

**The University of Texas at Tyler**  
**Syllabus**  
**Summer 2025**  
**College Physics II**  
**Physics 1302**  
**Section 1**

**Instructor:** Dr. Randy Back

**Class Room:** RBN 4024

**Class Time:** MTWRF 11-12:40

**Office:** RBN 4047

**Phone:** (903) 565-5797

**Email:** rback@uttyler.edu

**Office Hours:** MTWRF 12:40-1 You should feel free to stop by my office any time or make an appointment. If I am available, I will be happy to help you.

**Course Topics:** This course will introduce the student to some basic concepts and principles in physics. Problem solving will be a major component of this class. Major topics covered will include Fluids, Waves, Light, Electric Fields and Magnetic Fields.

**Text:** A digital copy of *College Physics*, by Knight, Jones and Field 4<sup>th</sup> edition with access to modified mastering physics. ISBN-13: 9780136782216

**Prerequisite:** Trig or Pre-Calculus. This class will be in-person.

**Homework:** Homework will generally be assigned after each class period. Homework will be assigned on

<https://mlm.pearson.com/northamerica/masteringphysics/>

The Course ID is: back85965. It will be due by the following class day. You have to spend significant time on the homework to really understand this material.

**Tests:** There will be four in-class tests during the semester. The tentative dates for the tests are (July 14, July 22, July 30 and August 8) Calculators will not be allowed during the test.

**Make-up:** No late work will be accepted. If you have an excused absence you must make up the work before the due date.

**Grading:** The components of your final grade are given below

15 % Homework

85 % Tests

Every correct homework assignment, quiz and groupwork problem completed on time will add 0.1% to your final grade.

Your final letter grade will be given based on the following percentages: A (90%-100%), B (80%-89%), C (70%-79%), D (60%-69%), F (<60%).

**Disclaimer:** All of the above is subject to change due to circumstances beyond our control.

#### **Students Rights and Responsibilities**

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:

<http://www.uttyler.edu/wellness/rightsresponsibilities.php>

#### **Grade Replacement/Forgiveness and Census Date Policies**

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- ☐ Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- ☐ Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- ☐ Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- ☐ Being reinstated or re-enrolled in classes after being dropped for non-payment
- ☐ Completing the process for tuition exemptions or waivers through Financial Aid

#### **State-Mandated Course Drop Policy**

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or

university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

#### **Disability Services**

In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Services counselor. If you have a disability, including a learning disability, for which you request an accommodation, please contact the Disability Services office in UC 3150, or call (903) 566-7079.

#### **Student Absence due to Religious Observance**

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

#### **Student Absence for University-Sponsored Events and Activities**

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

#### **Social Security and FERPA Statement:**

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

*It is important to take the necessary precautions to ensure a healthy and successful year. UT Tyler continues to urge you to protect yourselves against the flu, COVID and any new threats that may be developing. Be diligent about preventive measures such as washing hands, covering sneezes/coughs, social distancing and vaccinations, which have proven to be successful in slowing the spread of viruses. Encourage those who don't feel well to stay home, and if they show symptoms, ask them to get tested for the flu or COVID. Self-isolation is important to reduce exposure ([CDC quarantine/isolation guidelines](#)). Please work with your faculty members to maintain coursework and please consult [existing campus resources](#) for support.*

#### **Recording of Class Sessions**

Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission

**A more complete description of University policies is listed at the following website:**

<http://www.uttyler.edu/academicaffairs/syllabuspolicies.pdf>

**Census Date is July 10 .**

**Last Day to withdraw from a course is July 29 .**

#### **Course Objectives/Student Learning Outcomes**

1. **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

#### **General Course Information**

1. You are responsible for all the material covered in class.
2. Physics builds on itself. It is very important that you do not fall behind on the material.
3. You should read over the material before and after we cover it in class.
4. If you do not understand the material in the book you will not understand the material on the tests.
5. It is very important that you spend time outside class reading the material and doing the homework. The only way you will understand the material is to spend time working the problems.
6. I strongly encourage you to ask questions in class and come by my office any time you need help.
7. Regular classroom attendance is expected.
8. Using electronic devices for non-classroom activities is a distraction and if caught you will be asked to leave class.

**Material for Test 1 (July 7-July 11)**

Chapter 13 sections 1, 2, 3, 4, 5  
Chapter 14 Sections 1, 2, 3, 4, 5  
Chapter 15 Sections 1, 2, 3, 4, 7  
Chapter 16 Sections 1, 2, 3, 4

**Test 1 July 14**

**Material for Test 2 (July 15-July 21)**

Chapter 17 Sections 1, 2, 4  
Chapter 18 Sections 1, 2, 3, 5, 6, 7  
Chapter 20 All Sections

**Test 2 July 22**

**Material for Test 3 (July 23-July 29)**

Chapter 21 Sections 1, 2, 3, 4, 5, 7, 8  
Chapter 22 Sections 1, 2, 3, 4, 5, 6  
Chapter 23 Sections 1, 2, 3, 4, 5, 6, 7

**Test 3 July 30**

**Material for Test 4 (July 31-August 7)**

Chapter 24 Sections 1, 2, 3, 4, 5, 6, 7, 8  
Chapter 25 Sections 1, 2, 3, 4

**Test 4 August 8**