



OWENS
COMMUNITY COLLEGE

**Course Syllabus
STEM**

School of Science, Technology, Engineering, and Mathematics

Course Name:	Astronomy
Course & Section Number:	AST101-XXX
Meeting Day(s) & Time(s):	
Credits:	3
Contact Hours:	3
Text:	Explorations, 10th ed., Arny and Schneider
Instructor's Name:*	
Office Hours & Location:	
OCC Phone:	
OCC Email:**	
Additional Contact Information:	

Catalog description:

An introductory survey to cover the moving sky, the solar system and the planets, the sun, stars and their evolution, supernova, pulsars and black holes, galaxies and quasars, cosmology and the big bang theory. Observing sessions supplement the classroom.

Prerequisite/Corequisites:

None

Course Materials:

Explorations: Introduction to Astronomy, 10th Edition. Arny, Thomas., McGraw-Hill Publishers, 2023.

*If a **print book, e-book, or access code** is required for class, you can access the Owens Community College e-Campus Bookstore by accessing the online link, called “Find Books” on the course schedule for each course section. See the example below.*

OER and Owens Community College Library Resources (Open Educational Resources are free online materials for instructor and student use. Some OER material may be available in print in the Owens Community College Library.)

Inclusive Access (I.A.) Materials are included in the cost of the course to save students money through lower negotiated rates with publishers. Courses containing I.A. materials will have it noted on the online class schedule. If your course includes I.A. digital materials, you will receive an email with subject line, “Your inclusive Access Materials,” and it will include any codes or digital links.

The email will come to your Owens Community College email from the Owens e-Campus Bookstore on the first day of class, if not before. Be sure to check your spam (junk email) if you do not find it in your inbox. If the email is not in your inbox or spam folder, contact your instructor immediately. You may also see a folder at the top of your course labelled “Course Materials by eCampus.” This folder will contain any needed codes or links to needed materials.

If the I.A. materials also include a printed book or are in print form, the item will be shipped to your address of record automatically based on your enrollment in the course. Please note that some courses do not include printed materials in I.A and those materials would need to be purchased separately using the link on the course schedule. When you access the Find Books link you will see which items in a course are included in I.A.

What You Will Learn in the Course

Course Objectives:

To provide the student with current basic facts and understanding about the solar system and universe.

Student Learning Outcomes:

Upon completion of this course the student should be able to demonstrate good understanding of the following:

Outcome	Where Assessed
History and contributions of early astronomers	Homework, Test
Basic physics of celestial bodies	Homework, Test
Basics of optical observations	Homework, Test
Basics of planets and their moons of the solar system	Homework, Test
Basics of meteors, asteroids, and comets	Homework, Test
Basics of Sun	Homework, Test
Basics of galaxies and cosmology	Homework, Test

Institutional General Education Competencies:

As a student at Owens Community College, you will take General Education courses as part of your degree program. While specific to the General Education courses, will be reinforced in many of your degree program major courses and may be measured in your capstone course(s) and others as identified.

Academic Support

Disability Services Resource Center: If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center at 567-661-7007, email disability@owens.edu, visit <https://www.owens.edu/disability/>, or stop by College Hall 124.

Tutoring Services: Owens Community College offers academic tutoring and assistance in a variety of subjects including: accounting, computing, economics, mathematics, science, and writing. For more information go to: <https://www.owens.edu/successcenters/>.

Counseling Services: Counseling Services provides assistance to students experiencing personal, educational, interpersonal/relationship, family, social, or psychological difficulties. If you feel you may benefit from this service, please contact them at counselingservices@owens.edu. More information is at <https://www.owens.edu/counseling/>.

Campus and Community Connections: The Center for Campus and Community Connections (College Hall 151) is a walk-in office created to provide retention support through resource stability initiatives and community connections. Go here for more information: <https://www.owens.edu/connection/> or contact connections@owens.edu

Owens Library: The Owens Library offers two locations (Toledo and Findlay) as well as online resources. For more information visit <https://www.owens.edu/library/>.

Students can find more information on campus resources, student support, student life, and security at this [link](#).

General Information

Student Code of Conduct: All students are expected to follow Owens Community College's Student Code of Conduct, which includes academic honesty, encompassing plagiarism. See the Board Policy for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's Anti-Discrimination and Harassment Policy and the College's Title IX Policy/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a written email notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy*. The request for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu. The policy may be found on the Owens website: [3358:11-2-63 Accommodation](#) for a Student Absence for the Observance of Religious Beliefs and Practices Policy

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments including tests and/or quizzes for student learning of institutional general education competencies or program assessment. Please save all your class materials until the end of the semester.

Classroom Admittance: OCC classes shall only be attended by the officially registered OCC students or perspective students, instructor of record, guest lecturer, or substitute. Visitors are not permitted to be in the classroom and should not be invited to attend or participate in the class. See [FERPA](#) regulations for more information.

Use of AI Tools: This course requires you to complete various assignments that assess your understanding and application of the course content. You are expected to do your own work and cite any sources you use properly. You are not allowed to use any artificial intelligence (AI) tools, such as chatbots, text generators, paraphrasers, summarizers, or solvers, to complete any part of your assignments. Any attempt to use these tools will be considered academic misconduct and will be dealt with according to the Owens Community College academic integrity policy. Students are expected to complete all work independently and without the assistance of AI-generated content. If you have any questions about what constitutes acceptable use of AI tools, please consult with the instructor *before* submitting your work.

Student Responsibilities & Instructor Expectations

Evaluation: The student's grade will be based on seven homework assignments, syllabus test, seven tests and a comprehensive final test.

All tests require the LockDown browser to be completed.

Syllabus test: After you read syllabus, schedule file, and study-tips file under Syllabus folder you can take Syllabus test. The purpose of this test is to let you read syllabus and other course documents carefully. You have unlimited trials on Syllabus test. (For other assignments you have only one trial.)

Homework: **First finish the syllabus test to access homework.** Homework is a kind of test on the assigned chapters with mostly about 40 questions. The allotted time for each homework is 180

minutes. When you do homework, you can still learn materials from book or lecture notes, but **you should study textbook and lecture notes thoroughly** before you take homework. There is a time limit too and so you must be careful with time management. Homework doesn't have a physical due date. The due date of homework on schedule file is only for better preparation for tests. So, homework will be available until the last day of semester once it becomes available. But each test will have a strict time-window available. See below.

Test: After you take homework for each test week you can take the test for that week on **Wednesday or Thursday** (These are the only available days in the test week). **The length of allotted time is much shorter than homework**. Basically, you have one minute for each question. So, you have to remember thoroughly everything you learned from book, lecture notes, and homework before you take a test. **Tests are closed book and closed notes (no outside help or assistance on the test)!**

Each test **MAY BE TAKEN ONLY ONCE** and must be taken during the "window of time" specified in the schedule file in syllabus folder of the course Blackboard. **Once a student starts taking a homework or test the computer clock starts ticking and cannot be stopped.** It is very important for each student to carefully plan when to start a test and thus be aware of the time to finish. The questions of each homework or test will be presented one at a time. If you do not know how to answer a question, move to the next question but **DO NOT forget to return and do the one(s) you skipped.** Each student needs to plan the time per question so as to finish the test in the allotted time. **Exceeding the allowed time limit is considered late. Late tests will not be graded.** The tests are closed book & closed notes (no outside help or assistance on the tests)!

Make-up Test Policy : There will be **NO** make-up tests allowed for any reason.

Exceeding the allowed time limit is considered late. Late tests will not be graded. There will be no make-up exams. **A grade of zero will be given for a missed assignment at the end of semester. Missed assignments will not appear on your grade book until the end of semester and so you must expect your grade will be lower than one presented without considering 0 from the missed assignments on your grade book. You can easily figure out any missed assignment by inspecting any missed sequence in homework and test.** The tests are closed book & closed notes (no outside help or assistance on the tests)! Please note that the window to take a test will be open for 48 hours (please see the calendar at the end of this syllabus). **Please try to take the test during the first 45 hours and DO NOT wait until the last hour to take the test.** There will be no make-up tests allowed and extensions to finish the tests will not be allowed.

How Grades are Determined and Major Assignments

Grading Procedure:

The course grade is computed as follows:

Syllabus test	1%
Homework	19%
7 tests	60%
Final exam	20%

Grades will be calculated on the following scale.

90% and Above	A
80% to Less than 90%	B
70% to Less than 80%	C
60% to Less than 70%	D
Less Than 60%	F

Tentative Schedule

Week	Topic
1	Orientation, Chapter 1, Chapter 2 Syllabus test
2~3	Chapter 1, Chapter 2. Syllabus test, HW1 and Test 1
4~5	Chapter 3, Chapter 4. HW2 and Test 2
6~7	Chapter 5, Chapter 6. HW3 and Test 3
8~9	Chapter 7, Chapter 11. HW4 and Test 4
10~11	Chapter 8, Chapter 9. HW5 and Test 5
12~13	Chapter 10, Chapter 12. HW6 and Test 6
14~15	Chapter 13 HW7 and Test 7
16	Final exam

Disclaimer: The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course. Please note that while unlikely, there is a possibility courses might need to change the delivery method due to external issues like public health concerns, weather issues, etc. If this happens, the college will communicate any changes via email and/or other communication methods.