



FLORIDA GATEWAY COLLEGE

PHY2053C 001 – General Physics I

Fall 2024 – A16

Class – Monday/Wednesday, 1:00p – 2:15p

Lab – Wednesday, 4:00p – 6:45p

Building 009, Room 201

Instructor Information

Name: James Givvines, Professor of Physics

Email: james.givvines@fgc.edu or through Canvas message. I should respond to your correspondence within one business day.

Office: Building 4 room 3.

Office Hours: TBA

Office Phone: 386-754-4221

Other Available Hours: call or email to schedule

Course Information

Credits: 4 (3 hours lecture, 3 hours lab)

Requirements Met: AATR, GE, GEC

General Education Area: Group 2 Science

Prerequisites: MAC1105 or a higher mathematics course with a grade of C or better.

Course Description

This course covers four units of introductory physics: Mechanics, Properties of Matter, Heat, and Wave Motion. The main goal is to help you relate physics to your own personal experience in the every-day world. There will be a strong emphasis on both the comprehension of various concepts involved in these four areas and the tools of physics (such as mathematics, graphical analysis and problem solving).

Required Texts/Learning Resources

Urone, P. R., Hinrichs, R., Dirks, K., & Sharma, M. (2022). *College physics*. Found on OpenStax: <https://openstax.org/details/books/college-physics>

Scientific calculator (Graphing is OK).

General Learning Outcomes/Program Learning Outcomes

- **Scientific Reasoning:** Students will apply empirical evidence to evaluate natural phenomenon.

Course Learning Outcomes

At the end of the course, you will be able to:

- Recall the laws and major theories presented.
- Define key terms used throughout physics (found in the Glossary of the textbook).
- Paraphrase or summarize (in writing) the basic concepts of the physics in the four units listed in the Course Description.

- Predict the behavior of various physical systems using knowledge of the correct laws and theories for that system.
- Use the tools of physics such as graphing, calculating, interpolating, and mathematically manipulating the equations that describe the concepts learned.
- Apply both knowledge and comprehension of physics to new situations and systems.
- Plan, organize, and explain the steps taken to solve the problem.
- Use diagrams and graphs effectively.
- Interpret the results.

Critical Dates – Fall 2025

Date	Event
Monday, August 18	Fall A16 and A8 classes start
Monday – Wednesday, August 18-20	Add/Drop period for Fall A8
Monday – Friday, August 18-22	Add/Drop period for Fall A16
Monday, September 1	Labor Day – No Classes
Monday, September 15	Fall B12 classes start
Monday – Wednesday, September 15-17	Add/Drop period for Fall B12
Friday, September 26	Deadline for student-initiated withdrawals – A8
Monday, September 29	Fall B10 classes start
Mon. – Wed., Sep. 29 – Oct. 1	Add/Drop period for Fall B10
Friday, October 10	Fall A8 classes end
Monday, October 13	Fall B8 classes start
Monday – Wednesday, October 13-15	Add/Drop period for Fall B8
Tuesday, November 7	Deadline for student-initiated withdrawals – A16
Tuesday, November 11	Veteran’s Day – No Classes
Monday, November 14	Deadline for student-initiated withdrawals – B12
Thursday, November 18	Deadline for student-initiated withdrawals – B10
Monday, November 21	Deadline for student-initiated withdrawals – B8
Wednesday – Friday, November 26-28	Thanksgiving Break – No Classes
Monday, December 5	Fall A16, B12, B10, and B8 classes end

Schedule of Class Events

Week 1: 8/18 – 8/24

Class Date	Before Class	During Class	After Class
8/18/25	Review syllabus	Scientific Method	
8/20/25	Read Chapter 1 https://openstax.org/books/college-physics/pages/1-introduction-to-science-and-the-realm-of-physics-physical-quantities-and-units	- Sig Fig - Units - Error	Start on Chapter 1 homework

Week 2: 8/25 – 8/31

Class Date	Before Class	During Class	After Class
8/25/25	Read Chapter 2 Sections 1, and 2 https://openstax.org/books/college-physics/pages/2-introduction-to-one-dimensional-kinematics	Velocity and Acceleration	Chapter 1 homework due on Canvas
8/27/25	Read Chapter 2 Sections 3, 4 and 5	Velocity and Acceleration	Start on Chapter 2 homework

Week 3: 9/1 – 9/7

Class Date	Before Class	During Class	After Class
9/1/25	NO SCHOOL	Labor Day - NO SCHOOL	NO SCHOOL
9/3/25	Read Chapter 2 section 6, 7 and 8	Velocity and Acceleration	Chapter 2 homework

Week 4: 9/8 – 9/14

Class Date	Before Class	During Class	After Class
9/8/25	Read Chapter 3 section 1, 2 and 3 https://openstax.org/books/college-physics/pages/3-introduction-to-two-dimensional-kinematics	Velocity and Acceleration	- Chapter 2 homework due on Canvas - Start Chapter 3 homework
9/10/25	Read Chapter 3 section 4 and 5	Velocity and Acceleration	Chapter 3 homework

Week 5: 9/15 – 9/21

Class Date	Before Class	During Class	After Class
9/15/25	Read Chapter 4 section 1, 2, 3 and 4 https://openstax.org/books/college-physics/pages/4-introduction-to-dynamics-newtons-laws-of-motion	Newton's Laws	Chapter 3 homework due on Canvas
9/17/25	Read Chapter 4 section 5 and 6	Solving Force Equations	Start Chapter 4 homework

Week 6: 9/22 – 9/28

Class Date	Before Class	During Class	After Class
9/22/25	Read Chapter 4 section 7 and 8	Solving Force Equations	Chapter 4 homework
9/24/25	- Read Chapter 5 section 1 https://openstax.org/books/college-physics/pages/5-introduction-further-applications-of-newtons-laws	Solving Force Equations	Turn in Chapter 4 homework on Canvas

Week 7: 9/29– 10/5

Class Date	Before Class	During Class	After Class
9/29/25		Solving Force Equations	Chapter 5 homework
10/1/25	Attempt the review guide	Midterm Review	

Week 8: 10/6 – 10/12

Class Date	Before Class	During Class	After Class
10/6/25	Study the review guide and previous homework and quiz materials	Midterm Exam	Turn in Chapter 5 homework on Canvas
10/8/25	Read Chapter 7 section 1, 2 and 3 https://openstax.org/books/college-physics/pages/7-introduction-to-work-energy-and-energy-resources	Work and Energy	Start Chapter 7 homework

Week 9: 10/13 – 10/19

Class Date	Before Class	During Class	After Class
10/13/25	Read Chapter 7 section 4, 6 and 7	Work and Energy	Chapter 7 homework
10/15/25		Work and Energy	Chapter 7 homework due on Canvas

Week 10: 10/20 – 10/26

Class Date	Before Class	During Class	After Class
10/20/25	Read Chapter 8 section 1, 2 and 3 https://openstax.org/books/college-physics/pages/8-introduction-to-linear-momentum-and-collisions	Momentum	Chapter 8 homework
10/22/25	Read Chapter 8 section 4, 5 and 6	Momentum	Chapter 8 homework due on Canvas

Week 11: 10/27 – 11/2

Class Date	Before Class	During Class	After Class
10/27/25	Read Chapter 6 section 1, 2, 3 and 4 https://openstax.org/books/college-physics/pages/6-introduction-to-uniform-circular-motion-and-gravitation	Rotational Kinematics	Start Chapter 6 homework
10/29/25	Read Chapter 9 section 1 and 2 https://openstax.org/books/college-physics/pages/9-introduction-to-statics-and-torque	Torque	- Chapter 6 homework due on Canvas - Start Chapter 9 homework

Week 12: 11/3 – 11/9

Class Date	Before Class	During Class	After Class
11/3/25	Read Chapter 9 section 3 and 4	Torque	Chapter 9 homework due on Canvas
11/5/25	Read Chapter 10 section 1, 2, 3 and 4 https://openstax.org/books/college-physics/pages/10-introduction-to-	Rotational Energy	Start Chapter 10 homework

Class Date	Before Class	During Class	After Class
	rotational-motion-and-angular-momentum		

Week 13: 11/10 – 11/16

Class Date	Before Class	During Class	After Class
11/10/25	• Read Chapter 10 section 5	• Rotation: Energy	• Chapter 10 homework
11/12/25	•	• Rotation: momentum	• Chapter 10 homework due on Canvas

Week 14: 11/17 – 11/23

Class Date	Before Class	During Class	After Class
11/17/25	• Read Chapter 13 section 1 and 5 • Read Chapter 14 section 1 and 2 https://openstax.org/books/college-physics/pages/13-1-temperature	• Temperature	• Start Chapter 13 homework
11/19/25	• Read Chapter 14 section 3 and 4 • https://openstax.org/books/college-physics/pages/14-introduction-to-heat-and-heat-transfer-methods	• Heat	• Start Chapter 14 homework

Week 15: 11/24– 11/30

Class Date	Before Class	During Class	After Class
11/24/25	Attempt the review guide	• Final Exam review	• Chapter 13 homework due on Canvas • Chapter 14 homework due on Canvas
11/26/25	• NO SCHOOL	• Thanksgiving Break - NO SCHOOL	• NO SCHOOL

Week 16: 12/1 – 12/8

Class Date	Before Class	During Class	After Class
12/1/25	• Attempt the review guide	• Final Exam • 11:30 am – 2:15 pm	•
12/3/25	•	• No Class scheduled as per the Final exam schedule	•

Student Expectations

Attendance

Attendance will be taken each day but is not a component of your grade. However, it is your professor's opinion that missing more than 3 days in a term will likely be a negative effect on your grade.

Courtesy and Student Conduct Code

We will engage in both classroom discussions and group learning. Please take care to respect your classmates during these activities.

Late Work

Late work will have a 10% penalty.

Grading Policies (Student Performance Measures)

Learning Activities

Homework (10%): Homework is from the textbook and will be turned in on Canvas.

Labs (20%): Labs will often have material to turn in.

Quizzes (40%): Quizzes are frequent and done in class.

Midterm (15%): covering the first half of the course.

Final Exam (15%): A comprehensive final exam.

Grading Scale

A – 90% - 100%

B+ – 87% - 89.9%

B – 80% - 86.9%

C+ – 77% - 79.9%

C – 70% - 76.9%

D – 60% - 69.9%

F – 59.9% or below

Returning Grades

I will grade most assignments within one week of the due date. For more expansive assignments, I will return them within two weeks. This gives me ample time to provide constructive, useful feedback to help you progress and grow as a student in this course.

Student Support and Tech Needs

This course requires students to have access to a computer and the internet. For those students who do not own a computer, computer labs are available on the FGC campus and in public libraries. Students without internet can come to the FGC campus, go to local public libraries, coffee shops, etc.

Minimal technical skills require for this course include the ability to use Microsoft Office products and navigate the Internet.

If you have any additional questions, please contact IT at 386-754-4408. You can also email the Florida Gateway College helpdesk at helpdesk@fgc.edu.

Florida Gateway College Policies and Statements

The Library

The Wilson S. Rivers Library is located in Building 200 and also includes millions of e-books and articles (<https://www.fgc.edu/academics/library/>). The library has more than 70 computers with 50 pages daily of free B&W printing for students. There are also small and large study rooms available for two hours at a time. Click the link above for more information. Librarians are available to assist with research help, and there are helpful videos on library searching and citation help here: (<https://www.fgc.edu/academics/library/research-help-and-guides/>).

Phone- 386-754-4401

Email- library@fgc.edu

[Ask-A-Librarian](#) text and chat

Fall & Spring Semester Library Hours

Monday – Thursday: 7:30 am – 7:30 pm

Friday: 9:00 am – 4:00 pm

Saturday: 1:30 pm – 5:30 pm

Sunday: CLOSED

Summer Semester Library Hours

Monday – Thursday: 7:30 am – 6:30 pm

Friday: CLOSED

Saturday & Sunday: CLOSED

Student Success Center (SSC)

The Student Success Center (SSC) is located in Building 008. The SSC offers a variety of resources for students and faculty. Access to computers and limited printing is available. Copies of reference books, textbooks, access to course specific software, and access to tutors for all levels of math and writing are

available in the SSC. Tutoring in other subjects is also offered. The SSC provides space for students to study in subject specific learning groups. Stop by or call the Student Success Center to request the most current tutor schedule (386-754-4382).

Fall Semester SSC Hours

Monday--Thursday: 8:00am – 6:00 pm

Friday: 9:00am – 4:30pm

Spring Semester SSC Hours

Monday--Thursday: 8:00am – 6:00 pm

Friday: 9:00am – 4:30pm

Summer Semester SSC Hours

Monday – Thursday: 7:30 am – 5:00 pm

If you have any questions, you may contact the center by phone at 386-754-4479, 386-754-4382, or by emailing Christina Slater at christina.slater@fgc.edu.

EAB Navigate

The SSC initiates student progress reports to the entire campus through EAB Navigate. EAB Navigate is an early-alert tool designed to identify students who may be susceptible to falling behind in their course before they actually do.

Twice during the semester, we provide instructors with the opportunity to ALERT students of their course progress. This is done through the FGC Wolves email account. Students may receive an email stating their success may be at risk in a specific course. If you receive this email, DO NOT PANIC. Please contact your instructor directly, your academic advisor, and the SSC. Your instructor's information is provided in the email.

Navigate Student is a mobile app designed to support students during their academic careers at FGC. Navigate Student is the ultimate student resource that acts as a personal advisor and provides students with the information they need, when they need it. Additionally, students may make an appointment with an advisor, view campus events, be alerted on important to-do's, view class schedules, explore their major, and much more.

Please do not allow yourself to struggle. We are here to help you achieve success. The mission of the SSC is to help encourage and promote your educational journey here at FGC and beyond.

Class Recording

A student shall not make a recording in class unless the recording is limited to the class lecture, and

1. the recording is made for the student's personal educational use,
2. in connection with a complaint to the college, **or**
3. as evidence in or in preparation for a criminal or civil proceeding.

Students are not permitted to record in class, through any means over any medium, any academic or other activity that is not a class lecture. A recording of any meeting or conversation between students, or between students and faculty, is strictly prohibited unless all parties have consented to such recording. A recording of a class lecture may not be published without the prior express written consent of the recorded faculty member.

Resource Information

Florida Gateway College has partnered with **BetterMynd**, (<https://www.bettermynd.com/students>) an online therapy platform for college students, to offer our students access to free video-therapy sessions with their diverse network of licensed mental health counselors.

Florida Gateway College students can now access free online therapy sessions on the BetterMynd platform with the counselor of their choice. These 50-minute, live video-sessions are private, confidential, and can take place from the convenience of your laptop, smartphone, or tablet. Sessions are available during the day, at night, and on the weekends.

To register and get started with a counselor that's a good fit for you, sign-up here. (<https://app.bettermynd.com/register>)

If you have any questions about these services, you can email BetterMynd at students@bettermynd.com.

If you are in the need of additional resources please contact the Director of Student Life, Amy Dekle, at amy.dekle@fgc.edu, or by visiting Building 007.

Academic Appeal; Grievances; General Complaint

If a student wishes to file an academic appeal, grievance, or general complaint, please visit the college's website. Under Students and the Complaints & Appeals section (<https://www.fgc.edu/students/complaints-and-appeals/>), information regarding policy, procedure, and forms related to these topics is provided.

College Course Withdrawal and Drop Process

A course may be dropped only during the published add/drop period. After add/drop, students must withdrawal from their course. Please visit the [College Catalog](#) for more detailed information about the drop and withdrawal process.

Students are responsible for withdrawing by the published deadline. Students must allow sufficient time for the process to be completed. **The fully approved withdrawal form is due to Enrollment Services by 4:30 p.m. on the deadline posted on the [Academic Calendar](#) or it is considered late.**

To withdraw from a course, the following steps must take place:

1. The student obtains the instructor's authorization and last date of attendance in person or via email.
2. The student meets with an academic advisor, who will sign the form (Building 14). Or, if an online student, emails the advisor a statement requesting a withdrawal from the course. The email must include the instructor's email with the last date of attendance.
3. The advisor will complete a withdrawal form, attach the emails from the student and instructor in lieu of signatures and forward the form to Financial Aid.
4. A Financial Aid representative will complete and sign the form and forward the form to Enrollment Services to be processed.

Students are strongly encouraged to begin the withdrawal process the day **before** the withdrawal deadline to allow sufficient time for the process to be completed by all offices involved (Instructor, Advising Services, Financial Aid, Enrollment Services).

It is the student's responsibility to understand all financial and academic implications of the withdrawal. Students are permitted a maximum of two (2) withdrawals per course. Upon the third attempt, a student must receive a grade for the course. Absence from class or merely notifying the professor does not constitute withdrawal. A student who stops attending class without withdrawing will receive a grade from the instructor.

Incompletes

Incomplete grades are reserved for students who are unable to complete a course and the withdrawal date has passed. A student should only be issued an incomplete if at least 75% of the course assignments have been submitted and the student can reasonably complete the remaining assignments **within the first three weeks** of the next term to earn a passing overall grade. Otherwise, students should be issued the earned letter grade in the course at the end of the current term.

The **Incomplete Grade Request Form** must be completed and submitted for approval by the **FIRST day of Final Exams and BEFORE** issuing the "I" grade. The instructor will describe the circumstances leading up to the requested "I" for the course, and list the missing assignments, quizzes, exams, and any other course requirements needed to satisfactorily complete the course **within the first three weeks** of the next term. The form must be signed by the instructor, student, and the Dean/Executive Director over the program. Once all participants have signed, an approval email will be sent to the instructor for authorization to assign the "I" grade.

Student Communication Standards

You are expected to communicate in a professional and respectful tone with the instructor and fellow classmates. All written communication (in email correspondence, discussion forums, assignments, quizzes and exams, etc.) must use proper written English. Please refrain from using online and texting abbreviations and language. Oral communications, if applicable, must be made with a respectful tone and body language. Use proper [netiquette](#) throughout!

Academic Honesty

At Florida Gateway College, we value the development of critical thinking, effective communication, and academic growth. To ensure fairness and uphold the principles of academic integrity, any instances of academic dishonesty (i.e., cheating, plagiarism, bribery, misrepresentation, fabrication, unauthorized use of AI technologies, etc.) are not permitted and will be dealt with severely. Students should make themselves aware of the student code of conduct found in the Student Handbook. We believe in your ability to think critically and develop your own unique perspectives. By adhering to these guidelines and committing to the principles of academic integrity, you will not only enhance your learning experience, but also foster an environment of trust and respect within our academic community.

Use of AI Technologies

The use of AI technologies to generate or assist in the creation and completion of assignments is strictly prohibited, unless explicitly allowed by the instructor as described in the course syllabus. It is your responsibility to read this thoroughly and carefully at the beginning of the semester.

Your assignments should reflect your own thoughts, analysis, and original work. Florida Gateway College employs the use of AI detection tools to assess the authenticity of your assignments. These tools are designed to identify instances of cheating and plagiarism, including the use of AI technologies. Any submissions that violate this policy will be subject to disciplinary action. If you have any questions or concerns regarding the use of AI technologies in your courses, please review your course syllabus or reach out to your instructor for clarification.

Civil Rights and Compliance Statement

Florida Gateway College does not discriminate in education or employment related decisions on the basis of race, color, ethnicity, national origin, gender, religion, disability, age, marital status, genetic information, sexual orientation, pregnancy, or any other legally protected status in accordance with the law. The Civil Rights & Compliance Officer is Cassie Buckles, Executive Director of Human Resources, Building 001, Room 116, 149 SE College Place, Lake City, FL 32025, and may be reached at cassandra.buckles@fgc.edu or by phone at 386-754-4313.

Disability Statement

The Office of Accessibility Services (OAS) is a resource for both students with disabilities as well as faculty. Students with disabilities in need of academic accommodations must first be registered with the OAS to verify the disability, establish eligibility, and determine reasonable academic accommodations.

After registering with the OAS, students must request their academic accommodation letters be sent to them each semester to share with their instructors. Upon receipt of the letter, the instructor will be available during office hours or via email to discuss the accommodations a student will need during the course.

Students with disabilities who are not registered with the OAS or faculty who may have questions or concerns regarding an accommodation, please contact the office at the following:

In person: Building 007, Room 107
Phone: (386) 754-4393
Email: Accessibility.Services@fgc.edu

FERPA Statement

The Family Educational Rights and Privacy Act (FERPA) provides certain privacy rights to students related to educational records. This information can be found in the College Catalog, at the Office of Enrollment Services in Building 015 or on the Florida Gateway College website (www.fgc.edu/students/registration-and-records/ferpa/).

SACSCOC Statement

Florida Gateway College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate and associate degrees. Florida Gateway College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Florida Gateway College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Honorlock Statement

Florida Gateway College has partnered with Honorlock, an online testing proctoring service. If off-campus remote proctoring is required during any course, Honorlock will be the online proctoring service that allows you to take your exam. You **DO NOT** need to create an account, download software or schedule an appointment in advance. Honorlock is available 24/7 and all that is needed is a computer, a working webcam, and a stable Internet connection.

To get started, you will need to download the Honorlock Chrome Extension using Google Chrome. You can download the extension on the Honorlock website (www.honorlock.com/install/extension/). When you are ready to test, log into the LMS, go to your course, and click on your exam. Clicking **Launch Proctoring** will begin the Honorlock authentication process, where you will take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session by webcam as well as recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Honorlock support is available 24/7/365. If you encounter any issues, you may contact Honorlock by live chat, by phone at 844-243-2500, and/or by email at support@honorlock.com.

If you encounter a Canvas issue, please contact Canvas via the Canvas Help menu or by clicking the **Canvas Support** link within your course(s).

Turnitin Statement

Instructors may require writing assignments to be submitted to Turnitin when uploaded to Canvas. Turnitin is an internet-based service that looks for similarities and potential plagiarism by comparing

your assignment submissions with its massive database of student work (including previous student submissions at Florida Gateway College), the Internet, and its entire archive, books, and journal and reference publications. Turnitin generates a [similarity report](#), which can help you and your instructor determine whether you used sources fairly and ethically, cited correctly, and paraphrased effectively.

You are encouraged to submit your written work to Turnitin prior to assignment deadlines, whether through Canvas or [Draft Coach](#). If needed, that would allow you time to review the [library's research and help guides](#) or seek writing assistance from your instructor or a tutor in the Student Success Center.

Mission Statement

The mission of Florida Gateway College is to provide superior instruction, nurture individual development, foster career readiness, and enrich the diverse communities it serves through affordable, higher quality education programs and lifelong learning opportunities.