

LIU – POST

AST 10.001

Arvind Borde, Introductory Astronomy II, Spring 2020

3 credits

Classes: Tu, Th: 11:00–12:20 a.m., PH 232.

Website: <http://arvind-borde.org/courses/ast10/>

Instructor: Arvind Borde | <http://arvind-borde.org/>

Email: arvind.borde@liu.edu

I'll try to answer all emails promptly, but there are a few simple rules you must follow. You should say, either in the subject line or the first line of the body, what class you're in and what time we meet. You should then immediately say what your question or comment is, as concretely as possible. Questions whose answers are available to you (on this syllabus, for example) will go to the bottom of the pile, as will email that does not follow the rules above. These may go unanswered. Questions requiring long answers are best asked in person. You may get straight to your question without formally addressing me, but if you do address me, the correct forms are "Prof. Borde," or "Dr. Borde," not just "Professor," or "Hey Professor," just as I will not address you as "Student," or "Hey Student."

Office: PH 235; telephone: (516) 299 2447. Hours: T, Th, 12:30–2:00 pm, or by appointment.

Bulletin: Astronomy 10 is half of a one-year course in introductory astronomy. Topics include the origin, nature, and evolution of stars, nebulae, galaxies, and the universe. No pre- or co-requisites. Students taking this course to fulfill the science core requirement must take AST 10A - Astronomy Lab.

Text, etc.: The basic textual tool will be the course workbook. There will be some additional assigned readings. You'll use <http://www.nasa.gov/topics/universe/> as a reference.

Services: If you're a student with a documented disability, medical condition, or think you may have a disability, and will need accommodations, academic adjustments, auxiliary aids, or other services, please contact Marie Fatscher in Disability Support Services (Post Hall, Lower Level, C10) at 516-299-3057 or marie.fatscher@liu.edu to request services, accommodations or for additional information. Additional information is also available on the DSS website: www.liu.edu/post/dss.

The Center for Healthy Living offers supportive psychological and nutritional services Monday–Friday 9 am to 5 pm and is located in Post Hall, Lower Level – South Entrance (parking lot side of building.) Additional information is available by emailing post-healthyliving@liu.edu or calling Lynne Schwartz at (516) 299-4162.

Rules: **Do:** Attend all classes, come on time, stay for the duration, pay attention. You're expected to take notes in the printed course workbook. You may use a computer/tablet, if you insist, but must sit in the first row.

Don't: Miss classes without documented reasons, come late, leave during class, talk among yourselves, be disruptive, text, have your cell phone out. A "no visible cellphones" policy will be strictly enforced. Documents justifying an absence must be submitted in printed form, not electronically, and must have the date and time of the absence on them. If you violate any of these, it will count as an absence, and penalties will be imposed, including grade reduction.

Three or more violations (two or more for classes that are scheduled for over two hours) will lead to an automatic F.

Homework: Weekly homework is on the website. You must attempt it the day it is assigned. If you have difficulties, see me or a tutor *that week itself*. HW will be discussed in the class immediately following. Specific questions will be answered in class, but not general ones about the whole assignment. You must have the homework available in a separate notebook or folder, with your name on each assignment, or clearly marked as such in the class workbook. You must bring the homework and class workbook with you if you want extra help in my office. It's your responsibility to catch up on material you miss, for any reason. You should expect to spend 6 hours a week on this course outside class.

Tests:

You may use a 3" × 5" notecard on tests. The card must fit within the boundaries of the box around this text. If it doesn't, you can't use it.

Tests will be based mainly on material covered, and homework done, since the material on the previous test, but familiarity with all material covered up to that point is expected. You'll need a dedicated calculator (not cell phone or tablet computer) on all quizzes. You may not share.

There are no make-up tests. If you miss a test for any reason you'll get a score of -1 on it.

You must keep all your tests through the semester. The complete test schedule is on this syllabus.

Grades: First see the rules above. The penalties mentioned there take precedence over everything else. There will be weekly tests. Your 11 best scores each count 9% toward your grade. The remaining 1% will come from attendance. There will be a grade boost if you've done the homework consistently over the term. Further grade boosts are possible for students who participate in class. No private deals for extra credit will be struck with individual students. You will all be treated equally and will all get the same consideration.

Letter Grade Key

%:	50-64	65-71	72-77	78-79	80-83	84-87	88-89	90-93	94+
Grade:	D	C ⁻	C	C ⁺	B ⁻	B	B ⁺	A ⁻	A

Drop, etc.: Last day to drop: February 3. Last day to withdraw: April 3.

Week 1	Tuesday, January 21 Background and overview	Thursday, January 23 Homework 1a review Topic continues		
Week 2	Tuesday, January 28 Our home: The Milky Way Homework 1b review (if needed) <input type="text" value="Test 1"/>	Thursday, January 30 Homework 2a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 3	Tuesday, February 4 The life of stars Homework 2b review (if needed) <input type="text" value="Test 2"/>	Thursday, February 6 Homework 3a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 4	Tuesday, February 11 The death of stars Homework 3b review (if needed) <input type="text" value="Test 3"/>	Thursday, February 13 Homework 4a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 5	Tuesday, February 18 NO CLASS. (Monday schedule.)	Thursday, February 20 Black holes <input type="text" value="Test 4"/>	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 6	Tuesday, February 25 The theory of relativity Homework 5b review (if needed) <input type="text" value="Test 5"/>	Thursday, February 27 Homework 6a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 7	Tuesday, March 3 Light Homework 6b review (if needed) <input type="text" value="Test 6"/>	Thursday, March 5 Homework 7a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Spring Break				
Week 8	Tuesday, March 17 Other galaxies I Homework 7b review (if needed) <input type="text" value="Test 7"/>	Thursday, March 19 Homework 8a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 9	Tuesday, March 24 Other galaxies II Homework 8b review (if needed) <input type="text" value="Test 8"/>	Thursday, March 26 Homework 9a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 10	Tuesday, March 31 The expansion of the universe Homework 9b review (if needed) <input type="text" value="Test 9"/>	Thursday, April 2 Homework 10a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 11	Tuesday, April 7 The big bang theory Homework 10b review (if needed) <input type="text" value="Test 10"/>	Thursday, April 9 Homework 11a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 12	Tuesday, April 14 Cosmic inflation Homework 11b review (if needed) <input type="text" value="Test 11"/>	Thursday, April 16 Homework 12a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 13	Tuesday, April 21 Accelerated expansion and dark energy Homework 12b review (if needed) <input type="text" value="Test 12"/>	Thursday, April 23 Homework 13a review Topic continues	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>
Week 14	Tuesday, April 28 Homework 13b review (if needed) <input type="text" value="Test 13"/>	Final readings	<input type="text" value="score"/>	<input style="width: 20px;" type="text" value="%"/>

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I've understood the syllabus, course requirements, grading method, and rules, and will abide by them. I'm retaining the syllabus.

Signature: _____ Date: _____

Name: _____

Keeping in mind the topics this course is intended to cover, are there things you particularly wish to learn here? Be specific.

1) _____

2) _____

3) _____

4) _____

5) _____

Other comments or requests (if any):