ASTR 1504L - Astronomy Laboratory

Fall 2026 Syllabus, Section 01, CRN 40985,

Credit hours: 1

Instructor

Ashley Skalsky

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Public Instructor Information

Instructor Title: Part-Time Faculty
Instructor Professional Qualifications:

M.S., Medical Physics, Cleveland State University, 2021

M.S., Astronomy, Swinburne University of Technology, 2011

B.S., Physics & Astronomy, Youngstown State University, 2009

Instructor Office Location: Ward Beecher 2010
Instructor Office Phone: 330-941-3616

Course Description

1504L. Astronomy Laboratory. Telescope and Planetarium laboratory work designed to supplement ASTR 1504. Measurement techniques and deductive methods to determine distance and size of astronomical objects. Three hours per week. Prereq. or concurrent: ASTR 1504. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	ASTR 1504L Manual	Durrell	9781645657996

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Wed	8/26		Introduction and First Day Lecture	
Wed	9/2	Introuction of Lab Manual Observing Project Information Experiment 1	The Scale of Things	
Wed	9/9	Experiment 2	Sky Motions	Experiment 1 Worksheet Due at Beginning of Class Observing Schedule Due at Beginning of Class
Wed	9/16	Experiment 3	Kepler's Laws	Experiment 2 Worksheet Due at Beginning of Class
Wed	9/23	Experiment 4	Spectroscopy	Experiment 3 Worksheet Due at Beginning of Class
Wed	9/30	Experiment 5	Telescopes	Experiment 4 Worksheet Due at Beginning of Class September Observations Due at Beginning of Class

Wed	10/7	Experiment 6	Parallax	Experiment 5 Worksheet Due at Beginning of Class
Wed	10/14	Experiment 7	Standard Candles	Experiment 6 Worksheet Due at Beginning of Class
Wed	10/21	Experiment 8	Types of Stars	Experiment 7 Worksheet Due at Beginning of Class
Wed	10/28	Experiment 9	Clusters of Stars	Experiment 8 Worksheet Due at Beginning of Class October Observations Due at Beginning of Class
Wed	11/4	Experiment 10	The Milky Way Galaxy	Experiment 9 Worksheet Due at Beginning of Class
Wed	11/11	No Class		
Wed	11/18	Experiment 11	Galaxy Classification	Experiment 10 Worksheet Due at Beginning of Class Moon Observations Due at the Beginning of Class
Wed	11/25	No Class		
Wed	12/2	Experiment 12	Exoplanets	Experiment 11 Worksheet Due at Beginning of Class November Observations Due at Beginning of Class Experiment 12 Worksheet Due at End of Class
Wed	12/9	No Class		

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.