PHY111

IntroductiontoEngineeringPhysicsI

DillardUniversity-Fall2003

MeetingTimes:

Voice:

STERN123001 M1:00p-2:50p STERN123901 W1:00p-2:50p

Instructor: RobSalgado
Office: Stern307A

(504)-816-4510

E-mail: rsalgado@dillard.edu

Officehours:

Instant-Messengers: AOL, MSN, Yahoo: **dillardphysics**(do *not*emailhere)

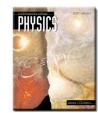
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CatalogDescription:

PHY111IntroductiontoEngineeringPhysicsI.(3c redits)

Anintroductiontoengineeringandphysicstofresh of problems olving physics), an introduction to eng and literature search. Class meets two hours perwe

manstudentscoveringelementaryphysics(Mechanics and principles ineering disciplines and their roles insociety, an dtraining in library ekforlectures and two hours perweek for laborato ry.



RequiredTextbook:

"ContemporaryCollegePhysics"(3rdedition,2001u pdate)byEdwinJonesandRichardChilders (publishedbyMcGraw-Hill:ISBN:0-03-031716-9)

Thistextbookisrequired. (Foreachannouncedshow-me-your-textbookday,nothavingthetextbookwil

<u>Highly-recommended supplement:</u> for example, one of the following...

"Schaum'sOutlineofPhysicsforEngineeringandSc ience"byMichaelBrowne (publishedbyMcGraw-Hill:ISBN0 -07-008498-X)

"Schaum'sOutlineofBeginningPhysicsI:Mechanics andHeat" byAlvinHalpern (publishedbyMcGraw-Hill:ISBN0-07-025653-5)

learnapenaltyof2%.





ElectronicMaterials:

Iwillmaintainawebsite(fornow: http://physics.syr.edu/~salgado/111/)thatliststheassignedproblems and solutions. Iwillalsotry to make available hew hiteboard/PowerPoint notes and any computers ou recode(e.g., Python, Maple) that I use for simulations or computations.

Thetextbookhasanonlinesupplementat http://www.mhhe.com/physsci/physical/jones/

Homework:

Homeworkwillbeassignedbutwillnotbecollected basedonhomeworkproblems,textbookproblems,and textbookexamples. Wewilldiscussthehomeworkinclass. Examandq uizproblems are generally textbookexamples.

Mostofthelearningyoudointhiscourseisdone bydoinghomeworkproblemsoutsideofclass!

Youareencouragedtoworkonthehomeworkwithoth erstudents.

 $However, besure that you can do the problems \\ by your self since you'll be working on quizzes and exams \\ by your self. \\ e(with your text book and your note book and with problems) during Office Hours ... the sooner the bette \\ r. \\ by your self since you'll be working on quizzes and exams \\ e(with your text book and your note book and with problems) during Office Hours ... the sooner the bette \\ r. \\$

ClassroomRules:

Cometoclass **ONTIME**. (Unexcusedtardinesswillearnapenaltyof1%.)

Attendanceis **REQUIRED**.

"The University recognizes that a student may miss however, the student must complete the Student Abse "A professor may drop a student with 3 or more unex Note that your attendance is recorded on the official midter mand final grades heets". "a class for legit imatereas ons. In such cases these absences are excusable; note Form." ... cused absences from a course." (2003-2005 University Catalog, page 15) almidter mand final grades heets absence sare excusable; note Form." ...

"Academic dishonesty will not be to le rated." (2003-2005 University Catalog, page 15)

CometoclassPREPAREDandEQUIPPED, having reador written any assignments.

LimitalldiscussionstothePHYSICStopicunderdi scussion.

<u>TurnOFF</u> allphones, pagers, radios, and other disruptived evices. (*Disruptiveness willearnapenaltyof1%*.)

TreateachotherwithRESPECT.

Grades(forthelectureportion):

10% ATTENDANCE (Eachunexcusedabsencewillearnapenaltyof3%.

AbsencesmustbeexcusedwithinoneweekwithanotefromAcadem icAffairs.)

20% END-OF-CHAPTERQUIZZES(FORMAT: multiple-choic equestions, as hortproblem, and vo cabulary definitions for the next chapter)

20% REGULAREXAMS(FORMAT: many conceptual and computational multiple-choice questions, two or three short problems)

20% MIDTERMEXAM(FORMAT: likear egular exambut cumulative)

30% FINALEXAM(FORMAT: liketworegular exams but cumulative)

 $A \ge 88\%$, $B \ge 76\%$, $C \ge 64\%$, $D \ge 50\%$, F < 50%. This class is not graded on a curve.

Borderlinecases(betweentwolettergrades):Ifyo urexamsshowanupwardtrend,yourgrademaybenu dgedupwards. Theremaybepenalties(describedabove)forbeing tardy,absent,disruptive,orunprepared.

ExamsandQuizzes:QUIZZESaregenerallygivenate ndofeachchapter.Theywillbeginatthestartof theclassperiodandwillendpromptly aftertenminutesofthatperiod.[Nomakeupsorex tensions.Thiswillbestrictlyenforced.Beontim e.]Aftereverytwoorthree chapters,wewillhaveanEXAMonthesechapters.T hereisacumulativeone-hourMIDTERMandacumulat ivetwo-hourFINAL.

Missedexamsandquizzes:Thereare <u>no</u>makeupexamsorquizzes.Thereare <u>no</u>exceptions.

Ifyouareabsentforanexamorquiz, within one week, you must present to meaw ritten excuse from A cademic Affairs.

Onlyif that excuse is valid, your final exam will carry the weight of your misse dexamorquiz.

Otherwise, you will get no credit for the missed ex amorquiz.

Datesyoushouldbeawareof:

LaborDay(Mon,Sept1**noclass**)

MidtermPeriod(Oct13-17)

Founder's Day(Sun, Oct 19)

AcademicAdvisingDay(Wed,Oct29**noclass**)

LastDaytoWithdraw(Fri,Nov21)

ThanksgivingBreak(Thu-Fri,Nov27-28**noclass **)

LastDayofClasses:(Wed,Dec3)

ExamPeriod:Friday,(Fri-Thu,Dec5-10) [the final is only given on the date and time assigned by the University --- do not make early travel plans]

Sequence of PHY111 topics:

Ch1Measurement, Models, and Analysis

Ch2MotioninOneDimension

Ch3MotioninTwoDimensions

Ch4ForceandMotion

Ch5...Gravitation [5.4–5.6TheLawofUniversalGravitation,TheUn iversalGravitationalConstant,GravitationalField Strength]

*Ch22GeometricalOptics

*Ch18ElectricCurrentandResistance [electriccircuits]

(*timepermitting)

August							Ro	ugh	Schedule
Su I	Мо	Tu	We	Th	Fr	Sa			
	25		27				Ch	1	
September									
	[]		3				Ch	2	
	8		10						
	15		17						
	22		24				Ch	3	
	29								
October									
			1						
	6		8						
1315						Ch	4		
	20		22						
	27		[]				Ch	5	
November									
	3		5				Ch	22	
	10		12						
	17		19				Ch	18	
	24		26[]				
December									
	1		3		[5				
	8	9	10						

Highly-recommendedtextsyoumaywishtoconsult:

[&]quot;ConceptualPhysics" by PaulHewitt

 $[&]quot;Physics for Scientists and Engineers" (5 the dition \\) by Raymond A. Serway and Robert J. Beichner \\ \\$