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For example, a nearby star with a stellar parallax of 100(1 arcsec = 10/3600) is located at a distance of  $L = 1 \text{ AU}$   
 $(10/3600) \times 3600 \cdot 2\pi = 3.09 \times 10^{16} \text{m}$ . A

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new unit of stellar distance is, therefore, defined as the parsec (pc):  $L(\text{pc}) = \frac{1}{\theta(\text{arcsec})}$ , where  $1 \text{ pc} = 3.09 \times 10^{16} \text{ m} = 3.27 \text{ ly} = 206,265 \text{ AU}$ .

## **ASTRONOMY LECTURE NOTES**

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Earth diameter  $\sim 10^4 \text{ km} = 10^7 \text{ m}$   
distance from Earth to Sun  $1.5 \times 10^8 \text{ km}$

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10 distance from Earth to Sun  $1.5 \times 10^{11}$  m  
distances to nearest stars  $10^{17}$  m  
size of Milky Way galaxy  $\sim 10^{21}$  m  
Local Group of galaxies  $5 \times 10^{22}$  m  
Local Group of galaxies  $5 \times 10^{23}$  m  
radius of observable universe  $1.4 \times 10^{26}$  m  
Sometimes we like to use different units: 1 mile = 1.609347 kilometers  
mean Earth-Sun distance = 1 Astronomical

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UnitSun distance = 1 ...

**Welcome to Astronomy 101 - Texas  
A&M University**

Astronomy 101:

<http://people.physics.tamu.edu/dep>

Links to lecture notes and other

pagLinks to lecture notes and other pag

Astronomy Picture of the Day (AP



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<http://antwrp.gsfc.nasa.gov/apod/>. The  
Web Page. [oy/astro101.html](http://astro101.html) ges of  
possible interest likeges of possible  
interest like OD): Astronomy 1. There is  
no lab requirement for AS However,  
there are “Star Parties” a Great  
opportunity to look through a Confirmed  
attendance will result inConfirmed  
attendance will result in grade See ...

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## **Astronomy 101: The Web Page - Texas A&M University**

View Notes - Astronomy\_Notes from  
ECONOMICS FEB42002 at Erasmus  
University Rotterdam. ASTRONOMY  
LECTURE NOTES Physics 101 Alain J.  
Brizard Department of Chemistry and  
Physics Saint Michaels College,

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## **Astronomy\_Notes - ASTRONOMY LECTURE NOTES Physics 101 ...**

Astro 101 Week 1 & 2 Lectures. Summer 2015. Ana Larson. ASTR 101. Lecture notes covers the moon, cosmic address, seasons, force, and Kepler's Laws

## **UW - ASTR 101 - Week 1 Notes -**

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## **Class Notes | StudySoup**

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<http://people.physics.tamu.edu/dep>

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Astronomy 101: The Basics of Learning

Astronomy Physics 101: Lecture 1, Pg 9

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P101 Lectures Participation is key! Come to lecture prepared! 1 point

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From Mihalas & Binney, Galactic Astronomy. Key points: The ecliptic; is the path of the Sun in the sky (Earth orbital plane). The obliquity of the ecliptic is  $23^{\circ} 27'$ . The moon orbits



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within  $5^\circ$  of the ecliptic. Planets orbit within  $7^\circ 0'$  of the ecliptic (except Pluto  $17^\circ 09'$ ). Zodiacal light, zodiacal dust, lie along this plane, often a problem in IR maps.

### **ASTR 5610, Majewski [SPRING 2020]. Lecture Notes**

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Astronomy\_Notes - ASTRONOMY

LECTURE NOTES Physics 101 ...

Introduction to Astronomy provides a quantitative introduction to the physics of the solar system, stars, the interstellar medium, the galaxy, and the universe, as determined from a variety of astronomical observations and

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## **Astronomy Lecture Notes Physics 101 Academics**

SCIENCE 101 - DISTANCES IN  
ASTRONOMY - LECTURE NOTES.

Distances in the Solar System. •

Distance to Venus can be obtained using  
radar ranging. • Send signal, determine

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how long it takes to return • Radio waves move at the speed of light, which is known ( $3 \times 10^8 \text{m/s}$ ) • Calculate distance: distance = (speed of light) (time taken  $\times$  for signal to return)/2.

### **SCIENCE 101 - DISTANCES IN ASTRONOMY - LECTURE NOTES ...**

Lecture Number and Title: Reading

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Assignment: Homework Assignment:  
Lecture 1 (W 01/23). Introduction to  
Radio Astronomy: Lecture Notes:  
Problem Set #1 (due 30 Jan) Lecture 2  
(W 01/30). Radio Emission Mechanisms:  
Lecture Notes: Problem Set #2 (due 06  
Feb) Lecture 3 (W 02/06). Radiative  
Transfer (Appleton Code) Lecture Notes:  
Problem Set #3 (due ...

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## **PHYSICS 728, RADIO ASTRONOMY**

The course begins with an exploration of the historical development of astronomy, tracing the path by which we have come to our present understanding of the Universe. Along the way we will build up the basic toolkit of physical concepts that we will need for our later

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explorations, specifically the nature of light, matter, and gravitation.

**Astronomy 161 (Prof. Pogge Au2007)**

Currently these notes cover: a brief overview of astronomy's place in the scientific endeavor, the philosophy of science and the scientific method,

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astronomy that can be done without a telescope, a history of astronomy and science, Newton's law of gravity and applications to orbits, Einstein's Relativity theories, electromagnetic radiation, telescopes, all the objects of the solar system ...

## **Astronomy Notes**



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My lecture notes: Lecture 1: Introduction, approximations and physical intuition in equations; Lecture 2: Specific intensity RL 1.2, 1.3 Practice problems; Lecture 3: Scattering and random walks RL 1.7 Practice problems; Lecture 4: Absorption and addition of opacities RL 1.4 (see above for practice problems)

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## **Astronomy 601**

Astronomy 121: The Formation and Evolution of the Solar System .

Administrative: ... Astronomy/Physics  
Glossary: Solar System Symbols What's in the Sky this Month? ... Exponents and Logarithms. AST122: Birth and Death of Stars AST123: Galaxies and Cosmology

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Lectures: Week 01: (Oct 02)

Introduction; History (Video Lecture)  
(Video Lecture) Week ...

## **Astronomy 121: Schombert**

Lecture Notes Lectures are daily  
9:30-10:18am in 1008 Evans Lab on the  
OSU campus in Columbus. Attendance is  
strongly encouraged, as not all essential

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class material will appear on these webpages. The links below lead to the lecture notes for this course. These are only outlines of the lectures, not verbatim transcripts. Notes will generally ...

**Astronomy 162 (Prof. Pogge  
Wi2006)**

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Daily Lectures, Light-board Scans, and  
Related Notes: Lecture 01: What is  
physics, why am I here, and how can I  
help myself get an A? [slides] Lecture  
02: Scientific notation, Units, Estimation,  
and Significant Figures [slides]

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