General Class and Course Information

Course ID: PHY2053  
Course Subject: PHY  
Course Number: 2053  
Course Title: General Physics 1 (AA)  
Reference Number: 254483  
Credits/ Clock Hours: 4.00  
Term/Date: Summer 2019; 2019-05-15 - 2019-08-08  
Days: MW  
Time: 6:00 PM - 8:15 PM  
Room: NS 00122

Course Description: Designed for pre-medical, pre-dental, pre-pharmacy, technical and liberal arts students not majoring in engineering, physical science, or mathematics. This course is a prerequisite for the sequel PHY 2054. Topics include vector algebra, kinematics, dynamics, energy and momentum, fluids, and thermodynamics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

Prerequisite/Corequisite: Prerequisite: MAC1105 (with a grade of C or higher); Corequisites: MAC1114, PHY2048L (with a grade of C or higher)

Instructor's Information

Name: Dr. Jang-Young Bang  
Office Location: NS 0207  
Telephone: (561) 868-3470  
Faculty Webpage: https://www.palmbeachstate.edu/pf/Faculty.aspx?id=bangj  
Email: bangj@palmbeachstate.edu

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Other Information on Textbooks and Materials Needed for Class

No textbook is required for this class. Student may use Openstax physics (a free online textbook) or any algebra-based textbook(s) to enhance their learning. Here are some of the recommended textbooks:

2. Openstax: https://openstaxcollege.org/textbooks/collegephysics  
3. Young, College Physics, 8th through 9th Ed., Addison Wesley

Students are required to purchase a Mastering Physics Access for Physics: Principles with Applications by Giancoli, 7th Edition. Weekly homework assignments will be posted on Mastering Physics website. Students are strongly recommended to attend the first class where important information on the course will be given. If you are absent on the first day, you need to get the information from your fellow classmates.

Course Learning Outcomes

- Add and subtract vectors algebraically by combining their scalar components.  
- Perform calculations that apply the concepts of Newtonian mechanics to objects undergoing oscillatory motion and to fluids at rest and in motion.
- Perform calculations using a variety of energy methods, such as the work-kinetic energy theorem and the principle of conservation of mechanical energy.
- Perform calculations using Newton's three laws of motion and Newton's universal law of gravitation.
- Perform calculations using the concepts of heat and temperature.
- Perform calculations using the equations of motion that describe the constant-acceleration one-dimensional and two-dimensional motions of a particle.
- Perform calculations using the impulse-momentum theorem and the law of conservation of linear momentum.
- Perform the kinematics, dynamics, energy, and momentum calculations associated with the rotation of a rigid body about a fixed axis.
- Perform unit conversions.

**Class Information**

**TBA**

**Assignments, Tests, Quizzes and Final Exam Schedule, with percentage/points of grade**

There are two tracks of the course work:

**Track #1:**

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Exams: 75% (3 Best out of 4, each 25%)

Final: 25%

The second lowest exam may be replaced by the average of the online (PS) and written (WH) homework grades if the latter is better.

This track of the course work is not allowed if 1) you violate academic honesty, 2) disturb class, or violate class conduct rules, 3) violate electronic device policy, 4) you are absent and/or marked absent twice or more.

**Track #2:**

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in-class work: 30%, (zero credit if absent or marked absent twice or more in the semester)

Homework: 30% (Online 15%, Written 15%)

Exams: 30% (3 best out of 4, 10% each)

Final: 10%, cumulative

Pre-Lecture: 10% extra credit

Chapter Summary: 10% extra credit

**Grading**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90.0 - 100%</td>
</tr>
<tr>
<td>B</td>
<td>80.0 - 89.9%</td>
</tr>
<tr>
<td>C</td>
<td>70.0 - 79.9%</td>
</tr>
<tr>
<td>D</td>
<td>60.0 - 69.9%</td>
</tr>
<tr>
<td>F</td>
<td>0 - 59.9%</td>
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</tbody>
</table>
**Attendance Policy**

**Attendance is required.** Please note that if you do not attend and participate in class during first week, you may be withdrawn from the course! Attendance will be taken at the start and/or at the end of each class. If you arrive late or depart early, or not present during some part(s) of class, you will be marked absent. Further, **you will be marked absent if**

- you disturb class by chatting, etc.,
- you engage in an activity not related to the lecture such as using an electronic device other than simple scientific calculator, reading newspaper/magazine, studying other subject, doing homework, etc.,
- you do not participate in class activity (clicker questions, group activity, and/or problem-solving sessions),
- you violate electronic usage rule,
- you come to class late or absent during some part of class, or leave class early.

If you miss a class, it is your responsibility to obtain class notes as well as any course updates (exam dates, assignment deadlines, etc.) from a fellow classmate.

**IMPORTANT:** If you are absent and/or marked absent **twice or more** during the semester, you will receive zero credit for in-class work (30% of your grade), AND you will not be allowed to earn any extra credit for the entire semester! In addition, all previously awarded extra credit points will be taken away!

**Electronic Device Policy**

Students are not permitted to have and/or use any electronic device in class except for a simple, non-graphing scientific calculator. No phones, laptop computers, iPods, tablets, electronic watches, etc.

Please turn them off and put them away before entering the classroom. If any of your electronic device makes any sound or is visible in your possession or in your vicinity, you will be marked absent!

Students are permitted to use a **simple scientific calculator** with the following specifications:

1) does not store data, 2) does not have a graphing function, 3) does not have a communication feature of any type.

**NO pictures OR video or voice recordings in class!!**

**IMPORTANT:** If you violate Electronic Device Policy, you will lose 1) the entire in-class work credit (30% of your grade), 2) all previously awarded extra credit, 3) no future extra credit regardless of the completion of any extra credit assignment(s), 4) No track #1 course work allowed, 5) your second lowest exam grade may not be replaced by the average of your PS and WH grades if the latter is higher.

**Late Assignment Policy**

No late assignment will be accepted. No credit will be given for late assignments.

**Make-up Exam Policy**

No makeup course work will be permitted. A student may take a makeup exam only if permitted by the professor. It is completely up to the professor whether or not a makeup exam is allowed for a student. The decision will be made based on an individual basis.

**There will be 20% reduction from the total scores from the makeup exam.** (e.g. if you score 90 out of 100 on a makeup exam, your score = 90.0 * 0.800 = 72.0.)

The lowest exam grade will be dropped. If you miss an exam and do not take a makeup exam, the grade for that exam will be dropped.

**The final exam cannot be dropped or made up. If you do not take the final, you will receive an F for the course.**
Academic Dishonesty Policy
You are not allowed to cheat (i.e. receive or give an unauthorized help) during an
exam or on any course work.

Please note that plagiarism is an act of cheating!

Academic Dishonesty Penalty for Violation
If you cheat first time on an exam or any other course work,

- you will receive a zero for that exam or the course work
- your final course grade will be reduced by a whole letter grade.
- neither extra credit for the entire semester nor make-up exam opportunity will be given to you.
- track #1 course work (grading method) will not be permitted.

If you cheat second time on an exam or any other course work,

- you will receive an F for the course
- you will not be allowed to attend class
- you will be dropped from the course
- You may be reported to the college dean.
- Further disciplinary actions (such as removal from the college or others) may result.

Other Policy
HOMEWORK

Homework consists of the following: Online homework and written homework. Online homework (PS) will be available on Mastering Physics and will consists of problems on the material from the reading assignment and the lecture. More detail will be given on the first day of class. As for the written homework (WH), you must submit to the professor your own hand-written solutions (following 6-step strategy) to the only those online problems indicated as written homework. One of your solutions will be randomly selected and graded. Written homework is due at the start of the class immediately following the online-homework deadline. It must be turned in to the professor in person and in class.

Please note that if you arrive late, your written homework is late. Further, please note that it is a violation of academic honesty to have more than one Mastering Physics account. Any student with multiple accounts will be suspended from his/her Mastering Physics and may receive zero credit for homework and/or an F for the course. Besides, the information (such as name, email address, Login name, ID Number) students provide to create their Mastering Physics accounts must match their PBSC academic records. Otherwise, students will receive a zero credit for their homework. Further, students are required to submit their own work. Please note that students are encouraged to work together and/or with a tutor on homework; however, students must write their own solutions. That is, no plagiarism is allowed. If a student submits some one else’s work, it is a violation of academic honesty. More details on homework will be given on the first day of class.

Mastering Physics Course ID: To be announced in class.

Pre-Lecture & Chapter Summary

Prior to each lecture, students are encouraged to complete a pre-lecture assignment and a chapter summary pertaining to the lecture content. Pre-Lecture (PL) assignments will be available on Mastering Physics webpage and will be due 30 minutes prior to the class. Before coming to class, students should read the textbook and make a chapter summary (CS) consisting of definitions of new terms, concepts, principles, laws, etc., and six-step solution for example problems in the chapter. Chapter summaries must be hand-written and turned in to the
IN-CLASS WORK

In each class, students will work in a group of 3 or 4 and write out their work individually and submit their work to the professor. One of the group members’ work will be randomly selected and graded and that grade will be the grade for the entire group. All group members must ensure every one participates in their group work.

Students will receive zero credit if

- absent or marked absent,
- does not cooperate with his/her group members
- does not actively participate in group work
- violates code of conduct or electronic device usage rule
- disturb class

In addition, unannounced (individual or group) quizzes may be given at the beginning of the class and/or at any point during class.

If you are absent or marked absent twice or more in the semester, you will receive zero credit for in-class work (30% of the course grade) for the entire semester.

If you are absent and/or marked absent 3 times or more, you will receive an F for the course.

If you disturb class or violate class conduct (electronic device policy, classroom conduct, etc.), you may receive zero credit for in-class work.

HONOR PLEDGE & ACKNOWLEDGE FORMS

All students must sign and date and turn in an honor pledge and acknowledge form by the second meeting of the class. No credit will be given to all course work performed and/or completed by the students who fail to submit their signed forms, and their grades will be permanent. Further, students may not be allowed to take an exam or a quiz if they fail to submit their signed forms prior to their exam date.

GRADING

There are two different grading methods for track #1 and Track #2 of the course work.

Track #1: ---------------------------------------

Grade #1 = EXAM*75 + FINAL*25

- EXAM = Sum of 3 Best exam scores / 300 (See notes below)
- FINAL = Your final exam score / 100

3 best out of 4 exam scores will be counted towards your EXAM grade. However, if you violate student code of conduct and/or academic honesty during an exam and thus receive a zero, that exam grade cannot be waved. In such case, two best score and a zero will be counted toward your exam grade.

Track #1 will not apply if

- you violate any policy outlined in the course syllabus
• you are absent or marked absent two times or more

Track #2: ---------------------------------------

Grade #2 = \( W \times 30 + PS \times 15 + WH \times 15 + EXAM \times 30 + FINAL \times 10 + CS \times 10 + PL \times 10 \)

- \( W \) = your on-class work score/ total in-class work score
- \( PS \) = your online homework score / total online homework score
- \( WH \) = your written homework score / total written homework score
- \( EXAM \) = Sum of 3 best exam scores / 300 (see notes below)
- \( FINAL \) = your final exam score / 100
- \( PL \) = your pre-lecture score / total pre-lecture score (extra credit)
- \( CS \) = your chapter summary score / total chapter summary score (extra credit)

3 best out of 4 exam scores will be counted towards your EXAM grade. However, if you violate student code of conduct and/or academic honesty during an exam and thus receive a zero, that exam grade cannot be waved. In such case, two best score and a zero will be counted toward your exam grade.

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IMPORTANT NOTES (for both Track #1 & Track #2):

Neither in-class work credit nor extra credit for the entire semester will be given if absent or marked absent two times or more in the semester!!

If you disturb class or violate any policy or rule (e.g. electronic device policy, classroom conduct, academic honesty, etc.) outlined in the course syllabus,

- you may receive zero credit for in-class work and zero extra credit for the entire semester
- the second lowest exam may not be replaced by the average of PS & WH grades (if the latter is higher).

If you are absent or marked absent three times or more, you will receive an F for the course!!

GRADE APPEAL POLICY

Your grades (for homework, attendance, exam, etc.) will be posted online (Blackboard/Mastering Physics). If you have any issue with your grade, you must notify your instructor in writing (PBSC email required) clearly stating your name, student ID number, Course Title, Course Reference Number, Date, and the reason for your appeal. You must do so within one week from the date your grades are posted online. After one week, all grades become permanent academic records.

E-MAIL POLICY

The course instructor will only respond to Palm Beach State College emails.

CLASSROOM CONDUCT

All students are required to practice full professionalism as they are expected in their present/future careers. In addition to the course rules and policy outlined above, any student exhibiting conducts unruly and/or disruptive to the class may be removed from the class and may receive an F for the course.

Withdrawal Policy
It is student's responsibility to take a proper step through the Registrar's Office to withdraw from the course before the official drop deadline for the grade of "W" on the transcript. Failure to do so will result in a grade of F for the course. Please note that the instructor will not permit students to audit the course. No "XC" grade will be assigned.

Blackboard Gradebook/SafeAssign (GB) Class Information

This course meets traditionally in the classroom, but is also supported by a limited Blackboard course site. This course site provides an electronic Gradebook and may also provide SafeAssign assignments and some handouts/links to online resources which require you to have Internet access. Before you decide to take this course which utilizes a Blackboard Gradebook/SafeAssign course support site, it is recommended that you carefully review the:

Blackboard Access

- Access to your Component Course is AVAILABLE each term on the FIRST DAY OF CLASSES

Blackboard Orientation and Assistance

- How to Register for the Free Online Orientation Course: ELO1000
- How to obtain Blackboard assistance from the Online Student Support Center

Blackboard Tips & Tutorials

- How to Ensure your Computer is Compatible
- Ensure you Understand Examination and Assignment Rules
- Learn the Functions of Blackboard

Then proceed to - Palm Beach State Blackboard (https://palmbeachstate.blackboard.com) to Login to your Gradebook/SafeAssign (GB) Course Site (not available before the first day of class) using the same USERNAME and PASSWORD you used to register for classes.

For Additional Information and Obtaining Assistance visit the eLearning Student Support Center
http://www.palmbeachstate.edu/elearning/student.aspx

Blackboard Gradebook/SafeAssign (GB) Course Requirements

Computer Systems

Your computer system resources must be compatible with the Learning Management System (LMS) used to deliver/manage course content. System Check (analysis) is provided on the course login page at https://palmbeachstate.blackboard.com. Your computer needs to be configured per recommended settings. Failure to do so generally results in test submission and other participative action errors. These types of errors are generally not accepted as an excuse for missed submissions.

SLC Computer Lab

If students do not have access to a computer at home, the SLC Computer Lab at a Palm Beach State campus can be used to complete course assignments. Visit the SLC Computer Lab webpage at http://www.palmbeachstate.edu/slc for location and hours.

Student Computer & Learning Management System Skills

Students need to possess basic web browsing skills and need to learn the functions of the Learning Management System (LMS). Students can learn how to use the LMS by enrolling in a free ELO1000 Online Orientation Course. Online video tutorials are provided for all major LMS functions and can be accessed from the online classroom by clicking on the ‘Support’ tab on the right-hand side of the course window.

Course Login
Information on how to change your password and solving other login related issues is provided on the LMS Login Page:

https://palmbeachstate.blackboard.com – simply follow the link

Please keep in mind:
Username: Your PBSC Student ID
Password: Your PBSC Password (must be 6 characters)

Online Textbook Purchase
The textbook(s) can be purchased at the PBSC Campus Bookstore or online at http://www.bkstr.com/palmbeachstcentralstore/home.

For GB Course Assistance, please contact your:
- Professor/Instructor with Course Instructional Content (handouts provided, assignment availability dates, course instructions, etc.) issues.
- Student Helpdesk with Username/Password & General Access issue: Phone: 561 868-4000.
- Online Student Success Specialist for all LMS (Blackboard) issues and assistance: Phone: 561.868.3303
  Email: elearningsuccess@palmbeachstate.edu
  Web Form: http://palmbeachstate.co1.qualtrics.com/SE/?SID=SV_etgXQrKPN7GX0YI&Q_JFE=0

Student Code of Conduct
All students are required to practice full professionalism as they are expected in their present/future careers. In addition to the course rules and policy outlined above, any student exhibiting conducts unruly and/or disruptive to the class may be removed from the class and may receive an F for the course.

College Policies
Academic Dishonesty/Integrity
Academic misconduct including, but not limited to, unauthorized use of aids, cheating, fabrication, plagiarism, or facilitating academic dishonesty in the classroom or other college environments, as defined below:

Plagiarism
- Taking the words or specific substance of another and either copying or paraphrasing the work without giving credit to the source.
- Submitting a term paper, examination or other work written by someone else.
- Failure to give credit in a footnote for ideas, statements of facts or conclusions derived by another.
- Failure to use quotation marks when quoting directly from another person, whether it is a paragraph, a sentence or even a part thereof.
- Similar and extended paraphrasing of another.

Cheating
Using unauthorized notes, study aids, or information from another student or student’s paper on an in-class examination; altering a graded work after it has been returned, then submitting the work for regrading; and allowing another person to do one’s work and to submit the work under one’s own name or otherwise not following the rules or instruction to gain an advantage.

Fabrication
Presenting data in a piece of work that were not gathered in accordance with guidelines defining the appropriate methods for collecting or generating data and failing to include a substantially accurate account of the method by which the data were generated or collected.
Aiding and Abetting Dishonesty
Providing material or information to another person with knowledge that these materials or information will be used improperly pursuant to Florida Statutes 877.17 (1).

Forgery
Altering documents affecting academic records; forging a signature of authorization or falsifying information on an official academic document, election form, grade report, letter of permission, petition, or any document designed to meet or exempt a student from an established College academic regulation.

Warning: Students may not withdraw from a class to avoid a failing grade as a result of such a violation.

Please refer to the Palm Beach State College Student Handbook (www.palmbeachstate.edu/current for link to the student handbook).

Classroom Etiquette and Student Behavior Guidelines
Students will demonstrate respect for professors and fellow students. Behavior that is deemed disruptive to a positive learning environment will be addressed by the professor and may result in a warning. If the student's behavior is deemed extreme in nature, the student will be referred to the dean of students for disciplinary action in accordance with the Student Handbook. Consequences for such behavior may result in formal conduct charges and sanctions.

Computer Competency Component
Each student will, to the satisfaction of the professor, demonstrate a fundamental understanding of basic computer operations through various professor-determined exercises and/or assignments.

Disability Support Services
Students with disabilities are advised, in compliance with federal and state laws, that accommodations and services are available through the office of Disability Support Services (DSS). It is the student's responsibility to contact the Disability Support Services office and to submit appropriate documentation prior to receiving accommodations and/or services. Please see the website at www.palmbeachstate.edu/disability for additional information.

Eating, Drinking and Smoking
Eating and drinking are confined to areas designated on the campus. Smoking, including electronic cigarettes (also known as e-cigarettes, vapors, vaporizers, or nicotine vaporizers), is not permitted in any College building and only in areas designated at each campus.

Final Course Grade Appeal
The evaluation of academic work is the responsibility of the faculty member/instructor. The method for assigning the final course grade is established by the faculty member/instructor. Per Board Rule 6Hx-18-3.191, faculty/instructors shall communicate the grading policy of the course to their students in writing. If this policy changes during the term, students should be notified of any changes in writing. The method to determine final course grades must be communicated to students in a course syllabus prior to the beginning of the course. Should a student have a question about a final course grade, please follow the procedures as outlined in the student handbook: www.palmbeachstate.edu/current.

Mid-Term Grade Reporting
Within one week after the close of the mid-term grading period, mid-term grades will be made available to all students for each class by either written notification or individual conference.

Student Responsibility Policy
When a student attends the College, s/he becomes subject to its jurisdiction. Students are expected to conduct themselves in a responsible manner, in all areas of campus life. By enrolling, they pledge to obey the rules and regulations of the College and are responsible for observing all College policies and procedures as published in the student handbook, the College catalog, and other College publications which may be related to specific program of study. The student will be responsible for preparing for class, participating in class, and completing assignments on time.

Palm Beach State Websites of Interest
Please see this web page (www.palmbeachstate.edu/current) for a list of web addresses for
Withdrawal Policy for Individual Courses
The last day to withdraw from a College course with a "W" grade in this course is 2019-07-10. It is the responsibility of the student to use the PantherWeb system or visit a campus Registrar’s office to withdraw. An official withdrawal entitles the student to a grade of "W" in the class. Students may not withdraw from a class to avoid a failing grade as a result of a violation of the Academic Dishonesty/Integrity Policy.

Other Information from your Professor
The content of this syllabus may be updated during the semester.

Department Contact Information
Name: Carlos Ramos
Office Location: NS 103
Telephone: 561-868-3886
Email: ramosc@palmbeachstate.edu
Job Title: Associate Dean