

Syllabus for PHY102 - Atoms to Galaxies

Instructor

Dr. Justin Bergfield

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Office Hours: TR 1:00-2:00pm, by appointment, or anytime my office door is open

Course Details

- **Lectures: TR 11:00AM - 12:15PM in Felmley Hall Annex 0167**
- **Laboratory: T-F 9:00am – 4:00pm in MLT 202 & 204**
- It is my pleasure to introduce you to the basic notions, history, and methodology of physics including the concepts of motion, thermodynamics, electromagnetism, optics, quantum mechanics, and relativity.
- The syllabus, lab schedule, course notes, etc. can be found under 'resources' on your ReggieNet account.

Textbook (recommended but NOT required)

- The Sciences: An Integrated Approach, Trefil and Hazen, Wiley Publishing

Lab Manual (Required)

- Hands on Activities for Physics 102 by Ansher & Goderya

Clicker (Required)

- Clickers are based on TurningPoint Cloud technology used as audience response device.
- Clickers will allow to poll face-to-face class in real time, display the results, engage you in your learning, and get a sense of level of understanding of the course materials.
- Clicker responses will be recorded and incorporated into grades. **100% credit for correct answers and 50% credit for incorrect answers.**
- To make your classroom click response count, please register your unique clicker ID with ReggieNet and bring it to *every* class with you.
- For details on how to register your new clicker for the classroom, please visit <http://ctl.illinoisstate.edu/technology/clickers/students/>

Homework

- Assignments will be available and graded via ReggieNet (<http://reggienet.illinoisstate.edu>).

- Homework will be graded automatically and you will know your score immediately.
- You are usually allowed several attempts on each homework assignment. No late assignments will be accepted.
- **The lowest homework scores will be dropped to account for any unforeseen absences (e.g. due to family events, deployments, work training, etc).**

Laboratory

- **There will be 10 lab activities throughout the semester**
- The lab schedule may be found under “resources” on ReggieNet
- Each activity listed on the schedule must be completed in the computer lab rooms (MLT 202 and MLT 204)
- **Labs may be completed any time the lab is open (T-F 9am-4pm). Each activity must be turned in by the close of lab on Friday afternoon.** Please turn your worksheet in when you leave the lab and write “Bergfield” on them so the grader knows which section you are in.
- You must bring your lab manual with you in order to complete the lab. **No makeup labs will be offered, however your lowest lab score will be dropped to account for any unforeseen absences.**

Exams

- **There will be at least 4 exams during the semester (3 during the term, and 1 comprehensive final).** Exams will be given using OPSCAN forms, and are closed book. You may use a calculator on the exams, but no other devices (phones,laptops,ipods, etc.) are allowed.
- **Your lowest exam (excluding the final) will be dropped** to account for any unforeseen absences. No early or makeup exams will be given. The final exam will be given at the official time during exam week and will be comprehensive.
- **Cheating on the exam will result in a grade of zero for that exam and may result in a failing grade for the semester.**

Grading

<u>Final letter grade scale</u>		<u>Components</u>	
A	89.5-100.0	Homework	25%
B	79.5–89.4	Lab	15%
C	69.5–79.4	In-Class Exams	40%
D	59.5–69.4	Clicker Responses	5%
F	<59.5	Comprehensive Final Exam	15%

Attendance / Participation:

- Regular and punctual attendance is expected during every class meeting. Should you miss a class, you will be responsible for the material missed during your absence.
- The use of cell phones during class will not be allowed. Cell phones must remain in your pocket or bag, and must be on silent or powered off during class.
- Please refrain from talking to your neighbors during class period (unless we are working on a group activity) as it disturbs those students around you.
- In the unlikely event that there are any issues, I will first ask that you please be quiet and if necessary I will ask that you to take your discussion outside.

Free Tutoring

- The Julia N. Visor Academic Center provides free weekly tutoring sessions for this course and many other general education courses. To sign up, call (309) 438-7100.
- The location of the Julia N. Visor Academic Center is Vrooman 012 (Vrooman is between the Manchester and Hewett dorms)
- Information may also be found at www.UniversityCollege.IllinoisState.edu/tutoring

Plagiarism and Cheating

- Academic integrity is an important part of this University and this course. Students are expected to be honest in all academic work, and a student's placement of his or her name on any academic exercise shall be regarded as assurance that the work is the result of the student's own thought, effort, and study. Students who have questions regarding issues of academic dishonesty should refer to the Code of Student Conduct, B1, which outlines unacceptable behaviors in academic matters.

Students with Disabilities

- Any student needing to arrange accommodation for a documented disability should contact Disability Concerns at 350 Fell Hall, 309-438-5853, www.disabilityconcerns.ilstu.edu