

ASTR 1504L - Astronomy Laboratory

Fall 2026 Syllabus, Section 03, CRN 40987,

Credit hours: 1

Instructor

Katherine Durrell

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Public Instructor Information

Instructor Title: Part-Time Faculty in Physics and Astronomy

Instructor Professional Qualifications: *Masters, Astronomy, University of Toronto (1994), Physics, University of New Brunswick (1993), YSU Teaching Excellence Award (2018)*

Instructor Office Location: *Ward Beecher 2031*

Instructor Office Phone: *330-941-2690*

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	Astronomy 1504L Ninth Edition	Katherine Durrell	978-1-64565-799-6

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
Tue	8/25	Syllabus	Introduction to the Lab	
Tue	9/1	Introductory Section of the Lab Manual Observing Project Information Experiment 1	The Scale of Things	
Tue	9/8	Experiment 2	Sky Motions	Due 9/8 at 10am: Experiment 1 Observing Schedule
Tue	9/15	Experiment 3	Kepler's Laws	Due 9/15 at 10am: Experiment 2
Tue	9/22	Experiment 4	Introduction to Spectroscopy	Due 9/22 at 10am: Experiment 3
Tue	9/29	Experiment 5	Telescopes	Due 9/29 at 10am: Experiment 4 Due 10/1 at 11:59pm: September Observations
Tue	10/6	Experiment 6	Parallax	Due 10/6 at 10am: Experiment 5
Tue	10/13	Experiment 7	Standard Candles	Due 10/13 at 10am: Experiment 6
Tue	10/20	Experiment 8	Types of Stars	Due 10/20 at 10am: Experiment 7

Tue	10/27	Experiment 9	Clusters of Stars	Due 10/27 at 10am: Experiment 8 Due 11/1 at 11:59pm: October Observations
Tue	11/3	Experiment 10	The Milky Way Galaxy	Due 11/3 at 10am: Experiment 9
Tue	11/10	Experiment 11	Galaxy Classification	Due 11/10 at 10am: Experiment 10
Tue	11/17	Experiment 12	Studying Exoplanets	Due 11/17 at 10am: Experiment 11 Due 11/17 at 11:59pm: Moon Observations
Tue	11/24		Make-Up Labs	Due 11/24 at 10am: Experiment 12
Tue	12/1		Make-Up Labs	Due 12/1 at 11:59pm: November Observations
Tue	12/8		FINALS WEEK: NO LAB	

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.