Curriculum Helper Project

# Testing Materials Report

03/29/2025

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## Introduction

The purpose of the Testing Materials report is to document the cases we used to test each major feature of the curriculum helper to demonstrate the effectiveness of this project using real-world examples. Each test case includes a unofficial transcript PDF from one of the group members as an input file, output files from using the given input, and a reflection of the test results.

## Test Case #1: Samuel Jackson (samich915)

### Case Inputs

The primary input for this test case is Samuel Jackson’s Spring 2025 transcript. It should include every class he has taken, whether it is in-progress or not.

### Expected Outputs

The expected output should be a flowchart with every class from his transcript that applies to EE major graduation, which should be generated from the Progress Tracking page. He still has some courses to take, so it should suggest courses he needs and those courses should properly be shown in the schedule selection menu.

### Case Outputs

#### Progress Tracking

A screenshot of a computer

AI-generated content may be incorrect.

#### Flowchart

A screenshot of a computer

AI-generated content may be incorrect.

#### Next Semester Schedule

A screenshot of a computer program

AI-generated content may be incorrect.

### Reflection

The transcript parser appeared to not properly process Samuel’s first semester as it was formatted slightly different, causing the flowchart to categorize it as an “Unknown” semester and placing it at the bottom when it should be at the top. The rest of the program, including the planning tools and the flowchart maker, appeared to run smoothly.

## Test Case #2: Graham Taylor (GTA69420)

### Case Inputs

The primary input for this test case is Graham Taylor’s Spring 2025 transcript. It should include every class he has taken, whether it is in-progress or not.

### Expected Outputs

The expected output should be a flowchart with every class from his transcript that applies to EE major graduation, which should be generated from the Progress Tracking page. He still has some courses to take, so it should suggest courses he needs and those courses should properly be shown in the schedule selection menu.

### Case Outputs

#### Progress Tracking

A screenshot of a computer

AI-generated content may be incorrect.

#### Flowchart

A screenshot of a computer

AI-generated content may be incorrect.

#### Next Semester Schedule

A screenshot of a computer error

AI-generated content may be incorrect.

### Reflection

It suggested a necessary credit that he had not taken yet (ENC 3246), as well as plenty of electives. However, there were many redundant courses recommended, such as Engineering Calculus 1 when he had already taken Calculus 1.

## Test Case #3: Alexander Lee (alee714)

### Case Inputs

The primary input for this test case is Alexander Lee’s Spring 2025 transcript. It should include every class he has taken, whether it is in-progress or not.

### Expected Outputs

The expected output should be a flowchart with every class from his transcript that applies to EE major graduation, which should be generated from the Progress Tracking page. It should be longer than the usual flowchart as he dual-enrolled for several years prior to focusing on Electrical Engineering.

### Case Outputs

#### Progress Tracking

A screenshot of a computer

AI-generated content may be incorrect.

#### Flowchart

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

### Reflection

The Transcript Parser read 106 credits, which included all of his classes. However, it omitted the IDS 4949 course credits, which was used to gain credits for a Co-op experience.

The flowchart is long, and only included some of the AP credits he gained in high school, notably including Computer Science A but not including Calculus AB.