

SOUTH GEORGIA STATE COLLEGE
Principles of Physics I Syllabus

Dr. Charles Johnson
 121 B Stubbs Hall (Douglas)/ 146 Administrative Building (Waycross)

Office Hours:

Dr. Johnson's Class Schedule For Fall 2015					
	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:59 AM	PHYS 1111/2211	Office Hour	PHYS 1111/2211		
9:00-9:59 AM	8:00-9:15	Office Hour	8:00-9:15		
10:00-10:59 AM	Office Hour		Cabinet Meeting	Office Hour	
11:00 -11:59 AM	Office Hour			Office Hour	
12:00-12:59 PM					
1:00-1:59 PM	PHYS 1111 Lab	PHYS 1111/2211			
2:00-2:59 PM	1:00-2:50 PM	1:00-2:50*	Office Hour	Office Hour*	
3:00-3:59 PM	PHYS 2211 Lab	PHYS 1111/2211	Office Hour	PHYS 1111/2211	
4:00-4:59 PM	3:00-4:50 PM	3:00-4:15*		3:00-4:15*	
5:00-5:59 PM		Office Hour*		Office Hour*	
* On the Waycross Campus					

Email: charles.johnson@sgc.edu

Office Phone Number: Douglas (912-260-4338)/Waycross (912-449-7561)

Course Title: Principles of Physics I

Course Description from College Catalogue: PHYS 2211K Principles of Physics I

An introductory course which includes material from mechanics, thermodynamics, and waves. Elementary differential calculus is used. Prerequisite or Corequisite: MATH 2253 Prerequisite: Passing or exempting ENGL 0989. 3-2-4

Required Textbook:

Authors	Title	Publisher	Edition
Halliday, Resnick and Walker	Fundamentals of Physics	Wiley	10 th

Student Learning Outcomes:

1. Analyze and solve kinematical problems for systems moving in one and two dimensions using pictorial, graphical, physical, or mathematical representations (including calculus and vectors) of the system, and other representations as appropriate.
2. Analyze and solve statics and dynamics problems using Newton's laws in one and two dimensions using multiple representations including free-body diagrams and mathematical descriptions (including calculus and vectors) of the system.
3. Analyze and apply the conservation laws (energy and momentum) for linear and rotational systems, and develop solutions using multiple representations, including pictorial, graphical, or mathematical (including calculus and vectors) descriptions as appropriate.

Methods of Evaluations:

The student is expected to participate in laboratory experiences as well as classroom experiences. There will be no make-up labs, so make sure to attend each week. After the lab the write ups are due the next class meeting.

Homework will be assigned each week. The homework will consist of problems from the textbook. The homework is due during the next lab period. Homework will not be accepted after the day of lab. No excuse will be accepted for turning in late homework. Each problem will be worth 2 points. I will post the homework solutions on the class web site for you review.

Although you may discuss the homework with your classmates, all work handed in must be your own. Copying another person's work is plagiarism, and will be considered cheating. I encourage you to talk with others in order for you to get a general understanding of the work. However, each person must work out detailed solutions of the problems individually. Doing the homework is the best way to prepare for the exams, since test questions will be similar to problems assigned for homework.

During the last 15 minutes of lab there will be a homework quiz. This quiz will consist of one problem similar to the homework. If you have done the homework yourself, you should be able to do the quiz problem.

At the start of each class there may be a short quiz. If you are late for class, you will get a zero for that day's quiz.

Three tests and a comprehensive final exam will also be given during the semester.

Grading Scale:

Grade Break Down	Percent	Course Grade	Letter Grade
Lab write-ups	14%	90 or above	A
Homework	7%	80-89	B
Homework Quizzes	9%	70-79	C
3 Tests @ 16% each	48%	60-69	D
Final Exam	20%	Less than 60	F
Quizzes	2%		

Additional Faculty Instructions/Course Requirements:

Classroom rules of conduct

For the benefit of your fellow students and your professors, you are expected to practice common courtesy with regard to all course interactions. For Example:

- **Show up for class on time.**
- **Do not talk during class lectures.**
- **Turn off your cell phone.**
- Do not leave class early, and do not rustle papers in preparation to leave before class is dismissed.
- Be attentive in class; don't study for your other classes, etc.
- If you must be late or leave early on, a particular day please inform your professor in advance.

Attendance Policy

Attending class regularly allows you to interact with instructors and other students in the learning process. Students are responsible for attending class and for the material presented in all classes. At the beginning of each semester, all instructors will inform students of policies regarding class absences. Instructors are responsible for counseling with students regarding the consequences of absences from classes or laboratories. Students may independently withdraw from a class by completing the necessary paperwork at the Registrar's office. A non-punitive grade for courses dropped after the published deadline can be assigned only with the approval of the Vice President for Student Success and in cases of extenuating personal hardship.

Requirements and Policies on Testing, Make Up Exams Specific to the Course:

Tests missed due to excused absences must be made up within five school days of the student's return to class; otherwise a grade of zero will be assigned. It is the student's responsibility to arrange with the instructor to makeup the missed work.

Plagiarism

Plagiarism involves two kinds of wrongdoing. Using another person's ideas, information, or expressions without acknowledging that person's work constitutes intellectual theft. Passing off another person's ideas, information, or expressions as your own to get a better grade or gain some other advantage constitutes fraud. Plagiarism is sometimes a moral and ethical offences rather than a legal one since some instances of plagiarism fall outside the scope of copyright infringement, legal offence. Plagiarism is almost always seen as a shameful act, and plagiarists are usually regarded with pity and scorn. They are pitied because they have demonstrated their inability to develop and express their own thoughts. They are scorned because of their dishonesty and their willingness to deceive others for personal gain. The act and practice of plagiarism is not only sometimes criminally prosecutable and always dishonest and shameful, but it is also intellectually lazy and deprives the plagiarist of an education. Examples of plagiarism include:

- Any quotation, or even rewording, paraphrase, or summary of another person's words, thoughts, ideas, opinions, or theories without appropriate acknowledgement. This example would

obviously include any copying and pasting material from any source, including the Internet, regardless of to what degree.

- The presentation in any form of another's artistic, literary, scientific, or other creative work as one's own.
- Allowing someone else to write one's paper; copying, buying, or stealing either in part or in its entirety one's paper from another source such as a book, an article, or the Internet.
- Appropriate acknowledgement includes, but is not limited to, quotation marks around quoted material and citation appropriate to the discipline. See the APA and MLA guidelines in the Hodges' Harbrace Handbook (Glenn and Gray 552-650), available in the campus bookstore. Faculty members reserve the right to add to these rules at their discretion. Any addition to the rules will be plainly stated in said faculty member's syllabus. Ignorance of these rules does not constitute innocence and is not an excuse for plagiarism. Students accused of plagiarism will be referred via the non-criminal incident reporting system to the Student Conduct Board for hearings to adjudicate said accusation. The sanctions for plagiarism include at a minimum a zero grade on the plagiarized assignment and may include failure of the course, suspension and even expulsion from the College. Please refer to the sanctions section of the student handbook for more information.

SGSC Douglas Campus Syllabus Access Statement

If you have a disability and require reasonable classroom accommodations, please see me after class or make an appointment during office hours. □ If you plan to request accommodations for a disability, please register with the Office of Disability Services in Room 118, Powell Hall, phone number 912-260-4435. Also, if you find that any content in this course is inaccessible because of your disability, please contact me as soon as possible.

SGSC Waycross Campus Syllabus Access Statement

If you have a disability and require reasonable classroom accommodations, please see me after class or make an appointment during office hours. □ If you plan to request accommodations for a disability, please register with the Office of Disability Services in Room 130, Dye Building, phone number 912-449-7593 or 912-260-4435. Also, if you find that any content in this course is inaccessible because of your disability, please contact me as soon as possible.

Academic Support

Academic Support offers various resources to assist SGSC students with their academic success. These resources are available to SGSC students at no charge and are found at several ASC locations: The Academic Support Center in room 148A of the Dye Building on the Waycross campus, the Academic Support Center in room 216 of Powell Hall on the Douglas campus, and the STEM Center in room 125 of Stubbs Hall on the Douglas campus. All locations offer course-specific peer tutoring, academic skills workshops, and resources on study skills, time management, note-taking, and learning strategies. Live, online tutoring is also available 24/7 in GeorgiaVIEW through tutor.com. For more information about any of the resources available, contact Amber Wheeler, Academic Support Director, at amber.wheeler@sgsc.edu or visit our webpage at <http://www.sgsc.edu/current-students/academic-support-center.cms>.

Counseling Statement for Douglas and Waycross Campus

Counseling Services are confidential and available upon request. If you would like to schedule a session, referral forms are located online at <http://www.sgsc.edu/current-students/counselingservicesinformation.cms> or outside the counselor's office. Please complete and submit the referral form to the counselor. ***Do not submit by email.*** Once you have submitted your form you will be contacted by phone to set up an appointment. The Counselor's Office is located on the Douglas Campus in Powell Hall, Room 119, phone number 912.260.4438, or Waycross Campus in the Dye Building, Room 130, phone number 912.449.7593.

GeorgiaVIEW

Your syllabus will be posted in this course management system and your instructor will provide additional information. Go to [Self-Service Banner](#) to obtain your school email address. Then:

- Click the Personal Information Menu tab

- Click View email addresses

- Your D2L username will be the part of your email address prior to the @ sign

- Go to <https://sgsc.view.usg.edu/>, click "Forgot Password"

- Read the information, enter your username, and click Submit

- A reset password link will be sent to your student email.

SATISFACTORY ACADEMIC PROGRESS (SAP) STANDARDS FOR FINANCIAL AID

The U.S. Department of Education requires institutions of higher education to establish minimum standards of satisfactory academic progress for all students enrolled in a degree program, regardless of whether federal aid was received. Satisfactory academic progress (SAP) means that a student is progressing in a positive manner toward fulfilling the requirements for a degree. Failure to maintain satisfactory academic progress will result in the loss of all federal and state aid.

Lab Write Ups

Your lab write up should have the following layout:

- 1) YOUR NAME AND THE NAMES OF YOUR PARTNERS.
- 2) INTRODUCTION—a summary of what you did in the lab based on the handout (one page long).
- 3) DATA—use tables like the ones from the lab handout.
- 4) SAMPLE COMPUTATIONS—show all work so if a mistake was made I can help you find it.
- 5) GRAPHS—when called for they will be done on the computer.
- 6) CONCLUSIONS—a few well-chosen statements about conclusions warranted by the data, and how these compare with theory. Comparisons should be numerical, in terms of percent error whenever possible. The biggest sources of error should be discussed with ideas on how to minimize them (half a page).
- 7) ANSWERS TO QUESTIONS—if any are assigned

Laboratory Safety Policy

- 1) Never play in the lab.
- 2) Never eat, drink or smoke in the laboratory.
- 3) Avoid putting objects found in the laboratory into your mouth.
- 4) Do not perform unauthorized experiments.
- 5) Know location of safety equipment and learn how to use it properly.
- 6) Always make sure safety goggles are worn when performing experiments requiring them.
- 7) Avoid setting things on fire and keep your hair under control.
- 8) Keep sinks clean. Do not put solid materials into them. Waste baskets are for solids, sinks for liquids.
- 9) Always flush flammable liquids, acids, and alkalies down the sink with plenty of running water.
- 10) If you are injured, notify your instructor and or lab assistant immediately.
- 11) Make sure all gas, water and electrical appliances are cut off at your lab station when you finish your work.
- 12) Prevent accidents, use common sense.