PHY112
IntroductiontoEngineeringPhysicsII
DillardUniversity-Spring2003

MeetingTimes:

001 STERN227	**M 1:00p - 2:50p**	*MUST BE RESCHEDULED*
901L STERN123	**W 1:00p - 2:50p**	*MUST BE RESCHEDULED*

| Instructor: **RobSalgado**
 Office: **Stern307A**
 Voice: **(504)-816-4510** | E-mail: **rsalgado@dillard.edu**

 instant-messengers:AOL,MSN,Yahoo:
 dillardphysics(do *not* emailhere) | Officehours:
 STERN307A **M W 11:00a-12:00p**
 5:00p- 6:00p
 F 11:00a- 2:00p
 LEARNINGCENTER **t.b.a.**
 ordropbymyofficeormakeanappointmentby email. |

CatalogDescription: **PHY112IntroductiontoEngineeringPhysicsII**
An introduction to engineering graphics and computer aided graphics using AutoCAD covering engineering fundamentals/problem of basic engineering graphics (terminologies, virtual symbolisms, lettering, engineering specifications and ethics); basic geometric constructions, descriptive geometry, multiview projection, auxiliary view, isometric projection dimensioning and manufacturing processes. Class meets two hours per week for lecture and two hours per week for laboratory.
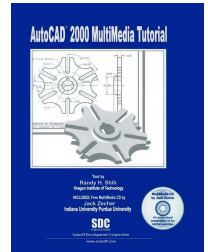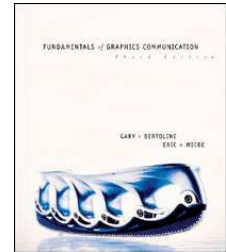
RequiredTextbooks:

FundamentalsofGraphicsCommunication   by**GaryR.BertolineandEricN.Wiebe**
(McGraw-Hill:ISBN: 0-07-232209-8(3rdedition))
AutoCAD2000MultimediaTutorial(BookandCDediti   on) by**RandyH.Shih,,JackZecher**
(SchroffDevelopmentCorp:ISBN:1585030023)

ElectronicMaterials:ThemaintextbookhasaVERY   usefulwebsite: **http://highered.mcgraw-hill.com/sites/0072322098/**
The **AutoCAD2000MultimediaTutorial** hasausefulCDthatwillhelpyoulearntouseAut   oCAD.
Iwillmaintainawebpagethatliststheassignedp   roblemsandsolutions:(temporarilyat) **http://physics.syr.edu/~salgado/112/**

ClassroomRules:
CometoclassONTIME.   (Tardiness will earn a penalty. Leaving early will earn a penalty.)
AttendanceisREQUIRED,inaccordancewithUniversi   tyregulations(page17):
"Unexcused absences in any course shall be limited to the number of semester hours of credit given to the course."
… "A student incurring an excessive number of absences may be dropped from the roster." …"The course instructor will record as two unexcused absences those absences that occur on the day immediately preceding or following an official holiday recess."
Notethatyourattendanceisrecordedontheoffici   almidtermandfinalgradesheets   .
Academicdishonestywillnotbetolerated,inaccor   dancewithUniversityregulations(page18).
CometoclassPREPARED,havingreadorwrittenany   assignments.
LimitalldiscussionstothePHYSICStopicunderdi   scussion.
TurnOFFallphones,pagers,radios,andotherdisr   uptivedevices.   (Disruptiveness will earn a penalty.)
TreateachotherwithRESPECT.

Grades:
30%HOMEWORKANDLABWORK   (**FORMAT:** multiple-choice questions, technical drawing)
30%REGULAREXAMS (**FORMAT:** multiple-choice questions, technical drawing)
15%MIDTERMEXAM (**FORMAT:** like a regular exam but cumulative)
25%FINALPROJECT (**FORMAT:** technical drawing and physical model)
A≥90,B ≥80,C ≥70,D ≥60,F<60.Thisclassisnotgradedonacurve.
Borderlinecases(betweentwolettergrades):Ifyo   urexamsshowanupwardtrend,yourgrademaybenu   dgedupwards.

HomeworkandLab-work:
Homeworkandlab-workwillbeassignedandgraded.   Examproblemsaregenerallybasedonhomeworkprobl   ems,lab-workproblems, textbookproblems,andtextbookexamples.Mostoft   helearningyoudointhisclassisdonebydoing   omeworkproblemsoutsideof class!Youareencouragedtoworkonthehomeworkw   ithotherstudents.However,besurethatyoucand   otheproblems *byyourself* sinceyou'llbeworkingontheexams   *byyourself* .Ifyouneedhelpwithyourhomework,pleasevisit   me(withyourtextbookandyour notebookandwithproofthatyouhavetriedthepro   blems)duringOfficeHours…thesoonerthebetter.
LATEhomeworkorlab-workwillbepenalized.
Youwillsubmitsomeofyourhomeworkandlab-work   electronically…byemailorbyfloppy-disk.

Exams:EXAMSwillbeannouncedaweekinadvance.   [No makeups.]Thereisacumulativeone-hourMIDTERM.
Ifyouareabsentforanexam,youmustpresentan   officialwrittenexcusetome. **Onlyif** thatexcuseisvalid,your **next**scheduledexam willcarrytheweightofyourmissedexam.Otherwis   e,youwillgetnocreditforthemissedexam.

Datesyoushouldbeawareof:

    MartinLutherKingJr.day:Monday,Jan20
    MardiGrasbreak:Monday,Mar3-Wednesday,Mar5
    SpringBreak:Monday,Mar24–Friday,Mar28
    GoodFriday:Friday,Apr18
    LastDayofClasses:Wednesday,Apr30
    ExamPeriod:Friday,May1-ThursdayMay8   [the final is only given on the date and time assigned by the University --- do not make early travel plans]

SequenceofPHY112topics:

      Chapter1:IntroductiontoGraphicsCommunicationa   ndSketching

      Chapter2:TheEngineeringDesignProcess   (readingassignment)

      Chapter3:EngineeringGeometry

      Chapter4:DesignVisualization

      Chapter5:3-DSolidModeling

      Chapter6:MultiviewsandAuxiliaryViews

      Chapter7:PictorialProjections

      Chapter8:SectionViews

      Chapter9:DimensioningandTolerancingPractices

      Chapter10:WorkingDrawingsandAssemblies