BASICS:

Instructor: John Phillips (phillij@umn.edu)
Lectures: Monday, Wednesday 2:30-3:45 in Tate 101
Office Hours: By appointment or drop-in, Tate 275-04
Course Websites: https://www.astro.umn.edu/courses/1001/ - ALL astro 1001 sections
https://ay17.moodle.umn.edu/course/view.php?id=3202 - section 003
TA office hours: See Astro 1001 website
Required texts: The Essential Cosmic Perspective, Bennett, Donahue, Schneider and Voit - Eighth Edition
Astronomy 1001/1011H Laboratory Manual 2017 - 2018
Access to Mastering Astronomy (comes with textbook)

Important Dates:

Midterm 1: Wednesday, October 4 2:30 - 3:45
Midterm 2: Wednesday, November 8 2:30 - 3:45
Final: Monday, December 18, 10:30 - 12:30

Midterm 2 and the Final will be cumulative!

Moon Project:

Deadline 1: Friday, September 29, 3:00 PM (at least 3 observations)
Deadline 2: Friday, October 27, 3:00 PM (at least 9 observations, total)
Final Deadline: Friday, December 1, 3:00 PM (at least 15 observations, total)

Note: Please don’t procrastinate on this project. Bad weather will not be an acceptable excuse for missed observations as you have three months to get your observations done! Remember, the moon can be up during the day, too!
Tentative Schedule:

Week 1 - September 5-8: A Perspective on Astronomy Ch 1, 2 No lab
Week 2 - September 11-15: History, Environment, Physics Ch 3, 4 Lab A
Week 3 - September 18-22: Light, Telescopes Ch 5 Lab B
Week 4 - September 25-29: Formation of the Solar System Ch 6 Lab C
Week 5 - October 2-6: Terrestrial Planets Ch 7 Lab D
Week 6 - October 9-13: Jovian Planets, minor bodies Ch 8,9 Lab E
Week 7 - October 16-20: Exoplanets Ch 10 Lab F
Week 8 - October 23-27: Sun, Stars Ch 11,12 Lab G
Week 9 - October 30-November 4: Stellar evolution Ch 13 Lab H
Week 10 - November 6-10: Exotic stars Ch 14 Lab I
Week 11 - November 13-17: The Milky Way Ch 15 Lab J
Week 12 - November 20-24: Galaxies Ch 16 No lab
Week 13 - November 27-December 1: Dark matter/energy Ch 17 Lab K
Week 14 - December 4-8: Cosmology Ch 18 Lab L
Week 15 - December 11-13: Life in the Universe Ch 19 No lab

Grades:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percentage of grade</th>
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<tbody>
<tr>
<td>Labs</td>
<td>240</td>
<td>24%</td>
</tr>
<tr>
<td>Observational Project</td>
<td>140</td>
<td>14%</td>
</tr>
<tr>
<td>Midterm 1</td>
<td>180</td>
<td>18%</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>180</td>
<td>18%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>260</td>
<td>26%</td>
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<tr>
<td>Total</td>
<td>1000</td>
<td>100%</td>
</tr>
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Grades will be assigned **approximately** as follows:

- **A** — 900 - 1000 points
- **B** — 800 - 899 points
- **C** — 650 - 799 points
- **D** — 500 - 649 points
- **F** — 0 - 499 points

Please keep copies of all materials upon which you are graded (laboratory reports, observational project assignments, and examinations) until the end of the semester. Grade summaries will be posted weekly at the course Moodle site. Students are expected to review their grade summaries for accuracy periodically during the semester and after the final examination. Discrepancies should be reported to Terry Thibeault at tt@astro.umn.edu (phone: 612-624-4811).

**Important** - In order to pass the course, you must

1. Have at least 50% of the lab points
2. Have at least 50% of the observational project points, **AND**
3. Take all three exams

Failure to do any of the above will result in an automatic failure of the course, regardless of your total number of points!!!

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**Class policies:**

Any students with special learning needs should contact myself and your lab TA as soon as possible in order to make arrangements to accommodate you. We want astronomy to be accessible to everyone!

Students should familiarize themselves with the University’s policies regarding academic honesty. Present another student’s work as your own, including *Moon observations*, will considered academic dishonesty, and will be reported. Please do your own work.

If you can not make it to an exam or lab, or if you miss an exam or lab, please contact me as soon as possible. Arrangements can be made for the assignment to be made up, however failure to make these arrangements in a timely fashion will result in you forfeiting the points for the assignment (and in the case of exams, failing the class).
Attendance will not be taken in lecture; however as with most things, you will get out of this course what you put into it. Lecture slides will be posted to the class Moodle page following each lecture.

Professor office hours will be drop-in or by appointment to begin the semester. Depending on how many students utilize these options, dedicated office hours may be established. Please feel free to come by!

Each exam is cumulative and closed-book. Calculators will not be permitted. Questions will be multiple choice and free response. Please bring photo identification to each exam, as these will be spot-checked as your exam is turned in.