**CSE 310 – Applied Programming**

**W01-Prove: Create Course Plan**

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| **Date:** | 9/20/24 |
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1. After looking at the Module Description document in I-Learn, select six modules that you want to complete during this course. You cannot repeat a module. You will be responsible for learning the material and creating software to demonstrate what you learned. You can change your mind later in the course based on your experiences. You should not select a module that you have already used before. Mark only one “X” in each of the five columns.

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| **Modules** | **Module**  **#1** | **Module**  **#2** | **Module**  **#3** | **Module**  **#4** | **Module**  **#5** | **Module**  **#6** |
| Cloud Databases |  |  | x |  |  |  |
| Data Analysis |  | x |  |  |  |  |
| Game Framework |  |  |  |  |  |  |
| GIS Mapping |  |  |  |  |  |  |
| Mobile App |  |  |  | x |  |  |
| Networking |  |  |  |  |  |  |
| SQL Relational Databases | x |  |  |  |  |  |
| Web Apps |  |  |  |  | x |  |
| Language – C++ |  |  |  |  |  | x |
| Language – Java |  |  |  |  |  |  |
| Language – Kotlin |  |  |  |  |  |  |
| Language – R |  |  |  |  |  |  |
| Language – Erlang |  |  |  |  |  |  |
| Language – JavaScript |  |  |  |  |  |  |
| Language – C# |  |  |  |  |  |  |
| Language - TypeScript |  |  |  |  |  |  |
| Language – Rust |  |  |  |  |  |  |
| Choose Your Own Adventure |  |  |  |  |  |  |

Please note that the “Choose Your Own Adventure” cannot be done during Module #1 or #2. Please refer to the Module Description document in I-Learn for more information.

1. Complete the following learning skill survey:

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| --- | --- |
| **Learning Skill** | **Ranking**  **1 = I don’t do this**  **2 = I do this sometimes**  **3 = I do this frequently** |
| **RESEARCH** |  |
| **I use multiple sources of information.** | 3 |
| **I document what I am learning.** | 2 |
| **I prepare well-thought-out questions.** | 2 |
| **I use the scientific method (research, hypothesis, experiment, and conclusion) to solve computing problems.** | 2 |
| **I share what I am learning with others (i.e. collaboration).** |  |
| **TIME MANAGEMENT** |  |
| **I manage my time between all my responsibilities.** | 3 |
| **I effectively estimate task duration for assignments and projects based on my previous performance.** | 2 |
| **I create a schedule for all assignments and projects.** | 3 |
| **RISK MANAGEMENT** |  |
| **I always start with identifying what I do not know.** | 3 |
| **I effectively identify what could fail based on my previous experiences.** | 2 |
| **I create mitigation plans for risks related to missing knowledge or potential failures.** | 1 |
| **CONTINUOUS IMPROVEMENT** |  |
| **I honestly identify the mistakes I have made in my work.** | 2 |
| **I develop improvement plans to support future assignments and projects.** | 2 |
| **I am driven by a vision of whom I can become by the creation of goals.** | 3 |

1. Based on your responses in the survey above, write a plan below to improve one behavior starting at the beginning of this course.

I need to be better at estimating the amount of time that it takes me to complete a project as well as come up with mitigation plans for filling in the gaps in my knowledge. I have my life very carefully planned, but often I get stuck on syntax or a bit of code that doesn’t work and I can spend hours trying to problem solve. I often don’t have those hours to spend. My goal this semester is to get better about quickly trouble shooting and researching why my code does not work.