Astronomy 20 – The Solar System
AND
Astronomy 25 – Stars and Galaxies
Day 1

Volunteers

• I need 3 volunteers
• Must have a child 8 years or younger in your house (often)
Syllabus

• Some highlights from syllabus
• See syllabus for actual words
• This PowerPoint is paraphrased

Contact Info

• **Office:** Physics 117F (see map)
• **Phone:** (310) 660-3593 x3134.
• **Email:** dvakil@elcamino.edu
• **Office Hours:** MW 4:15pm-5:15pm, TTh 2:45-3:45pm, W 10am-11am OR by appointment, OR just stop by! I’m around.
• **Web Page:**
  [www.elcamino.edu/faculty/dvakil/astronomy_XX.html](http://www.elcamino.edu/faculty/dvakil/astronomy_XX.html)
• **NOTE:** replace XX with 20 or 25 depending on the course
Class videos

- microphone + computer = class movie
- All videos will be on website
- NOTE: your voice may be recorded
- **Read the syllabus paragraph!!**
- Record videos to help you succeed.
- Allow you to: see/hear things again, catch up when miss class.
- Attendance is still mandatory. Do not rely on the videos instead of coming to class!

Free Tutors

- Jessica
  - Learning Resource Center, 2nd floor, library.
  - [jlasbell@yahoo.com](mailto:jlasbell@yahoo.com)
  - Tues & Thursdays from 4:30pm until 6pm.
- Jeff
  - Roof of Math building
  - Tuesday night, 7:30pm
Books and Scantrons

• Buy 6 forms of Scantron 882-E
• Textbook will be discussed during class. Too much to write here. See syllabus for detailed info. (Sorry it’s so long.)

Disabilities & Safety

• Please let me know if you have a disability. The notecard homework is a private way to do that.
• Campus shuttle available to take you to and from car. Call 310-660-3100, call from a blue phone, or ask me to call.
  – BE SAFE! Our police escorts are friendly!
What you will learn in this course

• There are 2 pages of “goals” and “Student Learning Outcomes” for this course. If you want to see what we’ll be doing, read these pages (4 & 5).

This class vs. other astronomy classes

• Astro 20 = learning about how planets and other solar system objects work & look.
• Astro 25 = learning about how stars, black holes, Big Bang, and galaxies work & look
• Astro 12 = learning sky names (stars, constellations, planets), use a telescope most nights. Do what ancients did.
• Astro 13 = Build your own telescope for $250-300, better than most $1500 store bought models.
Grades, Homework, Email submissions, Late Homework

- Read the syllabus
- If you plan to submit email homework, PLEASE READ THE PARAGRAPH IN THE SYLLABUS!!!
- I don’t accept late homework.
- You get 2 NQA coupons for missed homework, or you can use them to delay the most important (optional) homework: test rewrites. (You get to re-do tests for half credit after getting them back.)

Tests

- Buy Scantron form 882-E for each
- Bring handwritten 3x5 notecard
- Multiple choice, true/false, matching (mostly mult. Choice)
- Rewrites available for first 5 tests. Not for 6th test on the last day. Most questions eligible for half credit after test. More later.
- Drop lowest test
- If you know you will miss a test IN ADVANCE, we can try to reschedule test. Otherwise, drop the zero.
Student Expectations

- Read this page, too.
- This page includes deadlines
- If you are thinking of dropping the course, pay attention to the deadlines AND please come see me. I may be able to help.
- Study, not just before tests.
- ASK QUESTIONS.
- ASK QUESTIONS.
- ASK QUESTIONS.

Clicker introduction

Why we use clickers
Astronomy is going to be the best class this semester.

1. True
2. False

What does this graph tell us?

**Final grade vs. Participation rate**  
Prof. Vakil's Spring 2008 5 astro courses

![Graph showing the relationship between final grade and participation rate.](image-url)
A miniature astronomy lecture

• The universe is ________________ years old.
• A light year is ________________.
POST-TEST:
A light year is a measure of

1. Time
2. Distance

It is possible for astronomers to detect an object 15 billion light years away from Earth.

1. True
2. False
Class management

- Attendance
- Adding students
- Any questions about course?
- Highlights of syllabus
- Homework

Some review material that you’ve probably seen before…

The Montillation of Traxoline

It is very important that you learn about traxoline. Traxoline is a new form of zionter. It is montilled in Ceristanna. The Ceristannians gristerlate large amounts of fevon and then brachter it to quasel traxoline. Traxoline may well be one of our most lukized snezlaus in the future because of our zionter lescelidge.
**Traxoline Comprehension**

It is very important that you learn about traxoline. Traxoline is a new form of zionter. It is montilled in Ceristanna. The Ceristannians gristerlate large amounts of fevon and then brachter it to quasel traxoline. Traxoline may well be one of our most lukized snezlaus in the future because of our zionter lescelidge.

Directions: Answer the following questions in complete sentences.

1. What is traxoline?
   - If you don’t remember this AND you’re having trouble with these very simple questions, you probably won’t succeed in this class…
2. Where is traxoline montilled?
3. How is traxoline quaselled?
4. Why is it important to know about traxoline?

KIDDING!

**End of PPT**

- Any questions of any sort, astronomy or not?
  - Shoebox questions = questions off topic
  - Write them down on a paper with your class dates & time (e.g. Mon-Wed 3:45pm)
  - Will answer at the beginning of next class
  - EXCEPT TODAY. All questions fair game today.
Last slide

• This is the last slide
• Folder for grades, submitting, handing back paper? Wait for 2nd class?