

## College of Southern Nevada

### Course Syllabus

## CIT180 - Sample syllabus – Database Concepts and SQL

The official syllabus with the official schedule of activities will be available in Canvas on the first day of class.

This syllabus should give you a good idea of the course. It has textbook information and a tentative schedule of activities.

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| <b>Course Information</b>                | CIT180 - Basic principles of data modeling and relational database design. Hands-on learning of Structured Query Language (SQL).<br>Prerequisite: IS 115 or equivalent programming experience or instructor permission. This course covers the Oracle Database management system.  |
| <b>Course meeting time/days/location</b> | Online   |
| <b>Instructor Information</b>            | Name: Naser E. Heravi<br>Phone: (702) 651-3148<br><a href="mailto:naser.heravi@csn.edu">naser.heravi@csn.edu</a><br><a href="#">The link to my Web site</a><br>Office Mailbox code: HNC201   |
| <b>Learning Outcomes</b>                 | This course will provide you with a solid understanding of the relational model and of the theory behind SQL. Furthermore, it will address the needs of both the user and the developer. From the user's standpoint you will become proficient at translating information needs into appropriate SQL statements. From the developer's standpoint you will gain experience in designing databases which conform to the relational model. Specifically, when you successfully complete the course, you will be able to: <ul style="list-style-type: none"><li>• explain the fundamental concepts of relational database design</li><li>• illustrate the structure of a database using commonly used methods for diagramming a database</li><li>• demonstrate how relations (tables) can be normalized</li><li>• use a database management system's tools to communicate with the database and to issue commands</li><li>• use SQL commands to create tables and to insert, update and delete data in tables</li><li>• formulate SQL queries of varying complexity to extract information from tables</li><li>• design and implement an SQL-based information system to meet the requirements of a case study or of an actual user.</li></ul> |
| <b>Textbook</b>                          | <b>REQUIRED</b> – We'll be using an eBook for this course. All the details will be provided on the first day of class.   |
| <b>Late Work policy</b>                  | I will not accept late work, unless I extend a due date for an assignment. There are NO MAKEUP exams or assignments. All exams and   |

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|                             | assignments will have strict due dates.   |
| <b>Method of Evaluation</b> | Grades are based on exams and projects throughout the semester. All assignments will be submitted via the Canvas assignment dropbox. Detailed instructions will be provided in the text of the requirements for each of the assignments. If the Canvas email system fails and you must use a different system to submit your assignments, send your assignments files to my alternate email address. All exams are delivered through the Canvas system. All exams will have strict time limits and detailed information will be provided at least a week before the date of the exam.   |
| <b>Grade determination</b>  | <p>Your grade is based 2 exams, chapter quizzes, and homework assignments. <b>You must submit your work by the due date as though it will be graded. I DO NOT accept late work.</b> Exam 1 is 20% of your grade, exam 2 is 20% of your grade, chapter quizzes and assignments are 60% of your grade. Chapter quizzes are a part of the assignments. All exams will be taken in class. Chapter quizzes are taken outside of class. All exams may include True/False, Multiple-choice, short answers, and essay type questions. The following is how letter grades are assigned based on total percentages of assignments and exams.</p> <p>NOTE: We may also use material from the Oracle Academy, also referred to as Oracle iLearning material. Detailed instructions to access this resource is included in Canvas.</p> <p><b>100 to 94 A</b><br/> <b>90 to less than 94 A-</b><br/> <b>87 to less than 90 B+</b><br/> <b>84 to less than 87 B</b><br/> <b>80 to less than 84 B-</b><br/> <b>77 to less than 80 C+</b><br/> <b>70 to less than 77 C</b><br/> <b>60 to less than 70 D</b><br/> <b>Less than 60 F</b></p> |
| <b>Attendance Policy</b>    | College assumes maturity, seriousness of purpose, and self-discipline for meeting the responsibilities associated with each course. If you will need the instructor to sign documents testifying about your attendance, <b><u>YOU</u></b> must come to the instructor after each class you attend to let her know you were there. Class participation is a strong aspect of this course and your participation is always encouraged.  |
| <b>Academic Integrity</b>   | Scholastic dishonesty will not be tolerated. You are expected to have read and understood the <a href="#">CSN Academic Integrity Policy</a> . CSN demands a high level of academic behavior. Acts of academic dishonesty including plagiarism and cheating are regarded as very serious offenses. If academic dishonesty is discovered in this class, the student will receive a grade of "F" for the class.  |
| <b>Disability Resource</b>  | If you have a documented disability that may require assistance, you will need to contact the Disability Resource Center (DRC) for coordination of  |

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| <b>Center</b>                                      | <p>your academic accommodations. The DRC is in Student Services on each major campus. More information about the CSN DRC please visit the <a href="#">DRC web site</a>.</p> <p>For more CSN Americans with Disabilities Act (ADA) information please visit the <a href="#">ADA web site</a>.</p>  |
| <b>Disclaimer</b>                                  | <p>This syllabus is subject to change with advance notice. Notices will be posted in the online forum. It is your responsibility to stay informed.</p>  |
| <b>Tentative schedule</b>                          | <p>Schedule offered in Canvas on a timely basis.</p>  |
| <b>Student Rights &amp; Responsibilities</b>       | <p>It is your responsibility to be aware of your rights and responsibilities. This information is in the General Catalog and Student Handbook, which can be found on the CSN <a href="#">Catalog/Schedule/Calendar web page</a>.</p>  |
| <b>College Library Services</b>                    | <p>The Library offers a wealth of resources to help you with your research projects. There are libraries at each of the main campuses and an extensive collection of resources available from the <a href="#">Library's Homepage</a>.</p> <p>A note from your library: The library holds many workshops such as "College Library Services offers ongoing research workshops throughout the semester. Bring your topic or assignment to one of</p> <p>The workshops on the basics of locating and citing quality information and receive in depth assistance with a librarian. <a href="#">Check out the schedule</a> or call 651-5729 for more information.</p> |
| <b>References</b>                                  | <p>Safari Tech Books available through the library offer an excellent source of supplemental resources that you may use for this course.</p> <p>To find Safari Books Online, go to the <a href="#">library's web site</a> Click the Databases button. In the A-Z Databases page that appears, click S to filter. The link to <b>Safari Books Online</b> should be at or near the top of the list.</p>   |
| <b>Required extra- or co-curricular activities</b> | <p>All activities are based on projects and exams assigned throughout the course. Any required extra activities will be clearly explained in class.</p>   |
| <b>Safety</b>                                      | <p>This class does not have an experiment lab and therefore we will not be concerned about following specific safety strategies.</p>  |
| <b>Additional fees</b>                             | <p>There are no additional fees for this course.</p>  |
| <b>Additional Information</b>                      |   |
| <b>Important Note</b>                              | <p>If you have any concerns about this course and/or me, please contact me first. If I cannot resolve your issue, please contact Arlene Menezes in the CIT Department Office at 702-651-5976. You will be directed to the appropriate Program Director or the Department Chair. You will remain anonymous, if possible, and all communications will be strictly confidential. Please <b>DO NOT</b> wait until the last minute to make your concerns known to me and/or to the CIT Department.</p>   |
| <b>Software requirements</b>                       | <p>The Canvas Learning Management system can be run on most popular web browsers such as Internet Explorer, FireFox, Safari, etc. Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser. For more information, see <a href="#">Canvas's user guide</a>.</p> <p><b>*** Installing Oracle software is optional and the process will be discussed in class. We will use an online Oracle application that does not require software installation.</b></p>  |

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|  | <p><b>Printing @ CSN:</b> Printing in CSN classrooms, computer labs and libraries falls under the new Print Wise initiative, designed to help save natural and fiscal resources. Print Wise provides each CSN student with a \$10 credit toward printing at the start of each semester, which will provide for up to 200 black and white copies at 5¢ a page, or 40 color copies at 25¢ a page. After that, you may put money into your account online or at the CSN Cashier’s Office to purchase additional prints at the same rate. It is <b>your responsibility</b> to maintain your printing accounts to cover printing expenses during each semester. More information about the Print Wise system may be found at <a href="http://www.csn.edu/printwise">www.csn.edu/printwise</a>.</p>  |
| <p><b>Advising &amp; Coaching Services</b></p>                                    | <p>Advisor/Success Coaches help students assess academic strengths and limitations, learn academic success strategies, explore careers, declare a major, navigate the educational system, access campus and community resources, and connect to campus life. The department also manages the CSN Faculty E-Alert System assisting instructional staff by working with students on strategies and interventions that lead to successful course completion.</p> <p>Charleston Campus      Bldg. D – Student Services Area      651-7367<br/> North Las Vegas Campus      1100 Student Services Area      651-2626<br/> Henderson Campus      Bldg. B – Room 120      651-3103</p>  |
| <p><b>Counseling</b></p>  | <p>Academic Counseling: If you are a new student or have not declared your major, you will meet with a CSN success coach for all your advising needs, including course planning and career exploration services. Success coaches are located in student services areas and their contact information is available at <a href="#">Advising web site</a></p> <p>Students with DECLARED majors go to <a href="#">Advising web site</a> for instructions for scheduling an appointment with an academic counselor.</p>   |
| <p><b>Additional Notes</b></p>  | <p><b>My responsibilities:</b></p> <ol style="list-style-type: none"> <li>1. I will reply to your e-mail messages within one day. Replying to phone calls may take at most two days.</li> <li>2. I will make sure to accommodate all your learning needs and will answer your questions in a timely manner.</li> <li>3. I will try my best to resolve any issues.</li> <li>4. I will return feedback and your grade on assignments within one week of the due date.</li> </ol> <p><b>Your responsibilities:</b></p> <ol style="list-style-type: none"> <li>1. Stay active in classroom discussions and activities. Let me know if you find any discrepancies in the syllabus, course material, or activity due dates, as soon as possible.</li> <li>2. Watch the deadlines for exams and ask questions.</li> <li>3. Do the best you can in the class and don’t hesitate to ask for help.</li> <li>4. You will review my feedback on your assignments and will let me know</li> </ol> |

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|  | of any questions or concerns as soon as possible.  |
| <b>Withdrawal Policy - IMPORTANT DATES</b> | <b>IMPORTANT – I will NOT grant a W (withdrawal) once the official college deadline has passed. Please DO NOT ASK! More information here on the first day of class.</b>  |
| <b>CLASS POLICIES</b>                      | <p>This is an online section without any classroom meetings. All exams will be administered through the Canvas system and the eBook’s web site. All course material is available online in Canvas. While the design of this course allows flexibility in your scheduling, please realize that the deadlines are just as strict as any other course. You should check the calendar and discussion postings daily and allocate your time accordingly to complete the readings and to be prepared for the exams. Due dates will be strictly adhered to. You will use the mail and discussion features of Canvas to contact me or ask questions.</p> <p><b>A note on the on-learning environment:</b> To stay on task, I release chapter material and assignments on a timely basis. Exams can only be taken during the scheduled period. If you like to get this material earlier than the rest of the class, send me an e-mail message and I will give you access to the material. The links to assignments and exams will disappear after their respective due dates. Some students have complained that some links disappear from time to time. This is most likely due to system issues or incommutability with your web browser. Please send an e-mail message informing me about any links that have disappeared from your view. Online sections offer flexibility where you need to manage your time to achieve success. I will assign programming projects that will be graded, and you will have to take exams by specified due dates. <b>It is extremely simple to ignore due dates and fall behind which I hope we can seriously avoid!</b></p> <p>This is a single person class; meaning that just as in a normal classroom, you must turn in your own work. You are not allowed to collaborate or consult with anyone else while working on an exam. You are not allowed to collaborate on completing assignments. You should not be looking at each other’s code for assignments. You can freely discuss items in the general sense. Cheating in any form will not be tolerated.</p> <p>Finally, Internet access is your responsibility. This class can be accessed from any computer with Internet access anywhere in the world. Therefore, excuses such as “My computer is not working” or “My provider was down” are not acceptable. If you find yourself in a real jam, you may drive to any CSN site and use one of the computers in the CSN open computer labs. Of course, if there is a computer problem originating from CSN, then I will take corrective action. But in all other instances, it is your responsibility to ensure your own Internet access.</p> |
| <b>Software Lab</b>                        | The CIT department has a dedicated software lab at the three major campuses where students may drop in for additional help. You may just   |

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|   | drop in as you wish without making appointments.   |
| <b>Centers for Academic Success (CAS)</b> | Free one-on-one and drop-in tutoring is available in the Communication Centers, Math Resource Centers, Science Resource Centers, Tutorial Learning Centers (one-on-one tutoring), and Writing Centers. Tutors are available in most subjects to provide learning support and help students improve academic motivation and performance, enhance self-esteem and confidence as an independent learner, and achieve educational goals. Visit the <a href="#">CAS web site</a> for detailed information about all CAS programs and centers including locations, hours and more. |
| <b>EXCESS CREDIT FEE INFORMATION</b>      | Please visit the <a href="#">web site</a> for information about the excess credit fee applied in certain circumstances.  |
| <b>TITLE IX Resources</b>                 | More information is available at <a href="#">their web site</a> .  |
| <b>Objectionable materials</b>            | This class will use a discussion forum. Please refrain from posting any objectionable or private information in these forums. If such information is posted, I will try to immediately delete your post. Failure to comply with this policy may also lead to dismissal from the class and referral to college administration for further actions.  |

**We will have assignments due on a weekly basis. The due date for each assignment will be announced in Canvas and all assignments are delivered and submitted through Canvas. All homework assignments are assigned on any given Monday at 12:00 am and are due on any given Monday at 11:55 pm. The last homework assignment may have a non-Monday due date.**

**Additional NOTES:**

Exams can only be taken during the specified dates.

There are several homework assignments (includes Chapter quizzes) – 60%

Exam 1 – 20%

Exam 2 – 20%

Here is a formula for how your final grade is calculated:

(The average of homework assignments \* .6 + exam1 \* 0.2 + exam2 \* 0.2)

So, if Joe's average on homework assignments is 80 and he earns 75 points on exam1, 80 points on exam 2, what is his total score? What is his overall course grade?

Answer:  $(80 * .6 + 75 * .2 + 80 * .2) = 79$

Letter grade: C+

The CANVAS system's grade book will allow you to track your grade for each item.

**The following outlines the list of topics we cover in this course.** Exam dates will be available in Canvas on the first day of class.

| TOPICS  |
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| ✓ Syllabus and Introduction   |
| ✓ Getting to know the online environment  |
| ✓ Getting to know the eBook – Purchasing the textbook                                     |
| ✓ Chapter 1: Databases For An Information Rich, Connected World                           |
| ✓ Chapter 3: The Relational Data Model - Normalization                                    |
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| ✓ Chapter 3: The Relational Data Model - Normalization                                    |
| ✓ Chapter 4: Principles of Conceptual Database Design - ERD                               |
| ✓ Chapter 4: Principles of Conceptual Database Design- ERD                                |
| ✓ Chapter 2: Introduction to SQL  |
| ✓ Oracle SQL environment – SQL*Plus – Application Express                                 |
| ✓ <b>Downloading and installing Oracle (OPTIONAL)</b>                                     |
| ✓ Chapter 5: From Conceptual Design to Relational Implementation – Types of relationships |
| ✓ Chapter 5: From Conceptual Design to Relational Implementation – Types of relationships |
| ✓ Chapter 6: Advanced Data Manipulation With SQL  |
| ✓ Chapter 6: Advanced Data Manipulation With SQL  |
| ✓ Chapter 7: Data and Database Administration   |
| ✓ Chapter 7: Data and Database Administration   |
| ✓ Chapter 8: Database Applications in a Global World                                      |
| ✓ Chapter 8: Database Applications in a Global World                                      |