

PHYS 1506 - Physics for Health Care

Fall 2026 Syllabus, Section 01, CRN 41484,

Credit hours: 3

Instructor

Katherine Durrell

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Public Instructor Information

Instructor Title: Part-Time Faculty in Physics and Astronomy

Instructor Professional Qualifications: MSc., Astronomy, University of Toronto (1994), BSc. (with Honors), University of New Brunswick (1993), YSU Teaching Excellence Award (2018)

Instructor Office Location: Ward Beecher 2031

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Course Description

1506. Physics for Health Care. The basic laws of physics applied to various biological and physiological problems. Designed for majors in the allied health fields, e.g., Respiratory care. Not applicable to the major in Physics or to the combined major in Physics and Astronomy. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Physics, with Health Science Applications 2nd Edition	Paul Peter Urone & R.E. Tremblay	9781524950620

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
Mon	8/24	Chapter 1	Models, Theories and Laws, Units	
Wed	8/26	Appendix A	Mathematical Review	
Fri	8/28	Appendix A	Mathematical Review	
Mon	8/31	Chapter 2	Motion in 1 Dimension	Chapter 1 Test Due 8/31 at 10am: Assignment 1
Wed	9/2	Chapter 2:	Motion in 1 Dimension	
Fri	9/4	Chapter 2:	Motion in 1 Dimension	
Mon	9/7	Labor Day: NO CLASS		
Wed	9/9	Chapter 2:	Motion in 1 Dimension	
Fri	9/11	Chapter 2:	Motion in 1 Dimension	
Mon	9/14	Chapter 2:	Motion in 1 Dimension	
Wed	9/16	Chapter 2:	Motion in 1 Dimension	
Fri	9/18	Chapter 2	Motion in 1 Dimension	Chapter 2 Test Due 9/18 at 10am: Assignment 2
Mon	9/21	Chapter 3	Forces	
Wed	9/23	Chapter 3	Forces	
Fri	9/25	Chapter 3	Forces	

Mon	9/28	Chapter 3	Forces	
Wed	9/30	Chapter 3	Forces	
Fri	10/2	Chapter 3	Forces	
Mon	10/5	Chapter 3	Forces	Chapter 3 Part 1 Test Due 10/5 at 10am: Assignment 3
Wed	10/7	Chapter 3	Torque	
Fri	10/9	Chapter 3	Torque	
Mon	10/12	Chapter 3	Torque	
Wed	10/14	Chapter 3	Torque	
Fri	10/16	Chapter 3	Torque	
Mon	10/19	Chapter 3	Torque	
Wed	10/21	Chapter 3	Torque	
Fri	10/23	Chapter 3	Torque	Chapter 3 Part 2 Test Due 10/23 at 10am: Assignment 4
Mon	10/26	Chapter 4	Torque	
Wed	10/28	Chapter 4	Work, Energy & Power	
Fri	10/30	Chapter 4	Work, Energy & Power	
Mon	11/2	Chapter 4	Work, Energy & Power	
Wed	11/4	Chapter 4	Work, Energy & Power	Chapter 4 Test Due 11/4 at 10am: Assignment 5
Fri	11/6	Chapter 5	Temperature & Heat	
Mon	11/9	Chapter 5	Temperature & Heat	
Wed	11/11	Veteran's Day: NO CLASS		
Fri	11/13	Chapter 5	Temperature & Heat	
Mon	11/16	Chapter 5	Temperature & Heat	
Wed	11/18	Chapter 5	Temperature & Heat	
Fri	11/20	Chapter 5	Temperature & Heat	Chapter 5 Test Due 11/20 at 10am: Assignment 6
Mon	11/23	Chapter 6	Fluids and Pressure	
Wed	11/25	Thanksgiving Break: NO CLASS		
Fri	11/27	Thanksgiving Break: NO CLASS		
Mon	11/30	Chapter 6	Fluids and Pressure	
Wed	12/2	Chapter 6	Fluids and Pressure	
Fri	12/4	Chapter 6	Fluids and Pressure	Due 12/4 at 11am: Assignment 7
Fri	12/11	All Readings	All Covered Material	Final Exam: 8am to 10am

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.