

# Course Syllabus<sup>1</sup>

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## CHEM 2123 & 2023 – ORGANIC CHEMISTRY LABORATORY I & RECITATION Spring 2009 - All sections

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**Professor (lab section 101):** Dr. Claudia Taenzler    **Office:** BE 3.516  
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**Course Pre-requisites:** General Chemistry I and II or equivalent (lecture and laboratory)

### Course Description

This is an introduction to basic experimental technique and information sources. Major topics include safety, record keeping, written communication, information sources, physical separations, determination of physical constants, purification and characterization techniques, and basic organic reactions. An important goal of this course is to master technique before shifting the focus to outcome in Organic Chem. Lab II. Correlation with the organic lecture is adequate, but practical factors prevent full overlap.

### Learning Objectives/Outcomes

- Describe and utilize safety protocols associated with basic organic chemistry laboratory operations.
- Know how to keep written records, produce experiment reports, interpret data, and draw relevant conclusions.
- Prepare, purify, and characterize simple organic compounds.
- Know how to work and communicate effectively in small groups and teams.

### Required Textbooks and Materials

**TEXTBOOK:** Pavia, Lampman, Kriz, and Engel. *Introduction to Organic Laboratory Techniques: A Microscale Approach*. 4th ed. Thomson Brooks/Cole, 2007.

**SUPPLIES:** The list below is good for two semesters of organic lab. Supplies must be obtained by Check-in week (typically the second full week of class).

- HARDBOUND NOTEBOOK with duplicate sheets (carbon copies)
- APPROVED SAFETY GLASSES: **Must have the Z87 code engraved on them. The spectacle type is recommended over the goggle type.** Spectacles look like regular glasses, are comfortable, and can be worn over prescription glasses. **Goggles are uncomfortable**, promote sweating, and fog up, thereby impairing vision. For more details see <http://www.cnaservices.org/category.php?category=81>
- DISHWASHING GLOVES: Can be obtained at any store.
- PROTECTIVE CLOTHING: **A lab coat is strongly recommended.** Coats can be obtained at retail outlets such as Sears, and at most uniform and medical supplies stores (scrubs are OK too).
- ITEMS OF PERSONAL USE: Hand soap, towel, economy sponge pack, tweezers, marker or pen, and masking tape (used for labeling).

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<sup>1</sup> *The descriptions and timelines presented in this syllabus are subject to change at the discretion of the Professor.*

## Class schedules and important deadlines – Org. Lab I – Spring 2009

All assignments and lab reports are due a week after the date of the assignment or completion of the experiment. Late materials will receive a 10 point deduction per day. PLEASE NOTE:

**THERE ARE NO EXTENSIONS OR MAKEUPS FOR QUIZZES OR EXPERIMENTS**

RECITATION SCHEDULE	
Jan. 13	Introduction, Safety assignments
Jan. 20	Record keeping, Exp. 9
Jan. 27	Exp. 3 A / Waste disposal protocol
Feb. 3	Exp. 4 A, B
Feb. 10	Exp. 5 A, B
Feb. 17	Exp. 16 A – C
Feb. 24	Exp. 35 B, Gas Chromatography
March 3	Infrared Spectroscopy & Assignment
March 10	Exp. 13 A
<i>SPRING BREAK</i>	
March 24	Exp. 23 A, C
March 31	Exp. 25 A
April 7	Exp. 49 B & Final announcements

EXPERIMENT SCHEDULE	
Jan. 13, 16	NO LABS
Jan. 20, 23	Check-in
Jan. 27, 30	Exp. 9
Feb. 3, 6	Exp. 3 A
Feb. 10, 13	Exp. 4 A,B
Feb. 17, 20	Exp. 5 A,B
Feb. 24, 27	Exp. 16 A – C
March 3, 6	Exp. 35 B & GC Analysis
March 10, 13	Exp. 35 IR Analysis
<i>SPRING BREAK</i>	
March 24, 27	Exp. 13 A
March 31, April 3	Exp. 23 A, C
April 7, 10	Exp. 25 A
April 14, 17	Exp. 49 B
April 21, 24	FINAL EXAM, CHECK-OUT (see p. 4 for details)

### ONLINE QUIZ SCHEDULE (see grading details on p. 5)

Jan. 20 – 26	Quiz 1 & 2 (Safety & Exp. 9)
Jan. 27 – Feb. 2	Quiz 3 & 4 (Lab Reports & Exp. 3)
Feb. 3 – 9	Quiz 5 on exp. 4
Feb. 10 – 16	Quiz 6 on exp. 5
Feb. 17 – 23	Quiz 7 on exp. 16
Feb. 24 – Mar. 2	Quiz 8 on exp. 35 and Gas Chrom.
Mar. 3 – 9	Quiz 9 on Infrared Spectroscopy
Mar. 10 – 23 (includes spring break)	Quiz 10 on exp. 13
Mar. 24 – 30	Quiz 11 on exp.23
Mar. 31 – Apr. 6	Quiz 12 on exp.25
Apr. 7 – 13	Quiz 13 on exp. 49
<b>Apr. 14 – 20 (NO EXTENSIONS)</b>	<b>All quiz review (Not for grade)</b>

To access a quiz, log on to the recitation section in WebCT and click on the *assessments* link.<sup>2</sup> Quizzes **start at 12:00 am** on the beginning date, and **end at 11:55 pm** on the ending date.

<sup>2</sup> **WebCT Problems?** Contact the Computer Help Desk. All information at <http://www.utdallas.edu/ir/helpdesk/>

## TOPIC DESCRIPTIONS

**INTRODUCTION, SAFETY** – Safety in the organic lab, material safety data sheets, internet resources. **The first quiz contains questions from the following readings and assignments:**

- **Readings:** p. 542-554 and 558 in textbook.
- **Assignments (due the second week of class during lab period (check-in day):**
  - a. **Read the *Safety Manual*** from the UTD Chemistry website, available at <http://www.utdallas.edu/chemistry/resources/safety.html>
  - b. **Obtain an MSDS** for a chemical of your choice using the internet. Print it out, write your name at the top, highlight physical constants and any information that strikes you as important, and turn it in to your instructor (**max. length: 10 pages, see note below**). **This is your first report (100 pts).**

**Save paper and ink by copying text from web pages into a word processor. Adjust font size, line spacing, and margins before printing. Change boldface fonts to regular fonts and print in B&W.**

**RECORD KEEPING, BASIC INFORMATION SOURCES** – How to write lab reports and use scientific sources to obtain physical constants and safety information.

**Check-in takes place on the second full week of class.** Report to BE 2.330 at the designated time for your section.

- **Readings:**
  - Familiarizing yourself with organic microscale glassware: p. 566-573 of the textbook.
  - *Guide for writing lab reports.* Available at the instructor's website under CLASS MATERIALS, or: [http://utdallas.edu/~scortes/ochem/OChem\\_Lab1/recit\\_notes/guide\\_to\\_lab\\_reports\\_08.pdf](http://utdallas.edu/~scortes/ochem/OChem_Lab1/recit_notes/guide_to_lab_reports_08.pdf)

**EXP. 9. ANALGESIC DRUGS AND ISOLATION OF ACTIVE INGREDIENT.** Solid-liquid extraction, filtration, and melting point determination.

- **Readings:** p. 71-74, 618-624, and 627-633
- **Assigned questions from exp. 9:** # 1-5 on p. 74. Please include with your lab report.

**LAB REPORTS ARE DUE A WEEK AFTER COMPLETION OF THE CORRESPONDING EXPERIMENT**

**EXP. 3A. CRYSTALLIZATION.** Basic technique and uses, vacuum filtration.

- **Readings:** p. 22-25, 637-646, 647-656, and table on p. 659.
- **Assigned questions from the textbook:** # 1 on p. 32. Please include with your lab report.

**EXP. 4 A & B. EXTRACTION.** Liquid-liquid extraction, miscibility & solubility issues, distribution coefficient.

- **Readings:** p. 32-37, 669-677, and 679-685.
- **Assigned questions from the textbook:** # 1 on p. 42. Please include with your lab report.

**EXP. 5 A & B. THIN LAYER CHROMATOGRAPHY (TLC).** Theory and practice of chromatography.

- **Readings:** p. 42-46, 777-779, and 782-788.
- **Assigned questions from the textbook:** problems # 1 – 4 on p. 791. Please include with your lab report.

**EXP. 16 A – C. ISOLATION OF PIGMENTS FROM SPINACH.** Combined use of column chromatography and TLC to isolate and identify natural products.

- **Readings:** p. 136-142, and 758-763.
- **Assigned questions from the textbook:** # 1, 3, 4 on p. 142. Please include with your lab report.

**EXP. 35 B. REDUCTION OF CAMPHOR and GAS CHROMATOGRAPHY.** Synthesis and separation of diastereomeric alcohols by Gas Chromatography.

- **Readings Experiment 35:** p. 288 – 293 and 295 – 297.
- **Readings Gas Chromatography:** p. 797 – 806 (including section 22.7), and 810 – 811 (section 22.12).
- **Assigned questions from the textbook:** # 3 on p. 301, and # 2, 4 on p. 817 – 818. Please include with your lab report.

**INFRARED SPECTROSCOPY.** Principles and applications of IR spectroscopy in organic analysis.

- **INDIVIDUAL ASSIGNMENT: IR interpretation exercise.** Obtain this exercise from the instructor's website.
- **This assignment counts as a report (100 pts) and is due the week of March 4 in your lab section.**

**EXP. 13A. CHEMICAL SYNTHESIS: PREPARATION OF ISOPENTYL ACETATE.** Esterification, reflux, simple distillation, boiling point determination, driving equilibrium reactions.

- **Readings:** p. 99-108, 600-603, 694-696, and 702-710.
- **Assigned questions from the textbook:** 3-7 on p. 107-108. Please include with your lab report.

**EXP. 23 A & C. SYNTHESIS OF ALKYL HALIDES AND NUCLEOPHILIC SUBSTITUTIONS.** Illustration of Sn1 and Sn2 reactions applied to the synthesis of alkyl halides.

- **Readings:** p. 195-203.
- **Assigned questions from the textbook (p. 203):** For *n*-Butyl bromide: 1, 3-5. For *t*-Butyl chloride: 3, 5.

**EXP. 25 A. ELIMINATION REACTIONS: PREPARATION OF 4-METHYLCYCLOHEXENE.** Illustration of acid-catalyzed E1 reaction, alkene synthesis, tests for unsaturation, IR analysis.

- **Readings:** p. 211-216.
- **Assigned questions from the textbook:** 1, 2(a-d), and 3 on p. 216. Please include with your lab report.

**EXP. 49 B. PREPARATION OF NYLON.** Polymerizations and types of polymers.

- **Readings:** p. 397-405, 409-410, and 413.
- **Assigned questions:** None.

**FINAL EXAM and CHECKOUT** – These two activities take place in the lab at the time that your section meets. The final exam is a written, multiple choice test. Bring a pencil and a calculator. No Scantron is needed, you will mark your answers in the test.

- No checkout is allowed prior to this date unless you withdraw from the course.
- **All lab reports are due on this date.**

## Grading Policy

- Online quizzes 10%
- Individual prelabs 20%
- Group reports / individual assignments 50%
- Final exam 20%
- Bonus (attend 8 or more recitations) 5%

*The lowest grade in each of the first three categories will be dropped at semester end.*

LETTER GRADE ASSIGNMENT TABLE (based on final percent grade after round-off)

95 - 100 = <b>A+</b>	80 - 84 = <b>B+</b>	65 - 69 = <b>C+</b>	50 - 54 = <b>D+</b>
90 - 94 = <b>A</b>	75 - 79 = <b>B</b>	60 - 64 = <b>C</b>	45 - 49 = <b>D</b>
85 - 89 = <b>A-</b>	70 - 74 = <b>B-</b>	55 - 59 = <b>C-</b>	40 - 44 = <b>D-</b>

**RECITATION LECTURES** cover theory, safety issues, and procedural changes for experiments. They prepare students for experiments, quizzes, and the final exam. As a result, they always precede experiments.

**ONLINE QUIZZES.** Quizzes are based on lecture notes and assigned readings. The following criteria apply:

- There is no time limit to take a quiz, other than the period during which it is available (see schedule on p. 2)
- You're allowed two trials for each quiz and the highest grade prevails.
- The final exam is largely based on questions similar to those in the quizzes. **Therefore, it is to your advantage to answer the quizzes without help if you hope to do well in the final exam.**

**INDIVIDUAL PRELABS.** These write-ups are required prior to the performance of every experiment. They include the objective of the experiment, materials to be used, and a brief outline of the experimental procedure. For complete guidelines refer to the document *Guide for writing lab reports* (see below).

**GROUP LAB REPORTS.** These write-ups refer to work performed in the organic lab by a group of students. **The report represents the work of the group as a whole and returns a grade that applies to the group as a whole.** For complete guidelines refer to the document *Guide for writing lab reports* (see below).

The *Guide for writing lab reports* is available at the instructor's website under CLASS MATERIALS, or simply go to: [http://utdallas.edu/~scortes/ochem/OChem\\_Lab1/recit\\_notes/guide\\_to\\_lab\\_reports\\_08.pdf](http://utdallas.edu/~scortes/ochem/OChem_Lab1/recit_notes/guide_to_lab_reports_08.pdf)

**INDIVIDUAL ASSIGNMENTS.** These are individual write-ups assigned during a lecture, intended to be done outside the lab, and handed in during lab.

*ALL PRELABS, GROUP REPORTS, AND ASSIGNMENTS ARE GRADED ON A 100 PT. SCALE*

**FINAL EXAM.** This is a written test taken during class time on the last week of labs (see schedule on p. 2 for exact date). It is based on recitation notes, quizzes, and assigned questions from the textbook. **Therefore, it is imperative to answer the quizzes without help if you hope to do well in the final exam.**

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## Course Policies

### SAFETY POLICY

Safety awareness is important in the organic chemistry lab due to the presence of fumes, solvents, flammables, and toxic materials. **Students who disregard safety rules represent a liability to the university.** Lab instructors have authority to reprimand offenders, deduct points from their lab report, ask them to leave the room, or refer them to the lab coordinator. The lab coordinator reserves the right to penalize, or even dismiss, such students.

**IF YOU ARE UNWILLING TO COMPLY WITH SAFETY RULES, READ NO FURTHER AND DROP THIS COURSE!**

As a chemistry student, **you are required to read the UTD undergraduate laboratory policies manual.** This manual is available at the UTD Chemistry website under *Safety Manual*, or directly at <http://www.utdallas.edu/chemistry/resources/safety.html>. Key points are:

- **Eye protection is mandatory** for anyone physically present in the lab.
- **Protective gear such as a lab coat is mandatory** at all times. Shorts, sandals, tank tops, or any other gear that leaves large areas of skin exposed are not allowed. Jewelry is discouraged.
- **Gloves must be worn** whenever the instructor, a chemical label, the textbook, or an MSDS recommends them. Dishwashing gloves are adequate for most purposes. Disposable gloves are not and their use is discouraged. If you wear disposable gloves **YOU DO SO AT YOUR OWN RISK**.
- **Pregnant students** are discouraged from taking this course. If you are pregnant and want to stay in it, you must submit written medical approval to the Chemistry Department office (BE 2.318) or to the lab coordinator. Your request will be sent to the Dean of Natural Sciences and Mathematics for final approval.
- **Contact lenses are not allowed** in the chemistry labs. Certain commercial outlets offer prescription safety glasses. Please consult with your instructor or lab coordinator if interested.
- **Allergies or other medical conditions** that may be adversely affected by certain chemicals should be reported to the instructor and the lab coordinator before the student handles such chemicals.
- **Drugs or medication** that could impair normal mental or physical functioning are not allowed. If you are taking prescription drugs that might fall in this category, please notify the lab coordinator before attempting any experiments.
- **All accidents must be reported immediately** to the instructor or the lab coordinator, however minor they might seem. Failure to do so may prevent taking appropriate measures and can further aggravate the situation.

#### MISSED EXPERIMENTS POLICY

1. **All incomplete experiments count as missed experiments.** If you work with a partner, both must be present for the entire experiment. Doing otherwise negates the concept of team work and will result in a missed experiment for the missing partner.
2. The **FIRST** missed experiment will be dropped without penalty.
3. The **SECOND** missed experiment will carry a grade of zero.
4. **The THIRD missed experiment will result in automatic failing grade in the course, regardless of how the student performs otherwise.** If you miss more than two experiments you should drop the course.
5. No experiments can be made up, and no section switching is allowed.

#### LAB ETIQUETTE & OTHER IMPORTANT POINTS

**DISRUPTIVE BEHAVIOUR** such as horseplay and pranks in the chemistry lab can be dangerous and precipitate accidents. Therefore, the lab coordinator and the lab staff reserve the right to reprimand, penalize, or even dismiss students who consistently disregard the rules of etiquette.

**PUNCTUALITY POLICY.** Students who are late invariably cause unnecessary delays and strain in the organic lab schedule. **After the first 15 minutes, any students who arrive late to the lab session without a justifiable reason will receive a 20 point deduction from the corresponding lab report.**

**TIDINESS.** There are approximately 10 sections of organic lab running in the same room on any given week. It is imperative that you clean after yourself after every experiment, or others will have to do it.

*As a matter of courtesy to others, always leave the work space as you would like to find it.*

**CHECKING EQUIPMENT IN AND OUT.** You will receive a drawer with equipment that you will be responsible for during the semester. Any equipment missing at checkout time will be charged to your student account.

- *If you quit attending or drop the course, you must check out as soon as possible to avoid unnecessary charges to your account.*
- *Stopping attendance without official withdrawal results in automatic failing grade.*

## **Student Conduct & Discipline**

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part I, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

## **Academic Integrity**

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

## **Email Use**

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

## **Withdrawal from Class**

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

## **Student Grievance Procedures**

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor,

supervisor, administrator, or committee with whom the grievance originates (hereafter called “the respondent”). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent’s School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean’s decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

### **Incomplete Grade Policy**

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester’s end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

### **Disability Services**

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:

The University of Texas at Dallas, SU 22

PO Box 830688

Richardson, Texas 75083-0688

(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student’s responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

### **Religious Holy Days**

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete

any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

### **Off-Campus Instruction and Course Activities**

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at the website address given below. Additional information is available from the office of the school dean. ([http://www.utdallas.edu/Business\\_Affairs/Travel\\_Risk\\_Activities.htm](http://www.utdallas.edu/Business_Affairs/Travel_Risk_Activities.htm))