

Textbook: *Pathways to Astronomy*, by Stephen Schneider & Thomas Arny. (any edition)
ISBN: 987-0-07-726311-9 (4th edition)

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|-----------------|----------------------------------|---------------------------|
| Course Grading: | 3 Mid-term Exams (15% each exam) | 45% of final grade |
| | Final Exam | 20% of final grade |
| | Homework Exercises | 25% of final grade |
| | 2 Written Assignments | |
| | 5% each | 10% of final grade |
| | | ----- |
| | TOTAL | 100% |

Exam Policy: If you miss an exam without prior approval, you **must** e-mail me or call me and leave a message **AS SOON AS POSSIBLE!** If you just wait until the next class meeting to talk with me, you will not be allowed to take the exam.

Homework Policy: Late homework (by next class) is worth half credit. No credit after next class. Do your own work! You can work with others, but **DO NOT COPY ANYONE ELSE'S ASSIGNMENT!** Copied assignments will be given **ZERO!** This will be true for ALL involved in copying.

Extra Credit: The **ONLY** form of extra credit is based on quizzes over constellations presented in the planetarium. You must attend the E-C meetings in the planetarium in order to qualify for the extra credit, not just take the quiz. The total extra credit that can be earned is 5% of the overall grade. There are **no projects or papers** for extra credit!

Attendance Policy: Regular attendance is **REQUIRED**; it does **NOT** earn a passing grade. Poor attendance or regularly missed classes will result in being dropped from class.

For M-W and Tu-Th classes, you will be dropped from this course if you miss **THREE (3) consecutive** class meetings!

For Monday evening classes, you will be dropped from the course if you miss **TWO (2) consecutive** class meetings! Roll will be taken **TWICE!**

Classroom Behavior: Politeness is important!! If you yawn, cover your mouth and keep quiet!

Talking while I am presenting course material should be kept at a minimum!
Talking during group exercises and worksheets is required!

The classroom is NOT a lunch room. Water only! No slurping!

Cell phones should be turned off. If your cell phone goes off during an exam, you will be done with the exam and hand it in. So, turn it off!

Coats, backpacks, purses and other such things will be placed on the floor during class. Note-taking material should be on the desk, that's all.

Boyfriend-girlfriend: Hands to yourself. No squeezing during class.
Expect not to sit next to each other during exams and quizzes.

Outside the Classroom: The general guide for a college level course is that students should spend **TWO HOURS** outside the classroom on the course for each hour in the classroom. As this course meets for 3 hours a week, this is **SIX HOURS** per week. If you are not spending at least 3 to 4 hours each week outside the classroom on this course, you are **not meeting your responsibility** as a student in this course. This is **NOT** just time on homework, but means reading, studying and reviewing!

Course Quotation: "**The mind is not a vessel to be filled, but a fire to be kindled (ignited).**" - Plutarch

"All hope abandon, ye who enter here." From Dante's *Divine Comedy*.

"Ah gravity, thou art a heartless bitch." Sheldon Cooper (TBBT)

Important Withdrawal Dates: Last day to withdraw without W on transcript: Sunday, Feb. 28th.
Last day to withdraw with W on transcript: Saturday, May 14th.

Any student with a documented disability who may need educational accommodations should notify the Instructor and the Disabled Student Programs and Services (DSP&S) Office as soon as possible. The DSP&S Office is in Room 2117 of the Health Sciences Building (355-6312).

Course Webpage: <http://spaces.imperial.edu/russell.lavery/ASTR100/front100.html>

Astronomy 100 -- Spring 2016 -- Monday Night Syllabus

| DATE | SUBJECT | READINGS |
|--------|-----------------------------|------------------------|
| ----- | ----- | ----- |
| Feb 15 | <i>Holiday</i> | |
| 22 | Introduction | |
| | Earth and Sky Coordinates | Unit 5 |
| 29 | Annual Motion of the Sun | Units 6, 7 & 9 |
| | The Reason for Seasons | Units 6, 7 & 9 |
| Mar 7 | Phases of the Moon | Unit 8 |
| | Solar and Lunar Eclipses | |
| | Early Astronomy | Unit 10 |
| 14 | Astronomical Revolution I | Unit 11 |
| | Astronomical Revolution II | Unit 12 |
| | Solar System Overview | Units 34 & 35 |
| 21 | First Mid-Term Exam | |
| | The Earth in Detail | Unit 37 |
| | The Moon in Detail I | Unit 39 |
| 28 | <i>Spring Break</i> | |
| Apr 4 | The Moon in Detail II | Unit 39 |
| | The Terrestrial Planets | Unit 38, 39 & 40 |
| | The Greenhouse Effect | |
| 11 | Pluto and Charon | Units 48 |
| | The Outer Satellites | Units 47 & 48 |
| | Light and Radiation I | Units 22, 23, 24, & 25 |
| 18 | Light and Radiation II | Units 22, 23, 24, & 25 |
| | Our Friend, the Sun | Units 51, 52 & 53 |
| 25 | Second Mid-Term Exam | |
| May 2 | Basic Properties of Stars | Units 54, 56, 57 & 58 |
| | Basic Properties of Stars | Units 54, 56, 57 & 58 |
| | The H-R Diagram | Units 59, 60 & 62 |
| 9 | Death of Low-Mass Stars | Units 63 & 65 |
| | Death of High-Mass Stars | Units 67 & 68 |
| | Black Holes | Unit 69 |
| 16 | Our Milky Way Galaxy | Units 71, 72 & 73 |
| | Dark Matter | Units 74 & 79 |
| | Cosmology | Units 77, 80 & 81 |
| 23 | Third Mid-Term Exam | |
| | Cosmogony | Units 82, 83 & 84 |
| | Life in Other Places? | Units 85 & 86 |
| | Final Exam Preparation | |
| 30 | <i>Holiday</i> | |
| 6 | Final Exam | |