



## MASTER COURSE OUTLINE

A. CPRO 1790 Intro to Web Database with MySQL

B. COURSE DESCRIPTION:

This introductory course explores the basic concepts and techniques of using Structured Query Language (SQL). Every business has a database and SQL is the backbone for accessing the data. This is an introductory course that exposes students to designing, building and using databases with MySQL. Topics covered also include SQL commands, single and multiple-table queries, administration, importing and exporting data. Hands-on labs and exercises will be used throughout the course.

Intro to Web Database is the first of a two-course sequence. This course is part of the Computer Technology program which is an accredited program in World Organization of Webmaster (WOW) Professional Academy.  
**(3 Cr – 3 lect, 0 lab)**

C. **\*\*Core Theme: Critical Thinking**

D. MAJOR CONTENT AREAS:

- Database concepts
- Introduction to SQL
- Primary and foreign keys
- Database design fundamentals
- Database creation
- Table creation
- Data types
- Single-table queries and multiple-table queries
- Updating data
- Database administration
- Importing and exporting data
- Install and use MySQL software tools

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
** <u>Critical Thinking</u>	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of	1. query a database using simple and compound conditions, computed columns, the SQL BETWEEN,

	possible bias in the information selected.	LIKE and IN operators, SQL functions, and nested queries.
<u>CS</u>	apply the SQL language to query a database.	1. retrieve the requested information from the database by constructing the queries using proper SQL syntax.
<u>CS</u>	understand how to design a database table and create records.	2. demonstrate the correct MySQL commands in the MySQL console environment to create a new database, table, and records.
<u>CS</u>	apply SQL language to manipulate a database.	1. modify the contents of the database by executing valid SQL commands.
<u>CS</u>	understand the proper procedure to add fields to a table by following the proper data type definitions.	1. demonstrate how to add fields to a table using the correct data types.
<u>CS</u>	understand the steps required to install MySQL.	1. install MySQL software.
<u>CS</u>	apply the SQL language to query a database.	1. retrieve the requested information from the database by constructing the queries using proper SQL syntax.

F. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request. Software requirements: MySQL as part of all in one packages like WAMP/MAMP, or XXAMP.

G. COURSE CODING INFORMATION: Course Code T/Class Maximum 30; Letter Grade

Revision date: 01/15/13; 4/3/18

AASC Approval date: 5/8/18

<b>*Riverland Community College Disciplines</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

<b>**Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>

Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

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