**Introduction:** In lieu of a mid-term exam, you will complete a semester project. **Due date: Thursday January 13 by 3:30 PM EDT.** This project is an individual effort \*\* which should demonstrate what you have learned this semester.

**Project Description:** You must create an object that makes astronomical observations. This most likely will be a 3D print, but might be constructed in other ways as well.

**Grade:** This project will be valued at 10% of your semester 1 grade. A rubric for this project may be found on One Note.

**Deliverables:** This is the stuff you need to submit

1. A functionning astronomical instrument, (likely a 3D print)
2. A video of your functioning instrument (see rubric for details)

**Description:**

Create a tool or device that meets the following parameters:

1. Uses the motions of an object in the sky that is capable of making measurements
2. Is accurate in its functioning
3. Is distinctly unique from other projects in the class.

**Project Possibilities:**

Sundials, quadrants, planispheres, orreries, cross-staff (a search of the internet would provide a description of what these items are.)

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| **Planetary Astronomy Final Project grading rubric** | **Constructed Item (25 pts), Video/Presentation (25 pts)** |
| **Grading Rubric 38 Points** | **Credit** |
| **Full** | **Partial** | **Minimum** |
| **CONSTRUCTED ITEM** |
| Makes Measurements | 10 | 7 | 5 |
| Accuracy | 5 | 1 | 0 |
| Unique | 5Truly unique, compelling | 3Good, but not compelling  | 1Little creativity |
| On Time | 5 | 3( in by 1/19 ) | 1 |
| **VIDEO** |
| Video uploaded on time to proper loc | 5Time and Location  | 3Time or location | 1Not to be found |
| Video duration < 61s | 5<61 s | 361-89 s | 1> 90 s |
| Description of the operation of the device | 10Clear and appropriate | 7Clear or appropriate | 5Unclear |
| On Time  | 5 | 3( in by 1/19 ) | 1 |