

**Syllabus for CCSU Physics 126 Section 3: University (Calc) Physics II**  
**Fall 2024, TR 4:30 – 5:45, T 3:05 – 3:55 | Instructor: Nicholas Lombardo**  
**Email: NL@CCSU.EDU** (please reach out to me with any accessibility suggestions)



**Textbooks:**

**FREE** LibreText Calculus-Based Physics, Volume B (Schnick)  
[https://phys.libretexts.org/Bookshelves/University\\_Physics/Calculus-Based\\_Physics\\_\(Schnick\)/](https://phys.libretexts.org/Bookshelves/University_Physics/Calculus-Based_Physics_(Schnick)/)  
Also: Serway & Jewett Physics for Scientists and Engineers, 9<sup>th</sup> ed  
Access from Elihu Burry Library

**Grading Policy**

In this course, we will be adopting a dynamical approach to calculating final grades because students of different backgrounds may learn physics in different ways. The base grade is 40% the midterm exam plus 40% the final exam plus 20% the laboratory grade. Added to this will be bonus points from homework and quizzes. Your quiz average will add up to 10 points to your final grade. Completion of all homework assignments will add 10 points.. In this way, students who may not perform well in test settings can still achieve a grade reflective of their effort and applied understanding of the material. Likewise, students who do not work well outside of the classroom setting, but who exhibit their mastery of the material on exams, may also achieve a high grade.

**Midterm and Final**

The midterm and final will each consist of two parts: a take-home portion worth 25% and an in-class portion worth 75% of each exam's grade. The take-home portions will include applied questions of the theory studied in class, and are designed to be quite challenging. As such, **please feel free to consult anybody or anything** to complete the take-home portions. The in-class portions will be more straight-forward, but you are not permitted to consult an outside reference. (*Hint: The content on the take-home portion may serve as an excellent guide for what will be on the in-class portion.....*)

The final grade will be calculated as:

Lab Grade	20%
Midterm	40%
Final	40%
Homework	+10 pts
Quizzes	+0.1*avg

Short (~5–10 in-depth questions) homework will be assigned every class.

**Completion** of all homework will add **10 points** to your final grade, regardless of the homework grade.

Letter grades will be determined as

A	: 90 – 100
B+	: 87 – 89
B	: 83 – 86
B-	: 80 – 82
C+	: 77 – 79
C	: 73 – 76
C-	: 70 – 72
D+	: 67 – 69
D	: 63 – 67
D-	: 60 – 62
F	: <60

EXAMPLES	Student A	Student B	Student C	Student D	Student E
Lab Grade (%)	85	80	90	80	90
Midterm (%)	80	65	50	95	50
Final (%)	75	70	50	90	50
<b>BASE GRADE</b>	<b>79</b>	<b>70</b>	<b>58</b>	<b>90</b>	<b>58</b>
Homework (/10)	10	10	10	0	0
Quizzes (%)	0	60	80	90	30
<b>ADDED POINTS</b>	<b>10</b>	<b>16</b>	<b>18</b>	<b>9</b>	<b>3</b>
<b>Final Grade</b>	<b>89</b>	<b>86</b>	<b>76</b>	<b>99</b>	<b>61</b>
<b>Letter Grade</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>D</b>

### Anticipated Schedule

Dates	Tuesday Topic	Thursday Topic
8/27, 8/29	1 Force from point charge	2 Force from cont charge
9/3, 9/5	3 Field from point charge	<b>NO CLASS</b>
9/10, 9/12	4 Field from cont charge	5 Gauss's Law
9/17, 9/19	6 Potential from point	7 I, EMF, Ohm's Law
9/24, 9/26	8 Resistor, series & parallel	9 Kirchoff's Laws
10/1, 10/3	10 Capacitors	10 RC (midterm assigned)
10/8, 10/10	<b>NO CLASS</b>	<b>NO CLASS</b>
10/15, 10/17	12 B Field (mid. collected)	13 Biot-Savart Law
10/22, 10/24	14 Faraday	15 Inductors
10/29, 10/31	16 RLC Circuits I	17 RLC Circuits II
11/5, 11/7	18 Electromagnetic Rad.	19 Single Slit Diffraction
11/12, 11/14	20 Mirrors	21 Refraction
11/19, 11/21	22 Refraction	23 Thin Lens Ray Tracing
11/26, 11/28	24 Thin Lens Equations	<b>NO CLASS</b>
12/2, 12/5	25 Catch up + Questions!	26 Catch up + Questions!

## **University Policies**

**THE OFFICE FOR EQUITY AND INCLUSION STATEMENT ON DISCRIMINATION AND HARASSMENT**  
Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment, and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns should contact the Office for Equity and Inclusion, Student Affairs, or their faculty member.

### **SEXUAL MISCONDUCT, INTIMATE PARTNER VIOLENCE, AND STALKING**

Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment, or stalking, as defined in CCSU policies. For additional information, please consult the BOR/CSCU Sexual Misconduct Reporting, Support Services and Processes Policy:  
<http://www.ccsu.edu/diversity/policies/BORSexualMisconductFeb2015.pdf>

All faculty members and staff have a duty to report incidents of sexual harassment including sexual misconduct, intimate partner violence, and stalking to Dr. Stacey Miller, Vice President for Equity and Inclusion, Davidson Hall 119.

To file a report contact:

Office for Equity and Inclusion (860-832-1652)  
Student Conduct (860-832-1667) or  
Student Affairs (860-832-1601)

For criminal complaints, contact:

University Police (860-832-2375)

For support and advocacy contact:

Office of Victim Advocacy and Violence Prevention (860-832-1652)  
Student Wellness Services (860-832-1945; confidential)  
Ruth Boyea Women's Center (860-832-1655)  
YWCA Sexual Assault Crisis Services Hotline at (860-223-1787; confidential—off campus)  
Prudence Crandall Center at (888-774-2900; 24-hour hotline/confidential—off campus)

### **STUDENT WELLNESS CENTER COUNSELING AND STUDENT DEVELOPMENT**

The Student Wellness Center's Counseling and Student Development Department supports students' academic success by assisting them in resolving mental health concerns and other personal difficulties. The Center offers individual counseling, group counseling, and psychiatric referral services to enrolled full- and part-time students. They also provide referrals for specialty, long term, or more intensive services. Services are provided at no additional charge and are confidential.

### **HEALTH SERVICES**

The Student Wellness Center's Health Services Department supports students' academic success by providing routine medical care to enrolled full and part-time students. There is NO charge for office visits, although some lab tests, immunizations, treatments, and prescription medications may require a small fee. They also provide referral services for more complex or serious medical issues. All visits are strictly confidential. The Student Wellness Center is located on the first floor of the Willard-DiLoreto Complex, W101. Please drop by or call 860-832-1926 to make an appointment.

General Inquiries (860-832-1927)

Visit the Student Wellness Center's Website at <https://web.ccsu.edu/healthservices/index.asp>

## WRITING CENTER

The Writing Center offers free one-on-one sessions with a talented and experienced staff of undergraduate, graduate, and faculty tutors. The Center works with students from any discipline and at any stage in their writing process, including interpreting assignment prompts, brainstorming material, and integrating research. The Writing Center is open Monday through Friday during the fall and spring semesters while classes are in session. For current hours, check the Writing Center's website: <http://www.ccsu.edu/writingcenter>

## THE LEARNING CENTER

It can be confusing and stressful when you are struggling in school and do not know where to turn. Often, students run into issues with their academics because they are unsure of what to do or who to ask for help. Ask us...We are here for you!

The Learning Center, 860.832.1900, Willard-DiLoreto D316.

## ACADEMIC COACHING

Not getting the grades you want? Or need to get more done in less time? Academic Coaching is a personalized program to help you maximize the effectiveness of time spent studying.

Academic Coaching is located in The Learning Center, Willard-DiLoreto D316. Call to schedule an appointment today 860.832.1900.

## TUTORING

The Learning Center offers drop-in tutoring for math, statistics, general and organic chemistry and intro physics. Please bring your books, notes and assignments. Our peer tutors will work with you to help you master the material. Day and evening hours are available – please refer to our website: <http://web.ccsu.edu/tlc>)

## EARLY ALERT

The Early Alert program is a way for faculty to let students know that they may be in jeopardy of doing poorly in a course before the end of the semester. The Early Alert program is designed to connect you with the help you need while there is still time in the semester to improve your performance in the class. Early Alert referrals do not go on your record. If you are referred to Early Alert, please contact the Early Alert Coordinator to get the assistance you may need! The Learning Center, 860.832.1900, Willard-DiLoreto D316.

## ELIHU BURRITT LIBRARY RESOURCES

Get help with all of your research needs. Librarians offer one-on-one assistance at the Reference Desk or by appointment. We also offer instruction in all aspects of the research process, including where and how to find books in the library or online, how to access articles and scholarly resources from databases, and how to format citations. Librarians can also support your research needs by making library resources from around the world available through interlibrary loan. Textbooks and course readings are often available through our course reserves system. Visit, call, email, or chat with librarians during regular library hours to use or learn more about library services and resources - 860-832-2060 - or visit the Elihu Burritt Library online: <http://library.ccsu.edu>

## STUDENT DISABILITY SERVICES

If you are a student with a documented disability, and would like to request academic accommodations, you are encouraged to contact Student Disability Services (SDS) at 860-832-1952, or email [disabilityservices@ccsu.edu](mailto:disabilityservices@ccsu.edu). Please visit the SDS website at <http://www.ccsu.edu/sds/> to download an Intake form and documentation requirements. Temporary impairments may also qualify for accommodations. Central Connecticut State University provides reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act for students with documented disabilities on an individualized basis.

## ACADEMIC INTEGRITY

At Central Connecticut State University, we value personal integrity as fundamental to our interactions with each other. We believe that one of the purposes of a University education is for students learn to think critically, to develop evaluative skills, and to express their own opinions and voices. We place special weight on academic honesty in all of our intellectual pursuits because it is a value that is fundamental to academic life and scholarly practice. All members of the University community are obligated to uphold high standards of academic honesty in their scholarship and learning. Therefore, we expect you to take personal responsibility for your intellectual work and to respect and acknowledge the ideas of others. Academic honesty means doing you own work and giving proper credit to the work and ideas of others. It is your responsibility to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. For more information, see CCSU's Academic Integrity website: <http://www.ccsu.edu/academicintegrity/>

## REGISTRAR'S OFFICE

### REGISTRATION/ADD/DROP/WITHDRAWAL PERIODS

You are permitted to add/drop courses, subject to seat availability, through the end of the first week of the semester. Course drops (without a "W" on your transcript) are permitted through the end of the third week of the semester. Withdrawals beginning at the fourth week of the semester will result in a "W" on your transcript. Withdrawals after the twelfth week of the semester will only be permitted if there are extenuating circumstances, supported by documentation, and approval by the Instructor and Department Chair. Add, Drop, and Withdrawal deadlines are prorated for courses less than full semester length. Refer to the Office of the Registrar Calendar at [www.ccsu.edu/registrar](http://www.ccsu.edu/registrar) for specific dates each term.

### ADVISING AND REGISTRATION FOR FUTURE SEMESTERS

Academic Advising begins in late-March for the fall semester and mid-October for the spring semester. Refer to the Office of the Registrar for advising and registration details, including access to the course schedule and identifying registration start date and time.

### FINAL EXAM SCHEDULE

The standard final exam schedule is posted on the Registrar's website by the start of each semester. Examinations will be held in your regularly scheduled classroom unless you are told otherwise by your instructor.

### INCLEMENT WEATHER POLICY

At the discretion of the President, classes may be cancelled or delayed because of inclement weather or special circumstances. The most accurate cancellation and delay information for Central Connecticut State University will be made available on the Storm Phone: (860) 832-3333 and on CCSU's website at [www.ccsu.edu](http://www.ccsu.edu), usually by 6:00 am.