This handbook is your guideline for Physics 2135: Engineering Physics II procedures. If corrections are required, the “official” version of this handout is maintained on the Physics 2135 web site (http://campus.mst.edu/physics/courses/24/index.html) and on the Canvas course.


Course Description: An introduction to electricity, magnetism, and light, with emphasis on topics needed by engineering students. Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215

Purpose

The purpose of this course is to provide students with knowledge, conceptual understanding and problem-solving skills in the discipline, so that students have the opportunity to be successful in further studies in science and/or engineering.

Major Course Elements

Professionalism [Required]. Faculty and staff will model professional behavior and expect professional behavior from students. Professional behavior includes respectful interactions with all others both face to face and in correspondence, regular punctual attendance, regular completion of assignments, active engagement in course activities and appropriate outside commitment of time and resources. See student Honor Code (http://stuco.mst.edu/honor-code/).

Lecture [Asynchronous Online, Required] (Tuesdays, Wednesdays, Thursdays and Fridays). Lectures will elaborate on concepts that are difficult to master or understand on a first reading of the material. In addition, examples will be worked to demonstrate the concepts and assist in the development of your problem solving skills. You are expected to have completed your reading assignment prior to lecture.
Recitation [Synchronous Online, Required] (Tuesdays, Wednesdays, Thursdays and Fridays, Either 10:20 am – 11:20 am or 11:30 am – 12:30 pm). Recitation will be an additional source of instruction on important course concepts, with emphasis on developing the problem solving skills necessary for completion of the assigned homework. Your mastery of the material and your problem solving skills will be tested through collection of the assigned homework, collection of in-class exercises and student presentation of homework at the chalkboard.

Laboratory [Asynchronous Online, Required] The laboratory is designed to reinforce concepts learned in lecture and recitation, to connect those concepts to physical experience, to illustrate scientific methods, and teach measurement theory.

Sources of Points and Grading

Exams. There will be three hour exams, given only 11:00 am – 12:00 pm on the Tuesdays listed in the Schedule of Classes (June 23, July 7 and July 21). The final exam is 10:30 am – 12:30 pm, Friday, July 31. These four exams are worth 200 points each. Your lowest exam score (out of the three exams and the final) will be dropped.

End-Material Test. A 50-point end-material test will be given concurrent with the final exam on July 31. This test will cover material presented in class after the material for Exam 3.

Homework. On unannounced recitation days, assigned homework will be collected during recitation. A total of six homework sets will be collected and your lowest score will be dropped.

Recitation. Your recitation instructor will call students to solve a homework problem (or one similar to it). If you are absent when called, a grade of zero will be recorded. In addition, expect your recitation instructor to collect and grade other written work that you do during recitation, including test-level problems. A maximum of 150 points will be given for work done associated with recitation. The lowest recitation score will be dropped. [There is no universal number of recitation assignments. The final recitation average will be converted and reported relative to a 150 point maximum.]

Laboratory. There will be six laboratories during the semester. Your reports are to be turned in to your lab instructor. Lab reports will be graded on the basis of 100 points, and reports will be returned by your lab instructor. The lowest lab report score will be dropped. You do not need to purchase a lab manual for the summer session.
Course Points:  
Exams: 600  
End Material Test: 50  
Homework: 50  
Recitation: 150  
Six Laboratories: 150  
Total 1000

One exam, and one homework score will be dropped. Your recitation instructor will describe how your recitation grade is determined. Your lab points will be 1.5 times your average lab percentage after the lowest lab grade is dropped. Grading is on an absolute scale.

The cut-offs for grades are:

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A & (\geq 89.50\%) \geq 895.0 \\
B & (\geq 79.50\%) \geq 795.0 \\
C & (\geq 69.50\%) \geq 695.0 \\
D & (\geq 59.50\%) \geq 595.0 \\
F & (< 59.50\%) < 595.0
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Some Course Rules

Those participating in a major university or intercollegiate event on the day of an exam may make arrangements with Dr. Musser to take the exam if they submit a written request for an excused absence. The student must submit a written request (email is acceptable) to Dr. Musser, acknowledged in writing (email is acceptable) by the event's Missouri S&T Faculty Sponsor, no later than the end of the last Wednesday lecture the week before the exam.

Your lowest exam score will be dropped. This accommodates students who miss one test due to reasons beyond their control (minor illness, athletic events, family events, etc.). If you did well on all three tests, you may decide to skip the final. If you request and are issued a grade of incomplete due to dire personal circumstances at the course's end, all your exams will count in a prorated way, with none being dropped, in the determination of your course grade.

There are NO make-ups of exams, recitation assignments, labs, or the end-material test. Any missed assignment will result in a grade of zero. The single lowest homework, recitation, lab, and exam score will be dropped. There will be no laboratory make-ups. Laboratory policies are set by faculty in charge of the labs. Because the lowest lab score is dropped, no make-ups will be given.
Regrade policy. Requests for regrades must be submitted no later than the end of the second recitation meeting after the general return of the graded material, except that lab regrade requests must be submitted in accordance with the current lab policy. Regrade requests for the Final Exam must be submitted as soon as possible in order to complete the regrade before grades are due. Except for labs, all regrade requests must be submitted to your recitation instructor. Compose a detailed but brief written statement on a separate sheet of paper explaining why you are requesting a regrade. Attach the sheet to the front of the full assignment and submit it to your recitation instructor by the appropriate deadline.

There are occasional instances in which a score is not entered correctly in the spreadsheet record. In such an event, you must bring your recitation instructor the assignment that was incorrectly recorded, and the correction will be made. It may be necessary to bring all assignments of that type (e.g. homework, etc.) in order to have your scores correctly entered. Spreadsheet corrections involving exams must be requested within two weeks of posting of the exam grades. Other spreadsheet corrections must be requested before the start of the Final Exam.

Academic dishonesty will be dealt with severely, and disruptive talking and other distractions will not be tolerated. There are too many students in a room to allow disruptive behavior. A course instructor may request the campus Judicial Officer to take effective disciplinary action after issuing a single warning. See Student Academic Regulations at http://registrar.mst.edu/academicregs.

Students with inadequate attendance may be dropped. Any student who has inadequate attendance, as evidenced by 5 confirmed absences or by missing a total of 5 graded assignments of any kind (exams, homework, recitation, and labs) are subject to being dropped if a subsequent class or assignment is missed.

Appeals. If you believe an exception to a course rule should be made, you may file a written appeal with your recitation instructor. Appeals must be filed within one week of the occurrence of the circumstance that causes your appeal, or by the end of your last recitation of the semester, whichever comes first. Your appeal will be considered by the entire Physics 2135 teaching staff. This appeals policy applies to course rules given in this handbook, but does not apply to laboratories. Minor illness, lack of preparation, “I did poorly on two exams,” non-emergency family events, oversleeping, “I forgot about it,” etc., are not reasons for filing an appeal.

Complaints About the Course

Unresolved complaints about a laboratory or recitation instructor: Occasionally, a student has a conflict with a laboratory or recitation instructor. It is hoped that any complaints can be resolved in a collegial manner through discussions between student and instructor. However, if such a situation continues or remains unresolved, please feel free to discuss it with Dr. Musser.
Unresolved complaints about the course: It is hoped that any complaints about the course can be resolved in a collegial manner through discussions with Dr. Musser. However, if there are any complaints that cannot be resolved, you may take them up with Dr. Thomas Vojta, Physics Department Chairman.

Title IX: Missouri University of Science and Technology is committed to the safety and well-being of all members of its community. US Federal Law Title IX states that no member of the university community shall, on the basis of sex, be excluded from participation in, or be denied benefits of, or be subjected to discrimination under any education program or activity. Furthermore, in accordance with Title IX guidelines from the US Office of Civil Rights, Missouri S&T requires that all faculty and staff members report, to the Missouri S&T Title IX Coordinator, any notice of sexual harassment, abuse, and/or violence (including personal relational abuse, relational/domestic violence, and stalking) disclosed through communication including but not limited to direct conversation, email, social media, classroom papers and homework exercises.

Missouri S&T’s Title IX Coordinator is interim chief diversity officer Neil Outar. Contact him (naoutar@mst.edu; (573) 341-6038; Temporary Facility A-1200 N. Pine Street) to report Title IX violations. To learn more about Title IX resources and reporting options (confidential and non-confidential) available to Missouri S&T students, staff, and faculty, please visit http://titleix.mst.edu.

Course Assistance

The Student Success Center: The Student Success Center is a centralized location designed for students to visit and feel comfortable about utilizing the campus resources available. The Student Success Center was developed as a campus wide initiative to foster a sense of responsibility and self-directedness to all S&T students by providing peer mentors, caring staff, and approachable faculty and administrators who are student centered and supportive of student success. Visit the SSC at 198 Toomey Hall; 573-341-7596; success@mst.edu; facebook: www.facebook.com/SandTssc; web: http://studentsuccess.mst.edu/

Accessibility and Accommodations: It is the university’s goal that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please contact Student Disability Services at (573) 341-6655, dss@mst.edu, visit http://dss.mst.edu/ for information and to initiate the accommodation process.