**AST 105-001 – Classical and Modern Astronomy**  
**Summer II 2018**  
**MTWR 10:15 am – 12:10 pm   Miller Science 323**

**Instructor:** Robert Friedfeld  
**Email:** rfriedfeld@sfasu.edu  
**Office:** 322I or 126 Miller Science Building  
**Phone:** 468-2197  
**Office Hours:** (By appointment)  
**Textbook:** The Essential Cosmic Perspective, 8th Edition  
**Authors:** Bennett, Donahue, Schneider, Voit  
**Course Webpage:** [http://www.physics.sfasu.edu/friedfeld/ast105/INDEX.HTM](http://www.physics.sfasu.edu/friedfeld/ast105/INDEX.HTM)

**Course Description:** An introductory study of planetary astronomy, astrophysics, and cosmology. Lecture and laboratory grades are computed into one grade, and the same grade is recorded for both lecture and laboratory.

**Co-requisites:** AST 105L.

**Course Objectives:** To give each student an appreciation and understanding of the scope and content of our universe through the methods of science.

### CALENDAR

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Topic</th>
<th>Dates</th>
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</thead>
</table>
| 1,2     | 1) A Modern View of the Universe  
         | 2) Discovering the Universe for Yourself | July 10 |
| 2,3     | 2) Discovering the Universe for Yourself  
         | 3) The Science of Astronomy | July 11 |
| 3,4     | 3) The Science of Astronomy  
         | 4) Making Sense of the Universe: Understanding Motion, Energy, and Gravity | July 12 |
|         | **Exam I (1-4)** | **July 16** |
| 5,11    | 5) Light: The Cosmic Messenger  
         | 11) Our Star | July 17 |
| 11,12   | 11) Our Star  
         | 12) Surveying the Stars | July 18 |
| 12,13   | 12) Surveying the Stars  
         | 13) Star Stuff | July 19 |
|         | **Exam II (5, 11-13)** | **July 23** |
| 14,15   | 14) The Bizarre Stellar Graveyard  
         | 15) Our Galaxy | July 24 |
| 15,16 | 15) Our Galaxy  
16) A Universe of Galaxies | July 25 |
| 16,17,18 | 16) A Universe of Galaxies  
17) The Birth of the Universe  
18) Dark Matter, Dark Energy and the Fate of the Universe | July 26 – July 31 |

**Exam III (14-18)**  
Aug. 01

| 6,7 | 6) Our Solar System and Its Origin  
7) Earth and the Terrestrial Worlds | Aug. 02 |
| 7,8 | 7) Earth and the Terrestrial Worlds  
8) Jovian Planet Systems | Aug. 06 |
| 8,9 | 8) Jovian Planet Systems  
9) Remnants of Rock and Ice Asteroids, Comets and Pluto | Aug. 07 |
| 10 | 10) Other Planetary Systems | Aug. 08-09 |

**Final Exam (6-10) + review questions**  
Aug. 10

**TEXTBOOK LINK:** [http://www.masteringastronomy.com/](http://www.masteringastronomy.com/)

**EXAMS & GRADING:**

There will be four major exams, each covering a limited amount of lecture and text material. The dates of these exams are listed in the schedule. **Each student must provide a SCANTRON form number 882-E in order to take each exam.** *(The final exam will NOT be comprehensive.)*  
No make-up exams will be given unless there is a valid reason as deemed by the instructor. Each exam is worth 20% of the lecture avg. The final exam WILL NOT BE comprehensive but will cover chapters 6-10. On-line homework will count as 20% of your LECTURE average. The FINAL average will be computed as 75% of your Lecture average plus 25% of your Lab average, as shown in the table below. A student who misses three or more laboratories or lectures will fail the course.
The grading is summarized in the following Table:

<table>
<thead>
<tr>
<th>Lecture Average</th>
<th>Final Average</th>
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<tbody>
<tr>
<td>20% Exam I</td>
<td>75% Lecture Average</td>
</tr>
<tr>
<td>20% Exam II</td>
<td>25% Lab Average</td>
</tr>
<tr>
<td>20% Exam III</td>
<td>100% Final Average</td>
</tr>
<tr>
<td>20% Final Exam</td>
<td></td>
</tr>
<tr>
<td>20% Homework</td>
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</tbody>
</table>

100% Lecture Average

In this course you will be using MasteringAstronomy, an online tutorial and homework companion to your textbook. In order to access this site you must first register. Locate the —access kitl that came with your new textbook. Open it up and carefully follow the registration instructions given below and be sure to enter the information EXACTLY as indicated.

Info You Need To Register:

- Your SFA email address
- A student access code (from your —access kit).
- The zip code for SFA: 75962
- Course ID for Dr. Friedfeld's Ast105.001 class: AST105001SUMMER2018
- Your SFA CID number

Student Registration:
First, watch the video to help you get started (we will NOT be using Blackboard or anything like it) — Click Here

Important!!
1. When registering make sure to click on the correct textbook icon:

(8th edition of —The Essential Cosmic Perspective)
2. Enter your first and last name exactly the way it appears on University records. Capitalize the first letter of your first and last names only. Do not use all caps. Do not shorten your first name or use nicknames otherwise your online work and grades may not be recorded! Also, be careful to enter the Course ID correctly.

To begin registration process: Click Here

GRADING SCALE:

Letter grades are assigned according to the following scale for the Final Average

A (90-100)  B (80 – 89.9)  C (70-79.9)  D (60-69.9)  F (0-59.9)

Lecture and Laboratory grades are computed into one grade and the same grade is recorded for both lecture and lab.

IMPORTANT DATES:

July 10, 2018  Classes begin for Summer II 2018.
Aug. 02, 2018  Last day to drop courses. Last day to withdraw from the university without a WP or WF.
Aug. 10, 2018 (Friday)  Final Exams

CELL PHONES & OTHER ELECTRONIC DEVICES:

Cell phones and other electronic devices are to be turned off upon entering the classroom and stowed in a zipped up book bag or brief cases. A cell phone unsecured by you during class or during an exam is subject to confiscation with an automatic zero for that exam.

Any programmable calculator used on an exam must have its memory wiped before the exam.

ACADEMIC INTEGRITY (A-9.1):

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class (homework, clicker, exams, lecture or lab); (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.
Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Penalties may include no credit or failure in the course.

WITHHELD GRADES SEMESTER GRADES POLICY (A-54):

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

STUDENTS WITH DISABILITIES:

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.