Project Plan

## 1.8 Spring Project Plan

December 2021

-Buy all materials necessary to complete the project

-Advisor Meeting During Winter Break (Finalize all design details)

-Finish ideation of integration of wings/fuselage and tail/fuselage

-CAD final wings/tail with integration method, controls, wing tips, and flaps

Jan 5, 2022 - Classes Begin

Jan 6, 2022 – Final Design Check (Tolerances, Dimensions, Sizing, and CADs are all complete and ready for printing)

Jan 7, 2022- Advisor Meeting with Dr. Ali

Jan 8, 2022 – Printing Begins with Wing

Jan 17, 2022- Martin Luther King (No Classes)

Jan 10-14, 2022- Initial Printing of Wing Sections (Begin testing the attachment of wing sections)

Jan 14- 17, 2022 – Flaps and Hoerner Wing Tips Sections Printing   
Jan 17-21, 2022 – Test Connection Method, Strength/Failure, Run Spar through first wing

Jan 22, 2022- First Wing Complete

Jan 24-28, 2022 – Repeat all steps for wing #2

**Milestone 1: Finish All Wing Printing and Testing**

Feb 1-7, 2022 - Begin Tail Printing (Horizontal & Vertical)

Feb 7-14, 2022 – Begin Attachment of Tail Sections (Includes testing of top three attachment ideas)

Feb 16-23, 2022 – Strength/Failure Testing of Tail

**Milestone 2: Finish All Tail Printing and Testing**

March 1-7, 2022- Inner Configuration of Wings/Tail (Wiring)

March 7-14, 2022 – Attach Wings/Tail to Fuselage (Final Assembly)

March 7-14, 2022 – Placement and Testing of Servo Motors

March 14- 20, 2022 – Emergency Week for Printing

March 21, 2022 – Test Day + Printing of Sized Down Model (Backup)

**Milestone 3: Assembly and Printing is Complete**

March 14 – March 18, 2022 - Spring Break No Classes

**April 1, 2022 - Engineering Design Day**

April 22, 2022 - Last Day of Class

April 25 – 28, 2022 - Finals

April 29, 2022 – Semester Ends

April 30, 2022 - Graduation