DESCRIPTIVE ASTRONOMY
Summer I – 2014
Prof. Varsha Kulkarni
Dr. Soheila Gharanfoli

ASTR 111 — 3 hours credit
ASTR 111A — 1 hour credit
Contact Info

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soheila@sc.edu
Office: PSC Room 007A, 803-576-6235
ASTRONOMY 111/111A

• SELF-PACED, MASTERY ORIENTED

• Need
  – Study Guide (an e-document)
  – Textbook comes with the SG
  – Calculator (used in lab)
  – An email-box at which you will receive messages
  – Carolina Card ID
Astronomy Center Hours of Operation

• Mon-Thu 10-6 pm
• Friday 10-3 pm

Closed on Friday 20 June (No class day)
UNIT STRUCTURE

- Goals — Why
- Text References
- Mastery — what you must do to earn a credit
- Objectives
- Online Videos
- Notes
- Word Practice, Questions & Answers
COURSE GRADING I

- ASTR 111 — 3 credit hours
  - A — 17 Units including 1-8, 44, and two from list X (11, 15, 21, 25, 29, & 33)
  - ....
  - D — 8 Units including 1-7, and 44
  - see syllabus

- NOT OFFERRED Units 39-43, 45-47, 52-53
COURSE GRADING II

- ASTR 111 and 111A — 2 courses = 2 grades
  - A and A — 22 Units including 1-8, 44, and two units from list X
  - ...  
  - D and D — 10 Units including 1-7, and 44 
  - See syllabus
    - first grade is the 3 hour grade (ASTR 111) 
    - second grade is the 1 hour grade (ASTR 111A)
**GRADING SYSTEM**

To be credited toward your grade units must appear on the line “AVAILABLE FOR CREDIT” accessed via the student information link on the ASTR website. In the following tables “List X” refers to Review Units 11, 15, 21, 25, 29, and 33. Credit for units beyond the required units may be obtained with any other units that are offered. No unit may earn credit in more than one ASTR course. All parts of any unit selected must be completed. In the 4-credit hours table the first grade is for ASTR 111 (the 3-credit hour grade) and the second grade is for ASTR 111A (the 1-credit hour grade).

**Enrolled in ASTR 111 only (3 credit hours)**

<table>
<thead>
<tr>
<th>GRADE</th>
<th>TOTAL UNITS NEEDED</th>
<th>REQUIRED UNITS</th>
<th>ELECTIVE UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>17 (20)</td>
<td>1-8, 44 + two from List X (1-7, 44 + three from List X)</td>
<td>6 (9)</td>
</tr>
<tr>
<td>B+</td>
<td>16 (19)</td>
<td>1-8, 44 + one from List X (1-7, 44 + two from List X)</td>
<td>6 (9)</td>
</tr>
<tr>
<td>B</td>
<td>14 (17)</td>
<td>1-8, 44 (1-7, 44 + one from List X)</td>
<td>5 (8)</td>
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<tr>
<td>C+</td>
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<td>1-7, 44</td>
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<tr>
<td>C (S)</td>
<td>11</td>
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<td>3</td>
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<tr>
<td>D+ (U)</td>
<td>10</td>
<td>1-7, 44</td>
<td>2</td>
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<tr>
<td>D</td>
<td>8</td>
<td>1-7, 44</td>
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</table>

List X: The review Units 11, 15, 21, 25, 29, and 33.
Each missing required lab will incur a penalty of one full letter grade, and each missing required evaluation will incur a penalty of two full letter grades.

**Enrolled in ASTR 111 & ASTR 111A (4 credit hours)**

<table>
<thead>
<tr>
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<th>REQUIRED UNITS</th>
<th>ELECTIVE UNITS</th>
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<td>A/A</td>
<td>22 (25)</td>
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<td>A/B</td>
<td>21 (24)</td>
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<td>B+/A</td>
<td>20 (23)</td>
<td>1-8, 44 + one from List X (1-7, 44 + two from List X)</td>
<td>10 (13)</td>
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<tr>
<td>B+/B</td>
<td>19 (22)</td>
<td>1-8, 44 + one from List X (1-7, 44 + two from List X)</td>
<td>9 (12)</td>
</tr>
<tr>
<td>B/B</td>
<td>18 (21)</td>
<td>1-8, 44 (1-7, 44 + one from List X)</td>
<td>9 (12)</td>
</tr>
<tr>
<td>B/C</td>
<td>17 (20)</td>
<td>1-8, 44 (1-7, 44 + one from List X)</td>
<td>8 (11)</td>
</tr>
<tr>
<td>C+/B</td>
<td>16</td>
<td>1-7, 44</td>
<td>8</td>
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<tr>
<td>C+/C</td>
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<td>7</td>
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<tr>
<td>C/C (S/S)</td>
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<td>6</td>
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<td>C/D (S/U)</td>
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<td>5</td>
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<td>D+/C (U/S)</td>
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<td>D+/D (U/U)</td>
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<td>1-7, 44</td>
<td>3</td>
</tr>
<tr>
<td>D/D</td>
<td>10</td>
<td>1-7, 44</td>
<td>2</td>
</tr>
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</table>

In lieu of mastery of Unit 8 a student may increase the Total Units Needed (and the elective units) by three and the number of List X units required by one as shown in parentheses in the tables above. Please see the Astronomy Center...
MASTERY PROCEDURE I

• Study
  – Use
    • Study Guide and Textbook
    • Online videos
    • Sample Questions
    • Staff help

• Take Evaluation (EV)
• MUST HAVE CAROLINA CARD ID
MASTERY PROCEDURE II

• Submit and get the result
• May retake until successful
  – 4 tries per day
  – 30 min. between tries
• Ask for help if not successful in 4 tries
Printed Receipt

- Identification - Index Code & Unit #
- Successful or Not (Keep it as a proof)
- Study Information (Use it as a study aid)
  - Question #s & answers given
  - Objectives covered
LABORATORIES

REQUIRED FOR ALL 111 STUDENTS
– 111A is an addendum – it is not the lab
• One orientation meeting (Lab 0) and six 2-hr labs (Labs 2-7)
• Lab orientation meeting is on 3 June
• Labs meet Wed – Tue, 4 – 24 June
• Labs are held at 12, 2, and 4 pm
Lab Scheduling

• Registration opens at 1:00 am on Tue 3 June
  – All the lab sessions for the semester available for sign-up at that time.
• For a given unit may not register for more than one lab session at a time.
• Scheduling/Rescheduling of labs is unconstrained until 5 June.
• After that lab scheduling is free ONLY on any one calendar day of your choosing.
• Scheduling/Rescheduling the labs on more than one free calendar day incurs a grade penalty.
PRE-LABS

- All labs (except orientation lab) have pre-lab
- Pre-labs
  - May be taken when EV room is open
  - Are only valid for 7 days
  - May be taken 4 times a day
  - Require 30 min. between tries
PRE-LABS Cont’d.

• WHY
  – To get you read (not do) the labs in advance
  – Provide some vocabulary for lab

• WHAT
  – Beginning of the lab sheets
  – May need to refer to the unit material
  – Require to read the lab sheets before attending the labs
Orientation Lab (Lab 0)

• Meet with the lab Instructor
• Go over lab rules and what is expected
• Go over how to prepare for evaluations and pre-labs
• Go over questions about the course
• Take a tour in the Astronomy Center
• Take Unit 1
Choose Your Lab 0 Time

- Sign up for a session of Lab 0
  - Sign-up sheets are on the bulletin board outside the EV Room
  - All labs meet on the Mezzanine level; Rooms Z131, Z132, Z133
PROCEDURES FOR LABS

• SIGNED-UP FOR THE SESSION
• PRE-LAB COMPLETED
• MUST BRING
  – Full size print out of all lab pages
    • Make sure you have data pages
  – Calculator
  – Pencil
  – Carolina card ID
• BE ON TIME
INDEX CODE & PROGRESS

• 4 letter index code generated by the Astronomy Center’s computer system
• Receive the index code by email; Otherwise by request in the EV Room
• Needed to
  – Check your progress
  – Schedule the labs
BONUSES

• Discount of one question
  – From now through 9 June, just 12 correct answers will be sufficient to earn mastery of evaluations 2, 3, and 4
  – From now through 12 June, just 12 correct answers will be sufficient to earn mastery of evaluations 5, 6, and 7

• Bonus Unit
  – Completion of Labs 2-7 on or before 12 June earns as a bonus mastery of Unit 54
UNIT 51

• Easy Unit
• Temporary planetarium
  – CAROLINA COLESIUM (Concourse)
• Only available Wednesday, June 11th
  – 11:00 am, 1:00 pm, and 2:00 pm
  – Lasts 50 min.
• You must be on time — door is locked
• Bring your Carolina Card ID to get the credit
Planetarium Entrance
OBSERVATORY UNITS

• Units 45-50, 55, and 59-60 conducted at the Melton Memorial Observatory
• Only some of these offered each semester
• Unit 55 offered during the day, others after sunset
• Sign-up sheets posted on the bulletin board outside PSC 007C
• Cancelled on account of poor “seeing”
• Highly encouraged
MELTON MEMORIAL OBSERVATORY
Introduction to Web
Astronomy Center at USC

The Astronomy Center is located on the basement level (map) of the Jones Physical Science Building (PSC) and is where students enrolled in the self-paced astronomy courses may study, take tests, and complete required labs. These pages contain information about Astronomy at USC and also contain links to a variety of astronomically interesting sites for anyone else interested in astronomy.

Course Announcements

05.03.11... Some important dates for the Summer I semester:

*Summer I classes will begin on Monday, May 30. There is a mandatory orientation meeting on this day for new ASTR 111 and/or 111A students. The time of this orientation depends on the section in which you are registered.

*Lab orientation (Lab 0) will take place on Tuesday, May 31. You will sign up for this time during the first class meeting.

*The regular lab schedule will begin on Wednesday, June 1.

See all course announcements...

Observatory Unit Status

<table>
<thead>
<tr>
<th>Date</th>
<th>Unit</th>
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<tr>
<td>Index Code:</td>
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Log In
Astronomy Center
Self-Paced Courses

Course Enrollment
Course | Grade | Semester
--- | --- | ---
ASTR 111 | B+ | Fall '13

Course History
Course | Grade | Semester | Units Credited
--- | --- | --- | ---

Progress
The results of the progress check:

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<th>Total</th>
<th>Unit #s</th>
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<td>-</td>
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<tr>
<td>Lab</td>
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<td>Lab Completed, Need</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>Available for Credit</td>
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<td>-</td>
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<tr>
<td>Previously Used</td>
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<td>Fall 2013 (1, 2, 3, 4, 5, 6, 7, 8, 11, 15, 26, 28, 32, 36, 38, 44, 51)</td>
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<tr>
<td>Currently Valid Prelabs</td>
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<td>-</td>
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<tr>
<td>Late Lab Sign-ups</td>
<td>2</td>
<td>-</td>
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<tr>
<td>Forgiven</td>
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<tr>
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<td>-</td>
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<tr>
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<td>-</td>
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<tr>
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</table>

Lab Schedule
You have signed up for the following labs:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Day</th>
<th>Date</th>
<th>Start Time</th>
<th>Room</th>
<th>Scheduled Instructor</th>
<th>Valid Prelab</th>
<th>Cancel Lab</th>
</tr>
</thead>
</table>

- **Sign Up for Labs**
- **How Lab Scheduling Works**

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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sample Questions

*Required field

Sample Questions for Units and Objectives

Enter which unit and type of question and the objective you would like to see sample questions from. Two questions will be returned. This does not affect your daily limit, nor does it apply toward your grade.

Type:  
- Unit Exam
- Prelab Exam

* Unit: 3
* Objective: 3a

View Examples

Look Up Specific Questions

If you have taken an exam with a question on it you missed and would like to see the question, please enter the Question Number (QID) below and the question will be returned to you with the correct answer indicated.

* Question Number (QID):

View Question
Sample Questions

* Required field

Sample Questions for Units and Objectives

Enter which unit and type of question and the objective you would like to see sample questions from. Two questions will be returned. This does not affect your daily limit, nor does it apply toward your grade.

Type:  
- Unit Exam
- Prelab Exam

* Unit: [0]
* Objective: 

View Examples

Look Up Specific Questions

If you have taken an exam with a question on it you missed and would like to see the question, please enter the Question Number (QID) below and the question will be returned to you with the correct answer indicated.

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View Question

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<tbody>
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<tr>
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<td></td>
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<tr>
<td>----------</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td>Day:</td>
<td>✔ Mon  ✔ Tue  ✔ Wed  ✔ Thu  ✔ Fri  ✔ Sat  ✔ Sun</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td>From 01/10/2011 (mm/dd/yyyy) To 04/24/2011 (mm/dd/yyyy)</td>
<td></td>
</tr>
<tr>
<td>Time:</td>
<td>✔ Morning(9 AM-12 PM)  ✔ Afternoon(12 PM-5 PM)  ✔ Evening(5 PM-9 PM)</td>
<td></td>
</tr>
<tr>
<td>Name of Instructor:</td>
<td>(Any part of Name)</td>
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</table>

[Search]
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<tr>
<th>UNIT</th>
<th>DAY</th>
<th>DATE</th>
<th>START TIME</th>
<th>ROOM</th>
<th>SCHEDULED INSTRUCTOR</th>
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<td>10</td>
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</table>
SUMMARY OF THE COURSE
EV’s and Pre-Labs

• Check in
• Go to the testing computer
• Answer the questions
• Submit your answers & get the result immediately (mastery/no mastery)
• Pick up your receipt with info
  – KEEP IT FOR YOUR RECORDS!
Laboratories

• Bring your Carolina Card ID, Lab pages, calculator, and a pencil
• Be on time
• Check in
• Submit your lab pages
• Check out
  – Receive credit for the lab
Milestones

To prevent procrastination:

• **Milestone 1**
  – Complete Unit 1 no later than 6 June

• **Milestone 2**
  – Complete Unit 1 and three required units no later than 12 June
Oath Sheet

To understand what constitutes cheating in ASTR courses and to avoid such activities

• At Lab 0 you will be given a sheet.
• Read, sign, and submit the sheet to pledge your adherence to the Code of Academic Responsibility.
• Submission of the sheet is a prerequisite for evaluations and pre-labs.
Homework

• Sign up for Lab 0 and optionally Planetarium show
• Read vii-xii pages of “Contents and Introduction” file in the Study Guide
• Study Unit 1
• Tomorrow show up for Lab 0 at the time you signed up for
Good Luck & Work Hard!