**CSE 310 – Applied Programming**

**W01-Prove: Create Course Plan**

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| **Name:** | Dallin Olson |
| **Date:** | 1/6/2023 |
| **Teacher:** | Ephraim Kunz |

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 |  |  |  |  |  |  |
| Data Analysis |  |  |  |  |  |  |
| Game Framework |  |  |  |  |  | X |
| GIS Mapping |  |  |  |  |  |  |
| Mobile App |  |  |  |  | X |  |
| Networking |  |  |  | X |  |  |
| SQL Relational Databases |  |  |  |  |  |  |
| Web Apps |  |  |  |  |  |  |
| Language – C++ |  |  |  |  |  |  |
| Language – Java |  | X |  |  |  |  |
| Language – Kotlin |  |  |  |  |  |  |
| Language – Erlang |  |  |  |  |  |  |
| Language – Rust | X |  |  |  |  |  |
| Choose Your Own Adventure |  |  | X |  |  |  |

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.** | 2 |
| **I document what I am learning.** | 1 |
| **I prepare well-thought-out questions.** | 2 |
| **I use the scientific method (research, hypothesis, experiment, and conclusion) to solve computing problems.** | 3 |
| **I share what I am learning with others (i.e. collaboration).** | 1 |
| **TIME MANAGEMENT** |  |
| **I manage my time between all my responsibilities.** | 2 |
| **I effectively estimate task duration for assignments and projects based on my previous performance.** | 1 |
| **I create a schedule for all assignments and projects.** | 2 |
| **RISK MANAGEMENT** |  |
| **I always start with identifying what I do not know.** | 3 |
| **I effectively identify what could fail based on my previous experiences.** | 3 |
| **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.** | 3 |
| **I develop improvement plans to support future assignments and projects.** | 1 |
| **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.

My primary focus will be on estimating task duration for assignments and creating mitigation plans for risks relating to missing knowledge or potential failures. I consistently underestimate the time it will take me to complete a project. This occurs outside of school related assignments as well. However, I am good at prioritizing projects based on their complexity and due date. I will begin by taking my current estimates and setting aside three times as much time. I will document my original estimation, the adjusted estimation and the actual time it takes. This will help my ability to give accurate estimates of how long it will take to complete a project. To mitigate risk caused by a lack of knowledge I need to implement a top-down design process to go over everything required for a project to see if there I need to do more research on a particular aspect.