**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Abi Priebe |
| **Date:** | 1/12/21 |
| **Teacher:** | Bro. Macbeth |
| **Module # (1-5):** | 1 |

1. Identify which module you have selected to work on. Place an “X” under the “Selected Module” column.

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| **Modules** | **Selected Module** |
| Cloud Databases |  |
| Data Analysis | x |
| Game Platform |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ |  |
| Language – Java |  |
| Language – Kotlin |  |
| Language – Python |  |
| Language – Rust |  |
| Choose Your Own Adventure |  |

1. At a high level, describe the software you plan to create that will fulfill the requirements of this module.

I am going to use pandas in Python to do some data analyses on a data set I found about how students perform on exams in relation to other aspects of their life such as gender, ethnicity, parental level of education, etc. I will build my code in Python, but I will also display and explain my results in a PDF.

The first question I hope to answer by doing this analysis is if there I one student that excels in more than one category. I may even take it a step further and see if there is a student that seems to stand out against the others as the best.

Another question I plan to answer is to see what kind of an effect a parent’s education has on their child’s exam performance.

1. Identify at least two risks that you feel will make it difficult to succeed on this module. Identify an action plan to overcome each of these risks.

I am concerned about getting my dataset into Python. I have found a few materials that I think will be useful, but I think it will take a lot of troubleshooting.

I also am unsure of the best way to go about answering my questions, particularly my first question. In my opinion, there are a lot of factors that go into determining who the best student is. More than simply who gets the highest test scores. I hope I can uncover some telling information about what makes a great student.

1. Create a schedule for yourself to complete this module in the two weeks required. The schedule should include milestones with dates. Milestones are activities that you need to complete related to research, implementation, testing, and documentation.

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| Date | What I Will Have Done |
| Jan. 16 | Go through pandas tutorials, finalize research questions and plans to answer them |
| Jan. 19 | Complete analysis for question 1 |
| Jan. 22 | Complete Analysis for question 2 |
| Jan. 23 | Module #1 is due |

\*Add in a third question of I am on top of it!!

\*Export everything to the PDF as I go.