

Objective: you will design a database and create a web form that displays data from the database.

Example: recreate of the online Course Schedule pages at CSU.

https://academics.columbusstate.edu/classes/class_search.php

Functionality:

- give the user three choices of semesters. Right now we have access to three semesters in 2016
- when the user chooses a semester, display the courses for that semester in this format:

CPSC 3105						
Digital Multimedia Development						
Credits: 3						
<i>Prerequisite:</i> CPSC 2125 with a grade of "C" or better. This course teaches the student digital design principles and techniques. Students will learn how to create digital multimedia that can be used in software applications and Web sites. As part of this, students will develop an understanding of digital image theories, develop an understanding of how to create digital multimedia, analyze the needs associated with creating this multimedia, become familiar with the digital multimedia development process and available tools, and then implement this process while applying their knowledge to create a working, digital multimedia application or Web site.						
CRN	Section	Day	Time	Location	Instructor	Begin/End Dates
20501	1	MW	04:30 PM - 05:45 PM	CCT-407	Zanev, Vladimir S	01/11 - 05/02

Part 1: database design

Use Visio or an online modeling tool (LucidCharts) to create an ERD diagram for your database.

https://www.lucidchart.com/pages/tour/ER_diagram_tool

Call your database *Schedule_DB*.

Plan your design:

- Decide how many tables will you need to implement the functionality above
- Design tables with PKID
- What fields belong in each table
- Pay attention to data types and field sizes

Use MySQL to create the database and the tables. Create a script to create the database, tables and user/privileges.

Populate the tables with a minimum of data, for example CPSC1301, 1302, 2108 courses and two MATH courses per semester.

Modify your SQL script: add code to insert data into the tables.

Part 2: web form

Create a web form that lets a user pick a semester, then a subject. Your application should display the classes for that subject in that semester.

Create a style sheet to implement an attractive and user-friendly design. You may use the Bootstrap framework.

Deliverables:

1. Database diagram (Visio or Excel)
2. SQL script to create and populate database
3. PHP project