**VALENCIA COLLEGE**

**INTRODUCTORY PHYSICS I-PHY 2054C**

**SYLLABUS: Fall 2024**

**Instructor Information:**

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| Instructor | Dr. W.Khattou |
| E-Mail  | wkhattou@valenciacollege.edu |
| Office and Phone | 2-233, 407-582-1950. |
| Online office hours | Monday: 11:30 am -3:30 pm at the Physics lab, building 2, room 209.Tuesday: 2:00pm-4:00pm-OnlineWednesday: 1:00 pm-3:00 pm-OnlineThursday: 2:00 pm – 3:00 pm-Online Friday: 12:00 pm – 1:00 pm-Online |

**Course information:**

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| Course title | Introductory Physics II-PHY 2054C |
| Course number | CRN 12020 |
| Textbook | “Physics” by Cutnell & Johnson, 12th edition loose leaf w/ WileyPLUS, ISBN:9781119773627 WileyPLUS stand-alone code, ISBN: 9781119788669 |
| Meeting days/time | Lecture: Tuesday from 8:30 am - 9:45 am. |
| Prerequisite | PHY 2053C. |
| Classroom location  | WC- 001-153 |
| Final Exam | Tuesday, December 3 from 8:30 am - 9:45 am. |
| Drop/refund deadlineWithdrawal Deadline | August 26, 2024 at 11:59 pmOctober 25, 2024, at 11:59 pm |
| College closed | Monday Sep 2, and Thanksgiving holiday: November 27 to December 1st. |

**Course description:**

PHY 2054C is a continuation of PHY 2053. Major topics include the

Study of Electricity, Magnetism, Light and Elements of Modern Physics. Special emphasis is placed on understanding major principles governing general phenomena in Nature, and mathematics is used as a tool to clarify concepts. Students should have a good working Knowledge of algebra and trigonometry.

**Attendance:** Regular attendance in the lecture is imperative. No more than 4 absences are allowed.

**Labs:**

* The Physics lab is in building 2 room 209.
* The lab is open Monday through Thursday from 10 am to 8 pm.
* To make a reservation, print a handout for a specific experiment or access the lab schedule, go to “Physics Laboratory PHY 2054” sandbox on your Canvas dashboard.

To enroll to Physics Laboratory PHY 2054 course, click on the link below, then accept.

<https://online.valenciacollege.edu/enroll/W4Y3TL>

**A lab orientation will be held the first week of classes to explain everything about the Physics open lab.**

**Lab schedule:** In this page you will find the opening and closing dates of each experiment. Lab reports need to be handed to the professor the Wednesday following the due date of each experiment.

For the first week of classes, you need to complete the first pre-lab assignment.

**The first pre-lab assignment ‘E2c’**can be found within Modules in the Canvas site of the course.

Deadline to complete the first pre-lab quiz “**E2c**” is **Sunday, August 27, 11:59 p.m.**

**Students who will fail to complete the assignment above before the stated deadline will be dropped from the class.**

I highly recommend that you use the Valencia Science tutoring. The Physics tutors will answer your questions about lectures and Physics Labs.

**Lab report components:**

The first component of your lab report is the pre-lab. The due dates for the pre-labs will always be before the opening dates of the experiments. To access the pre- labs, go to Canvas navigation menu, click on assignments then pre-labs. Please read the lab instructions for the experiment and watch the video on your Laboratory PHY 2054C Canvas course before completing the pre-lab.

Your lab report needs to include the following items:

* An introduction where you explain, in your own words, the purpose of the experiment.
* The stamped sheet.
* All the data sheet(s) and the excel graph(s) if required.
* A conclusion where you compare the experiment with theory, analyze your graph(s) and explain how the experiment has helped you understand a certain concept(s) in Physics.

You need also to answer all the questions in the handout, if any. A blank space will be provided for that.

* Absence from a lab will result in a 0 for that lab. Missing three or more labs will result in a failing grade.

**Homework:** There will be graded homework assignments for every chapter we cover. The graded assignments will be done through WileyPLus. You are encouraged to discuss the problems among yourselves; however, each of you is responsible for submitting your own individual answers. The system has a cutoff date after which no answers are accepted.

Please open the link on your Canvas Modules “How to get started with WileyPlus” and watch the video. You need to purchase a WileyPlus registration code to be able to access the online homework. The online homework contributes to 18% of your final grade, so it is important that you complete all your assignments. You have 14 days grace period during which you have free access to WileyPlus. The “How to get started with WileyPlus “shows you where to find the link for the 14 days grace period and where to buy your WileyPlus registration code.

**Grades:**
• Three tests (Each test 15%) 45%
• Final test 10 %
• Lab report 18%
• Pre-Lab 9%
• Online Homework 18%

**Grading Scale:**

|  |  |
| --- | --- |
| A | 90 – 100 |
| B | 80 – 89 |
| C | 70 – 79 |
| D | 60 – 69 |
| F | 00 – 59 |

**Test and Exam Policies:**

• All tests are closed book, closed notes.

• You may bring with you to each test one sheet of handwritten formulas.

• The use of calculators is strongly encouraged.

• Tests will be graded with partial credit based on the use of proper methods and procedures.

Tentative Schedule for lectures and tests

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| --- | --- |
| Aug 20-Aug 27 | Lab orientation and syllabus review1St Pre-Lab Quiz Chapter 18: Electric Forces and Electric Fields |
| Sep 3 | Chapter 18: Flux and Gauss Theorem |
| Sep 10-24 | Chapter19: Electric Potential Energy and Electric Potential |
| Oct 1 | Test 1  |
| Oct 8-15 | Chapter20: Electric Circuits |
| Oct 22 | Chapter21: Magnetic Forces and Magnetic Fields lecture  |
| Oct 29 | TEST 2 |
| Nov 5 | Chapter 22: Electromagnetic Induction |
| Nov 12 | Chapter 23: Alternating Current |
| Nov 19 | Chapter 25: The Reflection of Light: Mirrors |
| Nov 26 | Test 3 |
| Dec 3 | Final |

**Make-Up Exam Policy:**

Only in the event of extraordinary circumstances will the students be allowed to take a make-up exam. The only way the students will be allowed to take the make-up exam is if they have a legitimate excuse, accompanied by some documentation from either a medical doctor or an attorney, etc. Notes from family members are not acceptable.

**Top Six Resources for Students:**

Learning Support Services provides students with academic support through distance tutoring, face to face tutoring at the campuses, writing consultations, library services, and resources. Tutoring is offered in most academic disciplines including math, science, foreign languages, English for academic purposes (EAP), computer programming and writing assistance for any course.  Assistance with library research can be accessed online through Atlas or the tutoring LibGuide.  For more information on how to access tutoring and library research assistance, please visit the college-wide Learning Support Services LibGuide at: [www.valenciacollege.edu/tutoring](https://nam10.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.valenciacollege.edu%2Ftutoring&data=04%7C01%7Cwkhattou%40valenciacollege.edu%7Cab2887d003f14b27288008d9632dc7d1%7C0e8866953d1741a88544135b0a92a47c%7C1%7C0%7C637649870575744767%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=v%2FWwBMrfVw1jvVGAvKL6sU2CaCnvaK%2FN%2FdtzZaLcCIs%3D&reserved=0)

**Please note**: Brainfuse is our new 24/7 online tutoring and learning hub, which is available to all of Valencia’s students.  This service is best used as a back-up to Valencia’s Distance Tutoring service, not as a replacement. Brainfuse is accessible through Canvas or by visiting [www.valenciacollege.edu/tutoring](https://nam10.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.valenciacollege.edu%2Ftutoring&data=04%7C01%7Cwkhattou%40valenciacollege.edu%7Cab2887d003f14b27288008d9632dc7d1%7C0e8866953d1741a88544135b0a92a47c%7C1%7C0%7C637649870575744767%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=v%2FWwBMrfVw1jvVGAvKL6sU2CaCnvaK%2FN%2FdtzZaLcCIs%3D&reserved=0)

Here are some of the top resources to get you started and connected to some great tips, tricks, and tools!

* **Virtual Answer Center:** You can now connect with an Answer Center advisor virtually through Zoom! In our virtual Answer Center, student services advisors are available to assist you with questions about admissions, financial aid, assessment, transcripts, residency and more. Visit https://valenciacollege.edu/students/answer-center/ to learn more and get started.
* **Academic Advising:** Have questions about your courses? Advisors are available virtually by email (advising@valenciacollege.edu) or through live chat at **https://valenciacollege.edu/about/support/atlas-advising-chat-setup.php.**
* **Valencia’s Virtual Tutoring Service:** In response to COVID-19, Valencia’s tutoring services have moved online and are now being offered for accounting & economics, computer programming, math, EAP and foreign languages, science, and writing. To get started, please visit **https://libguides.valenciacollege.edu/c.php?g=1014597&p=7348794** and self-enroll in the tutoring courses in Canvas. This is where you will access the links to live tutoring (via Zoom), as well as the schedule of tutors, times, and services.
* **Valencia Counselors:** Our Valencia Counselors are here for guidance and support. Please visit **https://valenciacc.ut1.qualtrics.com/jfe/form/SV\_40fCWDqhRBjrNrv** to set up a non-emergency appointment. Please note that it may take up to 24 hours for a counselor to contact you. If you are experiencing a mental health emergency, please contact BayCare **(800) 878-5470 or 9-1-1.**
* **Quick Start Library Guide:** Use this handy guide to learn about and gain access to all the library resources from home or on-the-go. Visit **http://libguides.valenciacollege.edu/quickstartlibraryguide to get started!** · Keep Learning: Visit **https://valenciacollege.edu/students/online/keep-learning/** if you are still unable to find what you are looking for, please visit our Keep Learning webpage to get information on a wide range of resources and online learning tips.
* **Community Resources:** We know this is a time of change, so if you find yourself in need of additional resources, please visit **https://valenciacollege.edu/alerts/coronavirus-community-resources.php** to view a list of local and national resources that may be helpful to you or your family as we navigate this together. Student FAQs: Visit **https://docs.google.com/document/d/165dZBgTfUljIXMZd2DoP9RWsbhLIfYd\_CTC4LEtgPjU/edit** for answers to frequently asked questions and updates related to COVID-19.

**Study tips:**

“LEARNING IS AN ACTION VERB!! Most students need to do more than just sit through lectures and reread their notes. Spend 1-2-hour blocks of time EVERY DAY actively writing or discussing concepts to make them a part of your memory.

**Here are some study and classroom management tips that have assisted former students:**

* Each chapter comes as a module with many resources. Review thoroughly all of them.
* Create flash cards with questions you make up from the lecture and lab with answers on the back.
* Use mnemonic devises and other games to remember concepts; go to Google images, YouTube and Khan Academy for additional pictures and videos to clarify concepts.
* Make lists of confusing topics from your studying and ask questions.
* Take advantage of the professor’s office hours and online Physics tutoring.
* JOIN A STUDY GROUP and predict what questions the professor could ask on the test.

**Withdrawal Deadline and Policy**

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), “A student who withdraws from class before the withdrawal deadline of (March 20, 2020 at 11:59 pm) will receive a grade of “W.” A faculty member is permitted to withdraw a student from the faculty member's class up to the beginning of the final exam period, for violation of the faculty member's attendance policy, as published in the faculty member's syllabus. A student is not permitted to withdraw from this class after the withdrawal deadline; if you remain in the class after the withdrawal deadline, you can only receive a grade of A, B, C, D, F, or I. And I grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an I, the work missed must be made up during the following semester, at which time you will get an A, B, C, D or F. Failure to make up the work during the following semester will result in you getting a grade of F in the course. Any student who withdraws from this class during a third or subsequent attempt in this course will be assigned a grade of “F.”

“The professor will not withdraw any student for any reason; it is the responsibility of the student to withdraw themselves before the withdrawal deadline and to be aware of the date of the withdrawal deadline.”

Students on financial aid should consult a financial aid advisor or counselor before withdrawing from a course; there may be financial implications to the student, which he or she must know about, to make an informed decision before withdrawing from a course. Students with some scholarships who withdraw or are withdrawn from a class must pay the college for the cost of the class. Other scholarship sponsors may also require repayment.

Notice to Students Seeking to Withdraw from a Course(s)

Before you withdraw from a course, you should be aware that course withdrawals:

* Will increase the cost of your education.
* May affect your financial aid status.
* May affect your transfer grade point average.
* May result in your having to pay the full cost of instruction fee to retake the course.
* May affect your anticipated graduation date.
* May result in your being denied access to limited access programs.
* May affect your eligibility for the Honors Program.
* May affect your immigration status if you are attending Valencia on a nonimmigrant visa.
* Will result in your required repayment of course fees paid by a Bright Futures scholarship.

To withdraw from a course(s) you must access registration on Atlas. The Withdrawal Deadlines for each term are published in the Academic Calendar in the online official catalog. All requests for withdrawals must be submitted by 11:59 p.m. on the Withdrawal Deadline date (March 26, 2021).

**Before you withdraw**

* Talk with your professor to discuss your progress in the course.
* See a Student Services staff member to discuss how a withdrawal will affect your career and education plans and/or the status of your financial aid.

**College Catalog/Student Handbook/Policy Manual**

* A full description of all College policies can be found in the College Catalog at <http://valenciacollege.edu/catalog/>
* The Student Handbook can be found at: <http://valenciacollege.edu/studentdev/CampusInformationServices/>
* The Policy Manual can be found at <http://www.valenciacollege.edu/generalcounsel/>
* The college calendar can be found at <http://valenciacollege.edu/calendar/> for important dates.

**BayCare Behavioral Health’s Student Assistance Program**

Valencia is committed to making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home, or work. Students have 24-hour unlimited access to the **BayCare Behavioral Health’s confidential student assistance program** phone counseling services by calling ***(800) 878-5470****. Three free confidential face-to-face counseling sessions are also available to students.”*

**Students with Disabilities Information:**

Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class; accommodations will not be applied retroactively. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities.

West Campus SSB, Rm. 102 Phone: 407-582-1523 Fax: 407-582-1326

**Disclaimer**

“The course outline and syllabus are subject to change as needed; changes will be announced through email in a timely manner, when necessary. Your continued participation in this course after the drop-add deadline period constitutes an agreement with and an acceptance of the conditions presented in this syllabus.