**APh 162 Syllabus**

**Tuesdays 7-10 pm and Thursdays 1-4 pm**

**Location**: Braun 16 &17

**Instructor**: Prof. Rob Phillips

**TAs:** Office hours will be held in Braun 16

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TA | Email | Phone | Office | Office Hours |
| Helen Bermudez | [hmbermud@caltech.edu](mailto:hmbermud@caltech.edu) | X3106 | 153 Broad | TBA |
| Maja Bialecka | [bialecka@caltech.edu](mailto:bialecka@caltech.edu) | X8889 | 71 Broad | TBA |
| Daniel Jones | [danielj@caltech.edu](mailto:danielj@caltech.edu) | X3333 | 132 Broad | TBA |
| Linda Song | [dansong@caltech.edu](mailto:dansong@caltech.edu) |  |  | TBA |
| David Van Valen | [vanvalen@caltech.edu](mailto:vanvalen@caltech.edu) | X5876 | 155 Broad | TBA |

**Policies**:

This is a Lab course: attendance is absolutely mandatory.

Grading:

Your assignments should be posted on a webpage, rather than turned in during class. Post your pictures, answers and graphs in an easy-to-read style. We will be grading you on content, so do not feel pressured to make the most beautiful website imaginable. However, it must be clear and functional: if we cannot find your assignment, we cannot grade you.

There is available space on the APh 162 file server, snowdome.caltech.edu (see a TA for info) or you may use your ITS personal space. Some of you may also find http://templates.caltech.edu to be helpful. **Before the 1st assignment is due**, send a link to your webpage to all the TAs.

Please keep notebooks of your work in this course. Each session must have: the date, a title, your purpose, materials and methods and results.

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| --- | --- |
| Attendance | 15% |
| Assignments: Weeks 1-4 | 10% each |
| Lab Notebooks | 15% |
| Final Project |  |
| Progress Report | 15% |
| Presentation | 15% |
| Total | 100% |

Progress Reports:  
Please write a short (two-page, double spaced) paper on the background of your topic and how it relates to the project you will be doing. Be sure to include your reasoning and your methods as well as your hypotheses, possible results and their interpretations.

Final Presentations:   
These are to show your fellow students and TAs what you did during the projects. Please include background on the subject, especially on the physical aspects of your work as well as your methods, results and future directions.

**Schedule**:

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| --- | --- | --- | --- |
| **Class** | | **Topic** | **Assignments** |
| T Th | Jan 5 Jan 7 | The Size of Things: Microscopy Microscopy Continued |  |
| T Th | Jan 12 Jan 14 | The Rate of Things: Growth Curves Molecular Biology Day 1 | Week 1 Hwk Due |
| T Th | Jan 19 Jan 21 | Molecular Biology Day 2 Molecular Biology Day 3 | Week 2 Hwk Due |
| T Th | Jan 26 Jan 28 | Molecular Biology Day 4 Begin Projects | Week 3 Hwk Due |
| T Th | Feb 2 Feb 4 | Projects |  |
| T Th | Feb 9 Feb 11 | Projects | Week 4 Hwk Due |
| T Th | Feb 16 Feb 18 | Projects |  |
| T Th | Feb 23 Feb 25 | Projects | Progress Report Due |
| T Th | Mar 2 Mar 4 | Projects |  |
| T Th | Mar 9 Mar 11 | Finish Projects Presentations | Presentations Due |