**COURSE SYLLABUS**

**WEBD 153 - Beginning Web Databases**

CRN# 53028

This is a hybrid course.

Online course work: <http://blackboard.sdccd.edu/>

Login = student ID

Password= your birth date mmddyyyy format

3 Units

Letter Grade or Credit/No Credit Option

**SPRING 2019: January 28-May 25**

**Professor Kristian Secor**| ksecor@sdccd.edu

Office hours G-324:

Monday 4-6PM

Wednesday 4-6PM

Thursday 4-6PM

**COURSE INFORMATION**

**Course Description**

This course provides a hands-on introduction to relational databases in a Web environment. Emphasis is placed on hand-coding Structured Query Language (SQL), specifically MySQL. Students master an open source database editor, XAMPP, to create and work with a database. Basic PHP: Hypertext Preprocessor (PHP) and Dreamweaver are used to bind data on a Web page. This course is designed for students studying web design and professionals updating their skills.

**Requisites**

**Advisory:**  
ENGL 048 with a grade of "C" or better, or equivalent or Assessment Skill Level R5  
and  
ENGL 049 with a grade of "C" or better, or equivalent or Assessment Skill Level W5  
and  
CBTE 101 with a grade of "C" or better, or equivalent  
and  
CBTE 114 with a grade of "C" or better, or equivalent  
and  
WEBD 162 with a grade of "C" or better, or equivalent  
or  
CBTE 162 with a grade of "C" or better, or equivalent  
or  
WEBD 165 with a grade of "C" or better, or equivalent  
or  
CBTE 165 with a grade of "C" or better, or equivalent

**NOTE**: An **Advisory** will not prevent you from enrolling in this course. It advises you of the skills and knowledge you need to have to be successful in this course. Email your professor if you have questions on this topic.

**Student Learning Outcomes**

Students will be able to create a database table.   
Students will analyze the purpose of a database table and create fields that convey the purpose.   
Students will create field labels that clearly communicate the field's purpose in the database.

**Student Learning Objectives**

Upon successful completion of the course the student will be able to:

* Explain the database structure and the role of MySQL.
* Describe relational databases in a Web environment that use MySQL and PHP and Dreamweaver.
* Write MySQL statements.
* Create, modify and delete databases.
* Create, modify and delete tables.
* Manipulate and retrieve data using MySQL statements.
* Manage different types of string and numeric data.
* Write optional select statements.
* Administer a database.
* Set up security on the database.
* Connect a MySQL database using basic PHP.
* Use bindings in Dreamweaver to link the data in a Web page.

**Outline of Topics**

The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

1. Databases and Database Management Systems
2. The SQL framework
3. Data-driven applications
4. Installing MySQL
5. MySQL directory structure
6. The relational model  
   A. Data normalization  
   B. Relationships  
   C. Data model  
   1. Entities  
   2. Normalizing data  
   3. Identifying relationships
7. Managing databases  
   A. Creating  
   B. Modifying  
   C. Deleting
8. Managing tables  
   A. Creating  
   B. Modifying  
   C. Deleting
9. Retrieving information  
   A. Show statements  
   B. Describe statements
10. Manipulating data  
    A. Inserting  
    B. Replacing  
    C. Updating a single table  
    D. Updating a joined table  
    E. Deleting
11. Retrieving data from a MySQL database  
    A. Selecting  
    B. Optional clauses of a select statement  
    1. Where clause  
    2. Group by clause  
    3. Having clause  
    4. Order by clause  
    5. Limit clause
12. Operators in an SQL statement
13. Managing different types of data  
    A. String functions  
    B. Numeric function
14. Administering MySQL
15. MySQL security
16. Introduction to optimizing performance
17. Basic PHP
18. Connecting MySQL using PHP  
    A. Connecting to a MySQL database  
    B. Retrieving data  
    1. Processing the result set  
    2. Manipulating data in PHP  
    3. Redirecting browsers
19. Introduction to binding data in Dreamweaver

**POLICES**

**Attendance Requirements**

It is your responsibility to drop and withdraw from this course. If you find you cannot complete this course, you will need to drop it in order to avoid getting an F. I will not drop or withdraw you if it appears to me that you have been active in the course. **To avoid being dropped, you need to work in the course at least once a week.** I do not sign late drop forms. Following is the stated District policy:

* It is the student's responsibility to drop all classes in which he/she is no longer participating.
* It is the instructor's discretion to withdraw a student after the add/drop deadline due to excessive absences.
* Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade in this class.
* Attendance: The final grade in this class will be affected by active participation, including attendance, as outlined in the **Weekly Assignments and Points**section of this syllabus, which lists the point value awarded for each week's in-class participation. I will give extra credit points for students who have <1 unexcused absence in the course.

**Statement of Retention**

You must attend at least one course **meeting activity prior** to ***February 5th***. This will demonstrate that you intend to complete the coursework.  If you do not attend the course regularly prior to this date, you will be **dropped** from the course for non-attendance and your seat will be opened up to allow someone on the waiting list to add the course by the last day to add.

Students, please discuss your plans to withdraw from class with me. There may be other options for you that may allow you to continue in class.

**Important Dates**

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| Start of the semester | Jan. 29 |
| Receive, process, and pay for add codes and to drop classes with no “W” recorded | Feb 9 |
| Refund deadline ‐ enrollment fees and/or non‐resident tuition | Feb 9 |
| Holiday - Lincoln Day  Holiday – Washington Day | Feb 16  Feb 19 |
| Last day to file a petition for Pass/No Pass grade option | Mar.15 |
| Withdrawal deadline - No drops accepted after this date; will receive a "W | Apr 13 |
| Last day to submit work; all work due at (**10:00 PM)** | May 26 |
| End of the semester | May 26 |

**Class Behavior and Student Code of Conduct**

Students are expected to respect and obey standards of student conduct while in class and on the campus. The student Code of Conduct, disciplinary procedure, and student due process (Policy 310, 3100.1 and 3100.2) can be found in the current college catalog in the section Academic Information and Regulations and at the office of the Dean of Student Affairs. Charges of misconduct and disciplinary sanctions may be imposed upon students who violate these standards of conduct or provisions of college regulations.

**Cheating and plagiarism**: Students are expected to be honest and ethical at all times in the pursuit of academic goals. Students who are found to be in violation of Administrative Procedure 3100.3 Honest Academic Conduct, will receive a grade of zero on the assignment, quiz, or exam in question and may be referred for disciplinary action in accordance with Administrative Procedure 3100.2, Student Disciplinary Procedures.

**My philosophy as your instructor:**  
Learning is a community endeavor. There is an amazing amount of skill and knowledge in the class as a whole that one instructor cannot hope to duplicate. Students + teacher, blended together, we will help one another to build a strong learning foundation in our classroom.   
  
**How we will achieve this together:**

* Ask for help; don't be hesitant.
* Share your skills and knowledge; you reinforce them when you explain a concept to someone else.
* Help your classmates; this clarifies and solidifies knowledge.
* Brainstorm solutions together; two brains are better than one.
* Strive to make yourself a good and available resource for others in our community-oriented classroom.
* And lastly, *I will* utilize your talents and assistance in the online classroom.

**Disabled Students Programs and Services**

Students with disabilities who may need academic accommodations should discuss options with the Disabled Students Program and Services (DSPS) immediately.

Call or visit Disabled Students Program and Services (DSPS) located on the San Diego Mesa College campus. Contact information is listed on the DSPS webpage: <http://www.sdmesa.edu/dsps/>

**Textbook and Software**

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| **REQUIRED:** [[ook cover](http://www.amazon.com/PHP-MySQL-Dynamic-Web-Sites/dp/0321784073/ref=sr_1_1?s=books&ie=UTF8&qid=1374304868&sr=1-1&keywords=PHP+and+MySQL+for+Dynamic+Web+Sites)](http://www.amazon.com/PHP-MySQL-Dynamic-Web-Sites/dp/0321784073/ref=sr_1_1?s=books&ie=UTF8&qid=1374304868&sr=1-1&keywords=PHP+and+MySQL+for+Dynamic+Web+Sites)Textbook:[**PHP and MySQL for Dynamic Web Sites**](http://www.amazon.com/PHP-MySQL-Dynamic-Web-Sites/dp/0321784073/ref=sr_1_1?s=books&ie=UTF8&qid=1374304868&sr=1-1&keywords=PHP+and+MySQL+for+Dynamic+Web+Sites) **Fourth Edition** ISBN-13:978-0-321-78407-0 |  |

**Supplies:**  
1. USB drive  
2. Access to the internet  
3. Software for writing HTML (Dreamweaver, Notepad++, Eclipse, NetBeans), MySQL, and PHP (XAMPP, MAMP, or USB Webserver)

Buy your textbook anywhere that meets your needs. Check the book name and ISBN numbers on the sites below carefully as publishers often change their links as new books are added to their stock; since the prices change periodically, carefully check the price online.

* [Mesa Online bookstore](http://www.bookstore.sdccd.edu/mesa/) or purchase it at the Mesa bookstore
* [Amazon](http://www.amazon.com/PHP-MySQL-Dynamic-Web-Sites/dp/0321784073/ref=sr_1_1?ie=UTF8&qid=1356149396&sr=8-1&keywords=PHP+and+MySQL+for+Dynamic+Web+Sites+Fourth+Edition) about $25.00 (ebook is also available)

**Software: You can use any editor you like**.

NOTE: There are minor differences between the PC and the Mac version.

You can **purchase your software** anywhere. (Prices and software packages subject to change. Follow the links to confirm the current prices and packaged software configurations.)

**The Foundation for California Community Colleges**The Foundation for the California Community Colleges has negotiated a special price for students, for both Mac and PC. Select the software package that needs your educational needs; pricing and software offerings can change at anytime [CollegeSoftware.org](http://www.foundationccc.org/CollegeBuys/CollegeBuysHome/tabid/484/Default.aspx).

**Mesa College Bookstore**<http://www.bookstore.sdccd.edu/mesa/> has a variety of software. Call the bookstore, visit their website, or stop by to see their current selection.

Make sure that any software you purchase will work with your computer and operating system. Shop around for the service and price that best matches your needs. Links and pricing may change. If you notice a change before I do, please let me know.

**Blackboard Course Management System**

**Hardware and Software Requirements**

* Link to SDCCD Online's [Suggested hardware and software requirements](http://www.sdccdonline.net/students/training/) as well as other useful links
* Acrobat Reader [(click here for a free download)](http://www.adobe.com/products/acrobat/readstep2.html)
* Flash Player [(click here to download)](http://www.macromedia.com/shockwave/download/download.cgi?P1_Prod_Version=ShockwaveFlash)
* QuickTime Player [(click here to download)](http://www.apple.com/quicktime/download/win.html)

Students who do not have access to the equipment, software, and services necessary to take this course at home may use the resources at Mesa College. Computers are available for use in the LRC or classroom K404. Local public libraries may also have these resources available. [Map](http://intergate.sdmesa.sdccd.cc.ca.us/image_maps/campus-map.htm) of the Mesa College campus

**Blackboard Orientation Material and Help Desk**

You are expected to know how to use the Blackboard system.

* Some orientation material can be found in our Blackboard course after logging in.
* For additional training material, login instructions, student orientations, and support information please visit <http://www.sdccdonline.net/students/training/>.

**Help Desk**

Blackboard technical support is available to students 24/7. If you are having a technical problem with Blackboard, please reach out for help. Call the Help Desk via this toll-free phone **866-271-8794**.

* To get technical support using your online course.
* If you are having trouble navigating and finding the assignments, discussions, etc.
* To get help zipping folders and uploading them to the assignment dropbox.

You can also visit them online at <https://www.sdccdonline.net/help> for assistance with any technical issue that you experience with Blackboard and to view the FAQ's.

**Internet Access**

You will also need to have an ISP (Internet Service Provider) in order to fulfill the hybrid portion of this course online.

**NOTE:**Students have had problems accessing their course web site and their **system locking up when they use AOL**—if possible, avoid AOL.

**Course Work and Evaluation**

1. Print out this syllabus and read it.
2. You may order your textbook for this course online or buy it in the Mesa College Bookstore.  For complete ordering directions, read the section in this syllabus on textbook and ordering Information.
3. Before starting work on this course, study the**Blackboard Learn 9.1 tutorials,** on the [Get Ready for Online Learning Success! page](http://www.sdccdonline.net/students/training/), which show you how to use the Blackboard tools so that you can successfully complete this online course.
4. To**access all the work for each week**, click on the **Lessons** link. The activities and assignments that you will be turning in to be graded are linked on the weekly **Lessons** pages and are listed in this syllabus.
5. If any of the assignmentsor graded activities are missing after the deadline submission I will take off 1 point per day up until a week late. After one week late, assignments will not be accepted unless I personally approve it. You can email me at ksecor@sdccd.edu
6. Please allow a **minimum of 72 hours** for assignments and tests to be corrected, a response to be sent to you, or your grade to be entered into the grade log.
7. Any changes to this syllabus will be posted.
8. Be sure to check both your E-mail and the Discussion Board frequently.
9. Except as discussed below, no work for this class will be accepted after 10:00pm on the last day for the semester.
10. Students who remain enrolled in this class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade (A, B, C, D, or F) in the class.
11. A temporary grade of Incomplete ("I") may be assigned in very rare cases. Specifically, to be eligible for a grade of “I” a student must:
    1. request an Incomplete grade only after the published withdrawal deadline for the course. (Before that deadline the student should withdraw from the class with a “W.”)
    2. have achieved at least a “C” average for all work and tests due before the withdrawal deadline. (Missing work and tests that were due before the withdrawal deadline will be counted as “F” when determining this average.)
    3. provide written documentation by a police report or a statement from a medical doctor on official stationary to verify one or more of the following:
       1. a serious disaster, such as a major fire, flood, or earthquake.
       2. a death in the student’s immediate family.
       3. a very serious medical issue with respect to the student.

If a grade of “I” is assigned, it must be cleared within one year or less.  If the “I” is not cleared within the allowed time, it will change to the grade that would have been assigned at the normal end-date of the class—based only upon  the work that had actually been submitted by the end date of the course.

A grade of “I” should be viewed primarily as a humanitarian procedure that provides an opportunity for a good student to complete all the course requirements and to achieve the same grade that would have been assigned had a tragedy not occurred.

A grade of “I” is not appropriate if used merely to provide additional time for a student to make up usual coursework that is overdue, incomplete, or unsatisfactory.

**ASSIGNMENTS AND GRADING SCALE**

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| |  |  |  |  | | --- | --- | --- | --- | | **WEEK** | **TOPICS** | **ACTIVITIES AND ASSESSMENTS** | **POINTS** | | **Week 1** | | | | |  | Introductions and orientation | Read the syllabus |  | | Go through the **Student Tutorials**on how to use the features of your online course. You will see the link on the homepage. | | Diving In and Creating a Work Environment | **PHP AND MYSQL: Chapter 1: Introduction to PHP** |  | | Discussion board - Introductions | 10 | | Successful installation of XAMPP | 10 | | **Week 2** | | | | |  | **Chapter 2:** **Creating Dynamic WebSites** | Assignment 2:  Quiz 1 | 20  10 | |  |  |  |  | | **Week 3** | | | | |  | **Chapter 3:** **Creating Dynamic WebSites** | Assignment 3:  Quiz 2 | 20  10 | | **Week 4** | | | | |  | **Chapter 4: Introduction to MySQL** | Assignment 4:  Quiz 3 | 20  10 | | **Week 5** | | | | |  | **Chapter 5: Introduction to SQL** | Assignment 5:  Quiz 4 | 20  10 | | **Week 6** | | | | |  | **Ch. 6 Database Design** | Assignment 6:  Quiz 5 | 20  10 | | **Week 7** | | | | |  | **Chapter 7: Advanced SQL and MySQL** | Assignment 7:  Quiz 6 | 20  10 | | **Week 8** | | | | |  | **Chapter 8: Error handling and Debugging** | Assignment 8:  Quiz 7 | 20  10 | | **Week 9** | | | | |  | **Chapter 9: Using PHP with MySql** | Assignment 9  Quiz 8 | 20  10 | | **Week 10** | | | | |  | **Chapter 10: Using PHP with Common Programming Techniques** | Assignment 10  Quiz 9 | 20  10 | | **Week 11** | | | | |  | **Chapter 11: Web Application Development** | Assignment 11: | 20 | | **Week 12** | | | | |  | **Ch. 12 Cookies and Sessions** | Assignment 12: | 20 | | **Week 13** | | | | |  | **Ch. 13 Security Methods** | Assignment 13: | 20 | | **Week 14** | | | | |  | **Chapter 14: Perl Compatible REGEX** | **WORK ON FINAL PROJECT**  Assignment 14 (Add a search to your Project) | 20 | | **Week 15** | | | | |  | **Chapter 16: An OOP Primer** | **WORK ON FINAL PROJECT** |  | | **Final's Week** | | | | |  |  | **FINAL PROJECT DUE**  **TOTAL POINTS** | 50   420 |   A = 90-100% B = 80-89% C = 70-79% D= 60-69% F = 0-59% Your grade will be based on your assignments, quizzes, and discussion postings. The final grade in this class will be affected by active participation in the discussion postings.  **I reserve the right to change the syllabus as the course progresses.** |
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