

Course Syllabus

Syllabus for Astronomy 2003

Your Instructors

Professor: Sarah Ballard

- Email: sarahballard@ufl.edu
- Phone: TBD
- Office Hours/Location: Mon after class, Thurs 1 PM, and by appointment/ Bryant Space Science Center 213

TA: Jonah Rose

- Email: j.rose@ufl.edu
- Phone: TBD
- Office Hours/Location: TBD

General Information

AST2003 is survey of our Solar System designed for non-science majors. The only prerequisite for this class is algebra and natural curiosity. We will study the planetary processes that shape our Solar System, compare our Solar System to systems of planets orbiting other stars, and come to appreciate Earth's place—and ours—in the universe.

This course satisfies part of the Natural Sciences General Education requirement. Students who are planning to major in the sciences, or are considering the Astronomy major, are strongly encouraged to take AST3018 instead.

Per UF's remote learning guidelines in the Fall 2020 semester, this course will be fully online. Prof. Ballard will be live broadcasting her lectures. They will also be recorded and posted later that day, for you to rewatch. Lectures in this class are highly interactive! I urge you to view the recorded lectures as a studying tool, rather than watching them after the fact as your primary way of learning.

Materials:

- **The Cosmic Perspective, 9th Edition (“TCP”)** by Bennett, Donahue, Schneider, & Voit. I have requested paper copies for the library, but the online textbook is acceptable

and more affordable (\$59 for both the textbook and the Mastering Astronomy account). If buying the book used or online, check the title and edition carefully: avoid "Essentials..." or "Fundamentals...".

- **A "Mastering Astronomy" account, created through Canvas** (used for problem sets and quizzes). The online textbook purchase comes with access to Mastering Astronomy; both should be \$59.
 - Instructions for accessing Mastering Astronomy:
 - 1. On Canvas, along the left-hand side of the page for this course (under "Syllabus" and other options), click "My Lab and Mastering"
 - Click the yellow "Open MyLab & Mastering" button
 - Sign into your Pearson account, or create a new one.
 - Purchase access either on this site, or enter the access code if textbook was purchased at the UF Bookstore.
 - If you have questions or technical difficulties, contact Pearson Support [here](https://support.pearson.com/getsupport/s/contactsupport) (<https://support.pearson.com/getsupport/s/contactsupport>).

Course Assessment

Your grade is based on:

10%: Preparation/Participation

- weekly online quizzes due at noon each Wednesday (lowest 15% of scores dropped)

30%: Homework

- Old-fashioned paper assignments
- New-fashioned online Canvas+MasteringAstronomy web assignments

Your lowest 15% of homework scores will be dropped .

30%: In-class exams: best 2 of 3 exams (20% each)

30%: Cumulative final exam. Final cannot be dropped.

Note that if you don't do any homework or web assignments, your final grade cannot be higher than a D. There are no makeup exams even for excused absences: many students will have to miss an exam during the semester for a range of valid reasons, and I accommodate that by dropping one score. Late homework loses 50% credit but is still worth doing.

Extra Credit: There will be opportunities for extra credit throughout the semester, including:

- Visiting the Gainesville "solar walk", taking a selfie at the Sun statue and at the Pluto statue, and sending to me or Jonah.
- Presenting a piece of space news in class. Send me the article ahead of time, and talk for ~30 seconds about it at the beginning of lecture.
- Assignments for observing phenomena in the night sky with the naked eye!

Course Calendar

Week	Day	Date	Topic	Reading	What's due
1	Mon	8/31	Welcome/Overview		--
	Wed	9/2	Our Place in the Universe	TCP1	---
	Fri	9/4	Discovering the Universe for Yourself		Quiz1
2	Mon	9/7	Holiday		--
	Wed	9/9	Discovering the Universe for Yourself	TCP2	Quiz2
	Fri	9/11	Discovering the Universe for Yourself		MA1, MA2
3	Mon	9/14	The Science of Astronomy		---
	Wed	9/16	The Science of Astronomy	TCP3	Quiz3
	Fri	9/18	The Science of Astronomy		MA3
4	Mon	9/21	The Science of Astronomy	Chap 1-3 review	OFHW1
	Wed	9/23	EXAM 1		---
	Fri	9/25	Motion-Energy-Gravity		Quiz4
5	Mon	9/28	Motion-Energy-Gravity		---
	Wed	9/30	Motion-Energy-Gravity	TCP4	Quiz5
	Fri	10/2	Earth+Moon/Solar System Formation		MA4

6	Mon	10/5	Solar System Formation		---
	Wed	10/7	Comparison to Exoplanets: Formation	TCP7,8	Quiz6
	Fri	10/9	Geology of the Terrestrial Worlds		MA5
7	Mon	10/12	Geology of the Terrestrial Worlds		---
	Wed	10/14	Geology of the Terrestrial Worlds	TCP9	Quiz7
	Fri	10/16	Comparison to Exoplanets: Geology		MA6
8	Mon	10/19	EXAM 2		---
	Wed	10/21	Light and Matter	Chap. 4, 7-9	Quiz8
	Fri	10/23	Light and Matter	review	OFHW2
9	Mon	10/26	Light and Matter		---
	Wed	10/28	Atmospheres of the Terrestrial Worlds	TCP5	Quiz9
	Fri	10/30	Atmospheres of the Terrestrial Worlds		MA7
10	Mon	11/2	Comparison to Exoplanets: Atmospheres		---
	Wed	11/4	Jovian Planet Systems	TCP10	Quiz10
	Fri	11/6	Jovian Planet Systems		MA8
11	Mon	11/9	Jovian Planet Systems		--
	Wed	11/11	Holiday	TCP11	Quiz11
	Fri	11/13	Jovian Planet Systems		MA9
12	Mon	11/16	Comparison to Exoplanets: Jovians	Chap. 5, 10,	OFHW3
	Wed	11/18	EXAM 3	11	Quiz12

	Fri	11/20	Remnants of Ice & Rock	review	---
13	Mon	11/23	Remnants of Ice & Rock		---
	Wed	11/25	Holiday	TCP12	Quiz13
	Fri	11/27	Holiday		MA10
14	Mon	11/30	PLUTO	TCP12,	--
	Wed	12/2	Exoplanetary systems & Astrobiology	TCP13	Quiz14
	Fri	12/4	Exoplanetary systems & Astrobiology		MA11
15	Mon	12/7	Exoplanetary systems & Astrobiology	TCP13	---
	Wed	12/9	Life in the Universe		---

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/ (<http://www.dso.ufl.edu/drc/>)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu> (<https://evaluations.ufl.edu>). Evaluations are typically open during the last two or three weeks of the semester, but students

will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/> (<https://evaluations.ufl.edu/results/>).

Class Demeanor

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.


University Honesty Policy











UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://sccr.dso.ufl.edu/process/student-conduct-code/> (<https://sccr.dso.ufl.edu/process/student-conduct-code/>)) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.











Counseling and Wellness Center












College can be a very stressful place. For contact information for the Counseling and Wellness Center, look to <https://counseling.ufl.edu/> (<http://www.counseling.ufl.edu>), or call 352-392-1575, 8am-5pm Monday through Friday. If you need mental health services urgently for yourself or others after business hours, phone consultation with a counselor is available 24 hours a day, 7 days a week. Call UF CWC at 352-392-1575 or the Alachua County Crisis Center at 352-264-6789.

Course Summary:

Date	Details
Wed Aug 28, 2019	 Quiz 2 (https://ufl.instructure.com/courses/412342/assignments/4383471) due by 5pm


Date	Details	
Fri Sep 4, 2020	 MA1 (https://ufl.instructure.com/courses/412342/assignments/4383450)	due by 5pm
Fri Sep 4, 2020	 MA2 (https://ufl.instructure.com/courses/412342/assignments/4383453)	due by 5pm
Fri Sep 11, 2020	 Quiz 1 (https://ufl.instructure.com/courses/412342/assignments/4383465)	due by 5pm
Fri Sep 11, 2020	 MA 3 (https://ufl.instructure.com/courses/412342/assignments/4383454)	due by 5pm
Tue Sep 15, 2020	 Old-fashioned homework 1 (OFHW1), due Tuesday 10 September at 5 PM (https://ufl.instructure.com/courses/412342/assignments/4383463)	due by 5pm
Wed Sep 16, 2020	 Quiz 4 (https://ufl.instructure.com/courses/412342/assignments/4383472)	due by 5pm
Wed Sep 23, 2020	 Quiz 5 (https://ufl.instructure.com/courses/412342/assignments/4383473)	due by 5pm
Fri Sep 25, 2020	 MA4 (https://ufl.instructure.com/courses/412342/assignments/4383455)	due by 5pm
Wed Sep 30, 2020	 Quiz 6 (https://ufl.instructure.com/courses/412342/assignments/4383474)	due by 5pm
Fri Oct 2, 2020	 MA5 (https://ufl.instructure.com/courses/412342/assignments/4383456)	due by 5pm
Wed Oct 7, 2020	 Quiz 7 (https://ufl.instructure.com/courses/412342/assignments/4383475)	due by 5pm
Fri Oct 9, 2020	 MA6 (https://ufl.instructure.com/courses/412342/assignments/4383457)	due by 5pm


Date	Details	
Wed Oct 14, 2020	 Quiz 8 (https://ufl.instructure.com/courses/412342/assignments/4383476)	due by 5pm
Thu Oct 15, 2020	 Old-fashioned homework 2 (OFHW2), due Thursday 10 October at midnight (https://ufl.instructure.com/courses/412342/assignments/4383464)	due by 11:59pm
Wed Oct 21, 2020	 Quiz 9 (https://ufl.instructure.com/courses/412342/assignments/4383477)	due by 11:59pm
Fri Oct 23, 2020	 MA 7 (https://ufl.instructure.com/courses/412342/assignments/4383458)	due by 11:59pm
Wed Oct 28, 2020	 Quiz 10 (https://ufl.instructure.com/courses/412342/assignments/4383466)	due by 11:59pm
Wed Oct 28, 2020	 Quiz 11 (https://ufl.instructure.com/courses/412342/assignments/4383467)	due by 11:59pm
Fri Oct 30, 2020	 MA 9 (https://ufl.instructure.com/courses/412342/assignments/4383460)	due by 11:59pm
Sat Oct 31, 2020	 MA8 (https://ufl.instructure.com/courses/412342/assignments/4383459)	due by 11:59pm
Wed Nov 4, 2020	 OFHW3 due midnight on Wednesday 11/6 (https://ufl.instructure.com/courses/412342/assignments/4383461)	due by 11:59pm
Wed Nov 11, 2020	 Quiz 13 (https://ufl.instructure.com/courses/412342/assignments/4383468)	due by 11:59pm

Date	Details	due by 11:59pm
Fri Nov 13, 2020	 MA10 (https://ufl.instructure.com/courses/412342/assignments/4383451)	due by 11:59pm
Wed Nov 18, 2020	 Quiz 14 (https://ufl.instructure.com/courses/412342/assignments/4383469)	due by 11:59pm
Fri Nov 20, 2020	 MA 11 (https://ufl.instructure.com/courses/412342/assignments/4383452)	due by 11:59pm
Thu Dec 3, 2020	 Quiz 15 (https://ufl.instructure.com/courses/412342/assignments/4383470)	due by 11:59pm
Fri Dec 4, 2020	 OFHW4, due Friday at midnight (https://ufl.instructure.com/courses/412342/assignments/4383462)	due by 11:59pm
Thu Dec 10, 2020	 Extra credit (https://ufl.instructure.com/courses/412342/assignments/4383448)	due by 11:59pm
	 Exam 1 (https://ufl.instructure.com/courses/412342/assignments/4383442)	
	 Exam 1 (curved) (https://ufl.instructure.com/courses/412342/assignments/4383443)	
	 Exam 2 (https://ufl.instructure.com/courses/412342/assignments/4383444)	
	 Exam 2(curved) (https://ufl.instructure.com/courses/412342/assignments/4383445)	
	 Exam 3 (https://ufl.instructure.com/courses/412342/assignments/4383446)	

Date**Details**

[/412342/assignments/4383446](https://ufl.instructure.com/courses/412342/assignments/4383446)

 **Exam 3 (curved)**
(<https://ufl.instructure.com/courses/412342/assignments/4383447>)

 **Final Exam**
(<https://ufl.instructure.com/courses/412342/assignments/4383449>)
