

Professor: Office hours:	Chris Pritchet (Elliott 215) - <u>pritchet@uvic.ca</u> Mon Thu 14:30-15:30 – or email for an appointment	
Textbooks:	 Chaisson/McMillan: "Astronomy Today", 8th ed, with Mastering Astronomy Lab Manual i>clicker 	
Web site:	http://www.astro.uvic.ca/~pritchet/Astr102	
Lecture Notes:	On the above web site	
Marks:	Assignmentsa 13% (Mastering Astronomy website) Midterm Examsb 20% (Oct 9th and Nov 6th) Labc 20% (starts Sep 15/16th) i>clickerd 7% Final 40% There will "normally" be one assignment per week, normally due on Mondays at 11:59pm. Late assignments are not accepted. The Midterm exams will be held on Oct 9 and Nov 6, in class time. You cannot pass the course without also passing the lab (department regulation; cannot be waived). Labs start on Sep 15/16th. Make sure you have a lab section. Half the i>clicker mark is for participation and half is for the correct answer.	
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Course Level:	For non-scientists; hardly any math; no science prereq's	
Course Content:	Chaisson Ch 28-16 – Stars, Galaxies, the Universe (but backwards)	
Assignment	See "Getting Started" on class web site. First assignment due Mon Sep 15. Read Ch. 3. Connect to Facebook group. Register clicker. Go to lab.	

Introduction

- Light and Distance [AT 3.1-3.3]
- Temperature [AT 3.4]
- Doppler Effect [AT 3.5]
- Angular Measure [AT 1.3, box p 11]

Galaxies and Cosmology Introduction

- The Milky Way [AT 23 just a summary use notes]
- Historical Intro [best to use notes for this]
- Star counts [AT 23.2]
- Parallax [AT 17.1]
- Pulsating Variables [AT 23.2]
- Shapley and the size of the Milky Way [AT 23.2]
- Dust, Trumpler, star counts [-]
- Galaxy Velocities [AT 24.3]
- Nature of Nebulae and the Great Debate [AT 23.2]
- Hubble's resolution of the problem [a few sentences at the end of 23.2]
- Expansion of the Universe [AT 24.3]
- Dark Matter [AT 23.6, 25.1]

Galaxies and Cosmology - the Big Bang

- The Hubble expansion, misconceptions, age etc [AT 26.2]
- Temperature of Universe [AT 27.2 part]
- Evidence for a Hot Big Bang ...
- Big Bang Nucleosynthesis [AT 27.3]
- Structure of Atoms
- Fusion [AT 16.6]
- Cosmic Background Radiation [AT 26.7, 27.6]
- Blackbody Radiation [AT 3.4]
- Inflation and the Horizon Problem [AT 27.4]

Cosmology - After the Big Bang

- Cosmological Principle [AT 26.1]
- Fate of the Universe [AT 26.3-26.5]
- Supernova Cosmology and Dark Energy [AT 26.5-26.6]
- Flatness Problem Inflation revisited [AT 27.4]

Galaxies

- Milky Way [AT 23 parts only]
- Galaxy Classification [AT 24.1]
- Hydrostatic equilibrium [AT 16.2]
- Black Holes [AT 22.5-22.8]
- Supermassive black holes [AT 23.7, 25.4]
- Radio Galaxies and AGN's [AT 24.5, 25.4]
- Distribution of Galaxies in Space [AT 24.2, 25.5, 26.1]
- Galaxy and Structure Formation [AT 27.5, 25.3]

Stars

- Physical Properties of Sun [AT 16.1]
- Solar Neighbourhood [AT 17.1]
- Stellar Temperatures and Spectra [AT 17.3]
- Stellar Sizes [AT 17.4]
- Hertzsprung-Russell Diagram [AT 17.5]
- Stellar Masses [AT 17.7]
- Other Stellar Properties [AT 17.8]
- Evolution Leaving the Main Sequence [AT 20.1]
- Evolution of a Solar Star [AT 20.2]
- Death of Low Mass Stars [AT 20.3]
- Evolution of Massive Stars [20.4]



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Web site and lecture notes

- http://www.astro.uvic.ca/~pritchet/Astr102
- notes contain pictures, movies, some key concepts, but ...
- more will be said in class
- approximately 10% of the exam questions will be based on material not in the textbook or notes but discussed or mentioned in class
- notes will be online after chapter completed



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Assignments

- Mastering Astronomy access required (bundled with the Astr 102 textbook)
 - http://www.masteringastronomy.com/
- Assignments "usually" due Mondays at 23:59.
 - Questions may be randomized, numerical questions may use different numbers.
- First assignment due Monday Sep 15th 23:59
 - not a "real assignment"
 - later assignments will have only 1 correct answer and may not have hints



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Labs

- Make sure you are enrolled in a lab section
- Labs start Sep 15/16th night lab 8:30pm, meet in BWC A506 for this lab only
- Other labs are held every 2-3 weeks, and are held in A111 at your regular time
- You cannot pass the course without also passing the lab!



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i>clicker

- Always bring your i>clicker to class!
- Half the marks for participation (i.e. giving an answer, any answer)
- Half the marks for the correct answer
- You will be allowed to miss 4 questions before it counts against you

If N is the # of questions, M is the # of questions to which you respond, and C is the # for which you respond correctly, then your i>clicker mark is (M/2+C/2)/N x 100% [modify for up to 4 missing answers]

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Social Media

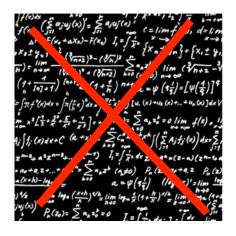
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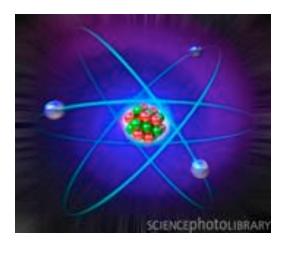




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Course Level





- no prerequisites
- for non-science students
- little or no math
 - example
 - more math in labs
- science concepts introduced as needed
 - Example

"Mastering Astronomy", Chaisson & McMillan



385



- The Stars: Giants, Dwarfs, and the Main Sequence 416 The Sun: Our Parent Star 384
- The Interstellar Medium: Gas and Dust among the Stars 18
- 19 Star Formation: A Traumatic Birth 464
- Stellar Evolution: The Life and Death of a Star 490 20
- Elements 516 Stellar Explosions: Novae, Supernovae, and the Formation of the 21
- Neutron Stars and Black Holes: Strange States of Matter 660 22



- The Milky Way Galaxy: A Spiral in Space 572
- Galaxies: Building Blocks of the Universe 24
- of the Cosmos 634 Galaxies and Dark Matter: The Large-Scale Structure 25
- Cosmology: The Big Bang and the Fate of the Universe 660 26
- 27 The Early Universe: Toward the Beginning of Time
- Life in the Universe; Are We Alone?

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Galaxies

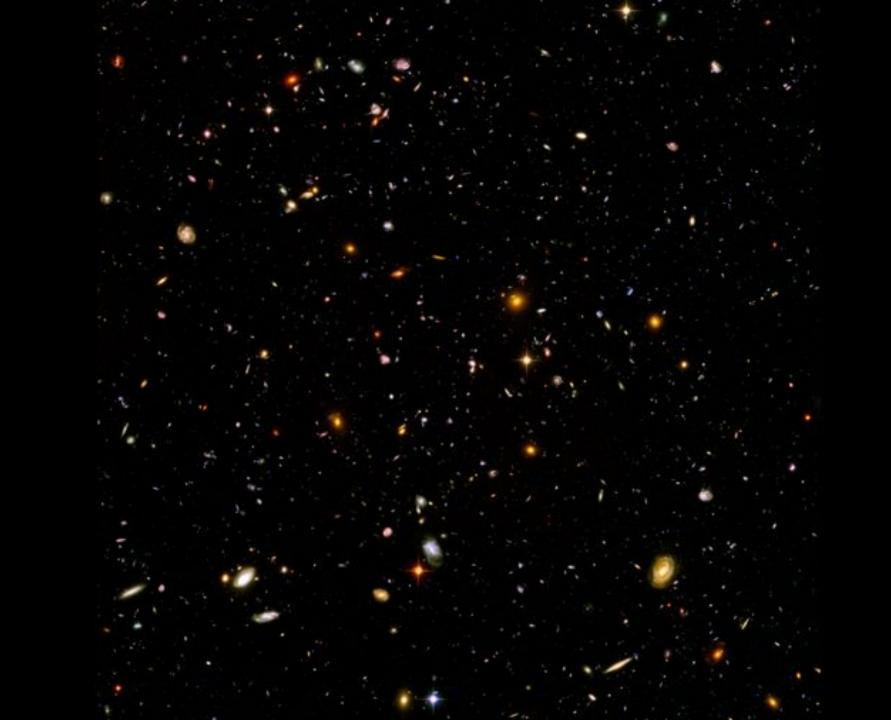
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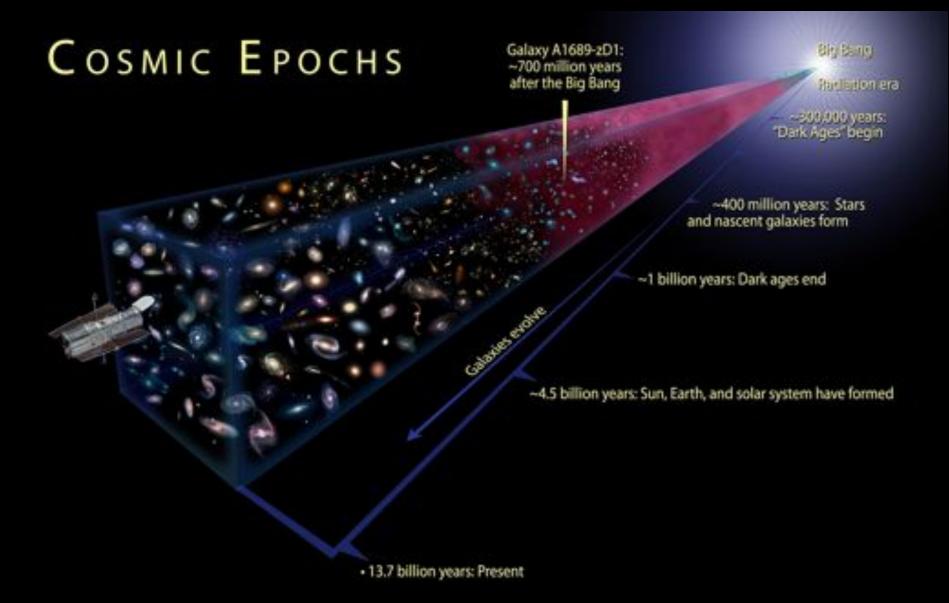
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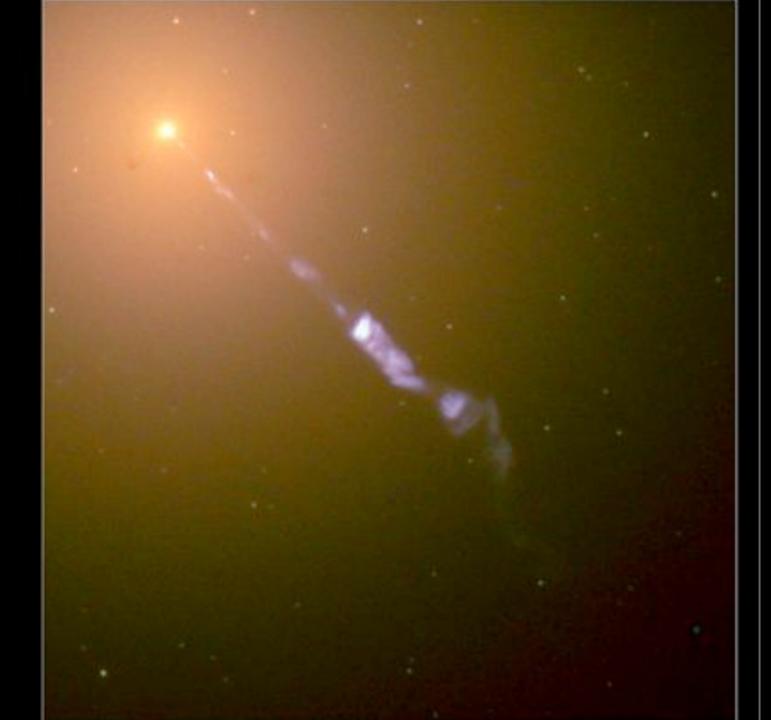




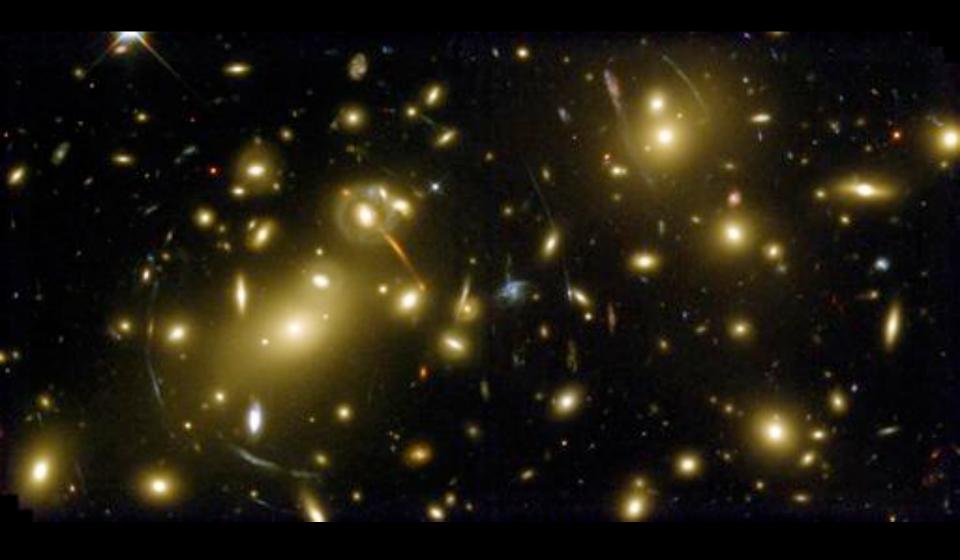


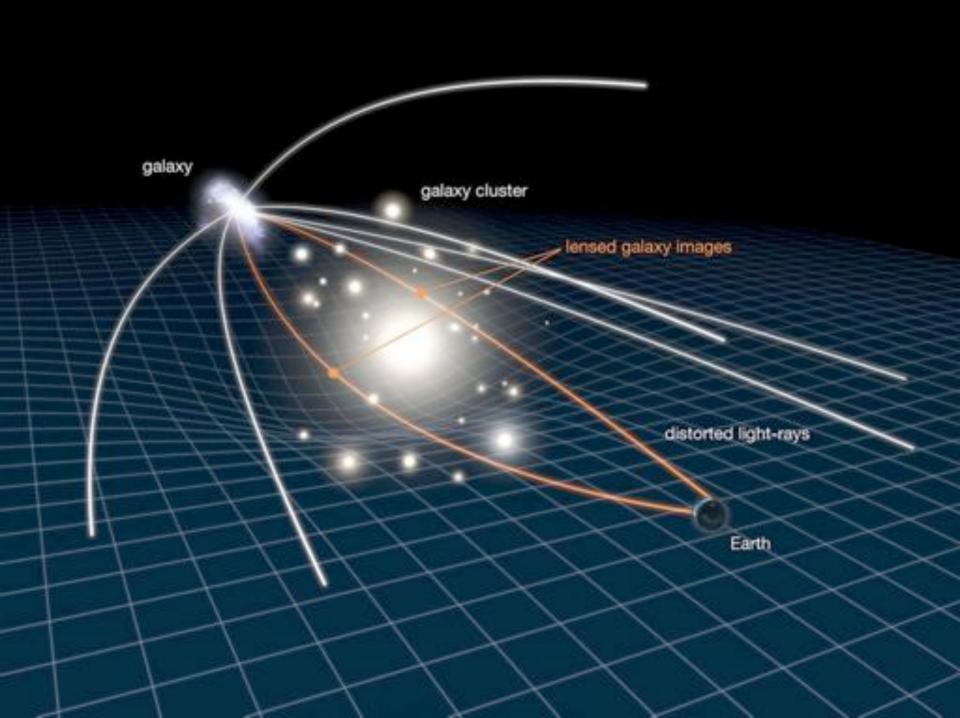




















Death of the Sun Part I

Courtesy of:

The Wright Center,
Science Visualization Lab Tufts University/ D.Berry and J. Palmer



www.spacetelescope.org

Astr 102 Schedule [so far]

Date	Event
Mondays	Assignments "normally" due (23:59)
Mon & Thu	14:30-15:30 Office hours
Mon, Sep 15th	First "assignment" due
Mon/Tue Sep 15/16th	First lab
Thu, Oct 9th	Midterm Exam
Thu, Nov 6th	Midterm Exam



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