CTI 110 Web, Programming, and Database Foundations

Course Calendar: Fall 2018

This schedule is a suggested outline and may be deviated from, as the instructor deems necessary. It is up to the individual student to obtain changes or deviations from the schedule or course materials. All work is due promptly by 11:59pm on the due date unless otherwise stated. Late work is subject to a 30% penalty.

| **Module** | **Topic** | **Learning Resources (Text, video, etc.)** | **Activities and Assignments** | **Due Dates** |
| --- | --- | --- | --- | --- |
| **Module:** Start here | Introduction DB post  Course calendar | N/A | N/A | 8/30 |
| **Module 1 :** Database | Database Fundamentals | Read Chapter 7: Getting Started  Read Chapter 8: The Relational Model | DHW1: Database Essentials  DHW2: Creating tables  DWH3: Working with Tables and Records | 8/29 |
| **Module 2 :** Python one | Introduction to Programming | Read Chapter 1  Video: Using Interactive Mode in IDLE | P1T1: Hello World  P1HW1: Binary | 09/05 |
| **Module 3 :** Python two | Input, Processing and Output | Read Chapter 2  Video: Using the print function  Video: Reading input from the keyboard | P2T1: Sales Prediction  P2HW1: Celsius Fahrenheit  P2HW2: Male Female Percentage  P2LAB: GitHub | 09/10 |
| **Module 4 :** Python three | Decision Structures | Read Chapter 3  Video: The if statement  Video: The if-else statement | P3T1: Area of a Rectangle  P3HW1: Roman Numerals  P3HW2: Shipping Charges  P3LAB: Debugging | 09/17 |
| **Module 5 :** Python four | Repetition Structures | Read Chapter 4  Video: The while loop  Video: The for loop | P4T1: Turtle Graphics  P4T2: Bug Collector  P4HW1: Budget Analysis  P4HW2: Celsius to Fahrenheit Table  P4HW3: Tuition Increase  P4LAB: Nested Loops | 09/24 |
| **Module 6 :** Python five | Functions | Read Chapter 5 | P5T1: Kilometer Converter  P5T2: Feet to Inches  P5HW1: Prime Numbers  P5HW2: Rock, Paper, Scissors | 10/01 |
| **Module 7:** Web | Web Development with HTML | Read Chapter 10, 11 and 12 | WT1: Simple Web Site WHW1: Java House – Home Page  WHW2: Java House – Menu Page  WLAB: Website Project Proposal | 10/08 |
| **Module 8: Cloud Computing** | Introduction to Cloud Computing | TBA | CCLAB: AWS Account Creation | 10/15 |
| **Module: Final Project** | Final Project |  | PROJ: Final Project | 10/15 |