy, including academic integrity and plagiarism, copyright compliance, dress code, FERPA information, the grievance process, and how to update personal information. The academic section covers attendance, grading, auditing, incomplete course grades, withdrawals, academic probation and dismissal, withdrawals, and incomplete grade contracts. Students are responsible for abiding by the policies governing these topics that can be found in the MCC Catalog a[t http://catalog.mohave.edu/.](http://catalog.mohave.edu/) College Policies are found in the *Student Handbook* as are other policies in the *Students’ Rights and Responsibilities* section.