

Florida Semester Timeline 2020-2021

Fall Semester:

8/19/20 – Send Design & Prototype Challenge list to teachers

9/16/20 – SCHS Video Visit

9/17/20 – PBMHS Video Visit

Design & Prototype Information to Teachers and students. Research links provided on website (www.hunchdesign.com) about the International Space Station, Life living on the space station and in microgravity, and the physics of microgravity. Take notes in your engineering notebook over what you have learned. Review the project power point and begin determining which projects interest you.

Define your problem, research and take notes on those areas.

9/18/20 – Due date for project selections and defining information. Items due are:

- Project Identification
- List criteria and constraints
- Fill out “Title”, “Define the Problem”, and “Identify Criteria & Constraints” pages of your presentation

9/21/20 to 9/25/20 –

Research your project, brainstorm ideas, and select solution from ideas generated. Develop and propose possible design solutions and choose among those solutions.

9/25/20 – Due date for “Research”, “Brainstorm”, “Propose Solution” pages of your presentation

9/28/20 to 10/2/20 –

Generate sketches and/or 3D CAD drawings of your solution. Update your power point with CAD models/drawings that include dimensions. Also, start building a simple prototype. Generate documentation that explains how your solution works and why it might be a good solution.

9/30/20 – SCHS Video Visit

10/1/20 – PBMHS Video Visit

10/2/20 – Due date for 3D CAD drawings or sketches and “Implement Solution” page of your presentation. Add screen shot of your sketches or 3D CAD models. Also the due date for the “Communicate the Process” page of your presentation. Add details about how your solution works, how to operate it, how to use it, etc.

10/5/20 to 10/9/20 –

- Build 1st prototype and add the “Make your Model” page to your presentation
- Generate one page Project Summary
 - Project Title
 - School Name
 - Teacher Name
 - Student Names
 - Brief description of solution
 - Photos of solution
- update all pages of your presentation.
 - Add pictures, screen shots of 3D CAD drawings, etc.
 - Make sure all information is up to date and ready to present

10/7/20 – SCHS Video Visit
10/8/20 – PBMHS Video Visit

10/9/20 – Due date for first prototype, presentation, and one page Project Summary Sheet

10/14/20 – SCHS VIDEO Preliminary Design Reviews

10/15/20 – PBMHS VIDEO Preliminary Design Review

10/21/20 – SCHS Video Visit
10/22/20 – PBMHS Video Visit

10/23/20 – Due date for the “Evaluate the Solution” and “redesign” pages of your presentation.

- These slides should include details of feedback from Preliminary Design Review and any other ideas or changes you want to incorporate into your design

10/26/20 to 10/30/20 Generate new CAD drawings that capture any design changes

10/28/20 – SCHS Video Visit
10/29/20 – PBMHS Video Visit

10/30/20 – Due date for updated 3D CAD drawings or sketches, and the “Refine the Design” page of your presentation.

11/2/20 to 11/6/20 –

- build period for updated prototype
- detail operation of prototype
- One page Project Summary Sheet needs to include the following information:
 - Project Title
 - School Name
 - Teacher Name
 - Student Names
 - Brief description of solution
 - Photos of solution
- Finalize presentations. Detail prototype descriptions and how your solution works. Be sure to highlight how your solution meets criteria and constraints.

11/4/20 – SCHS Video Visit
11/5/20 – PBMHS Video Visit

11/6/20 – Due date for Updated Prototype, presentation, and Project Summary Sheet.

11/10/20 – SCHS Critical Design Reviews (Tuesday)

11/12/20 – PBMHS Critical Design Reviews (Thursday)

11/18/20 – SCHS Video Visit – wrap up project
11/19/20 – PBMHS Video Visit – wrap up project

Spring Semester:

1/6/21 – Send Design & Prototype Challenge list to teachers

1/13/21 – SCHS Video Visit

1/14/21 – PBMHS Video Visit

Design & Prototype Information to Teachers and students. Research links provided on website (www.hunchdesign.com) about the International Space Station, Life living on the space station and in microgravity, and the physics of microgravity. Take notes in your engineering notebook over what you have learned. Review the project power point and begin determining which projects interest you.

Define your problem, research and take notes on those areas.

1/15/21 – Due date for project selections and defining information. Items due are:

- Project Identification
- List criteria and constraints
- Fill out “Title”, “Define the Problem”, and “Identify Criteria & Constraints” pages of your presentation

1/18/21 to 1/22/21 –

Research your project, brainstorm ideas, and select solution from ideas generated. Develop and propose possible design solutions and choose among those solutions.

1/20/21 – SCHS Video Visit

1/21/21 – PBMHS Video Visit

1/22/21 – Due date for “Research”, “Brainstorm”, “Propose Solution” pages of your presentation

1/25/20 to 1/29/21 –

Generate sketches and/or 3D CAD drawings of your solution. Update your power point with CAD models/drawings that include dimensions. Also, start building a simple prototype. Generate documentation that explains how your solution works and why it might be a good solution.

1/27/21 – SCHS Video Visit

1/28/21 – PBMHS Video Visit

1/29/21 – Due date for 3D CAD drawings or sketches and “Implement Solution” page of your presentation. Add screen shot of your sketches or 3D CAD models. Also the due date for the “Communicate the Process” page of your presentation. Add details about how your solution works, how to operate it, how to use it, etc.

2/1/21 to 2/5/21 –

- Build 1st prototype and add the “Make your Model” page to your presentation
- Generate one page Project Summary
 - Project Title
 - School Name
 - Teacher Name
 - Student Names
 - Brief description of solution
 - Photos of solution
- update all pages of your presentation.
 - Add pictures, screen shots of 3D CAD drawings, etc.
 - Make sure all information is up to date and ready to present

2/3/21 – SCHS Video Visit
2/4/21 – PBMHS Video Visit

2/5/21 – Due date for first prototype, presentation, and one page Project Summary Sheet

2/10/21 – SCHS VIDEO Preliminary Design Reviews

2/11/21 – PBMHS VIDEO Preliminary Design Review

2/17/21 – SCHS Video Visit
2/18/21 – PBMHS Video Visit

2/19/21 – Due date for the “Evaluate the Solution” and “redesign” pages of your presentation.

- These slides should include details of feedback from Preliminary Design Review and any other ideas or changes you want to incorporate into your design

2/22/21 to 2/26/21 Generate new CAD drawings that capture any design changes

2/24/21 – SCHS Video Visit
2/25/21 – PBMHS Video Visit

2/26/21 – Due date for updated 3D CAD drawings or sketches, and the “Refine the Design” page of your presentation.

3/1/21 to 3/5/21 –

- build period for updated prototype
- detail operation of prototype
- One page Project Summary Sheet needs to include the following information:
 - Project Title
 - School Name
 - Teacher Name
 - Student Names
 - Brief description of solution
 - Photos of solution
- Finalize presentations. Detail prototype descriptions and how your solution works. Be sure to highlight how your solution meets criteria and constraints.

3/3/21 – SCHS Video Visit
3/4/21 – PBMHS Video Visit

3/5/21 – Due date for Updated Prototype, presentation, and Project Summary Sheet.

3/8/21 – SCHS Critical Design Reviews (Monday)

3/9/21 – PBMHS Critical Design Reviews (Tuesday)

3/24/21 – SCHS Video Visit – wrap up project
3/25/21 – PBMHS Video Visit – wrap up project

3/XX/21 – Projects selected for Final Design Review at Johnson Space Center will be announced

4/xx/21 – Final Design Reviews at Johnson Space Center, Houston, TX