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## Course Syllabus

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*Please read this document carefully and check for updates frequently.  
Students are responsible for understanding and complying with the policies and guidelines in this document.*

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### Course Information

CS/TE/CE 2305 Discrete Mathematics for Computing I

Fall 2012

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### Professor Contact Information

Instructor: Dr. Linda Morales

E-mail: **Please use eLearning e-mail to communicate with the professor.**

Office: ECSS 3.208

Office Hours: Tuesday 2:30 pm-5:00 pm CN 1.202A/1.202D (<http://www.utdallas.edu/maps/>)  
Wednesday 1:00 pm-3:00 pm ECSS 2.502 (ECS Undergraduate Advising Office)  
3:00 pm-5:00 pm CN 1.202A/1.202D  
Thursday 2:30 pm-5:00 pm CN 1.202A/1.202D  
Other hours by appointment.

Please note: all e-mail communication with the professor and teaching assistants must be sent through **eLearning e-mail**.

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### Teaching Assistants

**Please see the TAs for your section for questions about Homework grading.**

***Our course TAs will hold office hours in our Discrete Math Mentor Center in CN 1.202A,D:***

Teaching Assistant	Office Hours	TA for which section:
Yiqi Cai	W 1-3pm, R 5-6pm	2305-502 (TR 5:30-6:45pm)
Ruogu Sheng	F 2-5pm	2305-502 (TR 5:30-6:45pm)
Yin Yang	TR 1-2:30pm	2305-501 (TR 7:00-8:15pm)
Longsheng Xia	TBA	2305-501 (TR 7:00-8:15pm)

**To send e-mail to a TA, please use eLearning e-mail.**

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### Discrete Math Mentor Center

I have organized a Mentor Center for our Discrete Math class in the Clark Center, Rooms CN 1.202A,D at the times listed below. All students are encouraged to visit the center for help on homework and other items related to our class.

Location: CN 1.202A,D <http://www.utdallas.edu/maps/>

Hours: Monday 1-6pm  
Tuesday 1-6pm  
Wednesday 1-6pm  
Thursday 1-6pm  
Friday 2-5pm

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### **E-mail Communication with your Professor and Teaching Assistants**

- All e-mail communication with the professor and teaching assistants must be sent through **eLearning e-mail**.
- To use your eLearning e-mail, login to the eLearning website, click on the link for this course, and click on the e-mail icon on the left side of the page.

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### **Course Pre-requisites, Co-requisites, and/or Other Restrictions**

Prerequisite courses:

MATH 1326: Applied Calculus II or MATH 2413: Differential Calculus or MATH 2417: Calculus I.

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### **Textbooks and Other Materials**

Textbook: Discrete Mathematics and Its Applications, Seventh Edition, by, McGraw-Hill, 2012.  
Author: Kenneth Rosen  
Publisher: McGraw-Hill  
ISBN: 978-0-07-338309-5

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### **Student Learning Objectives/Outcomes**

- Ability to use and apply basic definitions and properties of logic.
- Ability to recognize and construct valid proofs including proofs by induction.
- Ability to understand what an algorithm is, use algorithms, use Big-O notation and algorithmic complexity.
- Ability to use basic counting techniques.
- Ability to use and apply basic definitions and properties of sets, relations, functions.
- Ability to use and apply basic definitions and properties of graphs, trees.

Additional topics will be discussed if time permits.

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**Calendar** (for more detail, see <http://www.utdallas.edu/academiccalendar/documents/Fall2012Calendar-7.pdf>)

#### **Tentative Exam Dates (Exam dates will be reconfirmed by the professor prior to each exam)**

Exam 1.....	Thursday, September 20
Exam 2 .....	Tuesday, October 16
Exam 3 .....	Thursday, November 8
Exam 4 .....	Tuesday, December 11

#### **Drop/Withdrawal Deadlines** *Please check Comet calendar for signature procedures.*

(for more information, visit <http://www.utdallas.edu/student/registrar/lookup/dropadd.html>)

Last day to drop a class without a "W" ..... Wednesday, September 12

#### **Undergraduate Courses**

Signatures required.....	Thursday, September 13– Tuesday, October 30
WP/WF begins.....	Tuesday, October 9
WP/WF ends .....	Tuesday, October 30

#### **University Closings**

Labor Day.....	Monday, September 3
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Thanksgiving holidays ..... Thurs., Nov. 22 – Sat., Nov. 24  
Winter break ..... Mon., Dec. 24, 2012 – Tues., Jan. 1, 2013

**No Classes**

Fall break..... Mon., November 19 – Wed. November 21

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### **Withdrawal from Class**

The university administration has set deadlines for withdrawal of any college-level courses. These dates and times are published in the 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.

**Again, it is YOUR responsibility to submit the paperwork if you need to withdraw from a class. 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**

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### **Grading Policy**

***Course grade is computed using the following weights. NO EXTRA CREDIT GIVEN!!!***

Exam 1	17%
Exam 2	20%
Exam 3	20%
Exam 4	20%
Assignments	12%
Classroom citizenship	11%

**Letter grades:**

<b>A+</b>	97%-100%	<b>A</b>	92%-96%	<b>A-</b>	90%-91%
<b>B+</b>	87%-89%	<b>B</b>	82%-86%	<b>B-</b>	80%-81%
<b>C+</b>	77%-79%	<b>C</b>	72%-76%	<b>C-</b>	70%-71%
<b>D+</b>	65%-69%	<b>D</b>	60%-64%	<b>D-</b>	50%-59%
<b>F</b>	Below 50%				

**PLEASE NOTE!!! DEPARTMENT POLICY STATES THAT FOUR (4) ABSENCES WILL RESULT IN LOWERING THE COURSE GRADE BY ONE LETTER.**

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### **Course & Instructor Policies**

*(make-up exams, extra credit, late work, special assignments, class attendance, classroom citizenship, etc.)*

### **Instructional Method**

Discrete mathematics concepts will be introduced and discussed in class. Students are encouraged to be active participants in the classroom discussion. Learning objectives will be achieved and reinforced through classroom discussion, homework exercises, quizzes and exams.

### **Course Announcement Policy**

- This syllabus is posted in the CS 2305 course page in eLearning.

- Other course related information, such as class announcements, assignments and policies will be posted as needed at the same website.
- ***It is your responsibility to check the website frequently for up-to-date information.***
- If needed, your Professor may communicate with you by e-mail. It is your responsibility to check your eLearning e-mail frequently to receive such communications. ***In order to receive e-mail it is your responsibility to make sure that your e-mailbox is not full.***
- All e-mail communication must be done using the eLearning website.

### Homework Assignments

**PLEASE NOTE!!! DEPARTMENT POLICY STATES THAT INTERVENTION WILL BE REQUIRED IF HOMEWORK ASSIGNMENTS ARE NOT SUBMITTED.**

- Homework assignments are an important tool for mastering the material.
- Frequent homework assignments will be given.
- The homework will consist of reading assignments and homework problems.
- You are responsible for completing and understanding the reading assignments and homework problems to be successful in this class.
- **If you have questions about homework problems, reading assignments or classroom material, please visit me during my office hours and visit our Mentor Center. There are many resources available to you if you need help. Please utilize them to maximize your success in our class.**
- Please read each homework assignment carefully and follow the directions given on the homework sheet.
- Homework assignments will be posted on the eLearning Homework folder. You are responsible for downloading and completing the assignment and submitting it by the due date.
- Each homework assignment is due at the time and date posted at the eLearning course website.
- Each homework assignment must be submitted using its associated eLearning dropbox.
- **Late homework policy:**
  - 20% will be deducted from the grade for a late homework submission for each day past the due date and time.
  - **NOTE!!!** This means that the grade for a submission that is more than 4 days late will be 0% **REGARDLESS OF THE REASON FOR THE LATE SUBMISSION!!!**

### Quizzes

- Pop quizzes may be given, covering homework assignments and lectures.
- **There will be no make-up quizzes.**

### Exam Policy

- You are expected to take the exams on the scheduled day and time.
- **Do not schedule travel on exam days. This includes all exam dates.**
- Rescheduling of exams will be considered only in rare special circumstances with adequate documentation.
- You should talk with me by 8/31/12 if you have an *appropriately documented, extraordinary circumstance* for rescheduling.
- **Usage of cell phones, portable media players or computers is absolutely not allowed during quizzes and exams.**

### Classroom citizenship

- Classroom citizenship describes appropriate behavior in the classroom that promotes an effective atmosphere for learning and exemplifies respect for yourself, your fellow students, your TAs and your professor.
- Examples of good classroom citizenship include (but are not limited to) the following:
  - academic honesty
  - regular attendance
  - on-time arrival in the classroom
  - participation in classroom discussions and activities
  - turning cell phones off or muting them during class and during exams
  - turning off and putting away all portable media players while in the classroom or exam room
  - usage of laptops for lecture-related activities **ONLY**
  - attentiveness during the lecture
  - etc.

## Attendance

**PLEASE NOTE!!! DEPARTMENT POLICY STATES THAT FOUR (4) ABSENCES WILL RESULT IN LOWERING THE COURSE GRADE BY ONE LETTER.**

- Classroom lectures and homework assignments are extremely important for your success in this class. You are strongly advised to attend every lecture and to complete all of your homework assignments.
- Attendance will be taken in class. Inadequate class attendance and/or tardiness **WILL** result in a lower grade for the course.
- If an emergency arises that forces you to miss a class,
  - **Please send an e-mail to the professor explaining the reason for your absence. This e-mail must be received within 48 hours of the absence.**
  - Please obtain contact information from some of your classmates so that you can find out what you missed if you were absent. **This is your responsibility. There are no make-up quizzes.**
  - You are responsible for completing homework assignments, and obtaining and understanding class notes and handouts for the missed class.
  - You are responsible for checking eLearning for homework assignments and class announcements.
- You are expected to take the exams on the scheduled day and time.
  - **Do not schedule travel on exam days. This includes all exam dates.**
  - Rescheduling of exams will be considered only in rare special circumstances with adequate documentation.
  - You should talk with me by 8/31/12 if you have an *appropriately documented, extraordinary circumstance* for rescheduling.

## Cell Phone, Laptop and Portable Media Player Policy

- Please turn off or mute your cell phone during class.
- **PLEASE TURN OFF AND PUT AWAY ALL PORTABLE MEDIA PLAYERS AND HEADPHONES.** Usage of such devices is **ABSOLUTELY NOT ALLOWED DURING CLASS**. This includes all mp3 players, ipods, etc.
- **Cell phone usage during class is not allowed.** This includes sending or reading text messages, browsing the internet, or any other usage.
- If an emergency arises that requires you to accept a phone call, please step out of the room.
- **If you bring a laptop to class, do not check your e-mail, browse the internet, or use it for any purpose that is not directly related to the lecture.**
- Laptops may be used in class only for the purpose of taking class notes during the lecture. **PROFESSOR'S PERMISSION IS REQUIRED FOR LAPTOP USAGE IN CLASS!**
- **Usage of cell phones or computers and portable media players is absolutely not allowed during quizzes and exams.**

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## eLearning Support

- This course uses eLearning for homework submissions and as a repository for information related to the course. Examples of information available at our course's eLearning website are the course syllabus and a document containing instructions for downloading software to be used in the course.
- Students are expected to know how to use eLearning to do tasks such as: accessing the eLearning website for this course, reading announcements, reading and sending e-mail through eLearning, accessing and downloading documents from the eLearning website, submitting homework assignments using an eLearning dropbox, taking quizzes through eLearning, checking the eLearning gradebook. These skills are not taught in this course.
- If you experience any problems with your eLearning account, please visit for information about obtaining help <http://www.utdallas.edu/elearning/eLearningHelpdesk.html> or call the eLearning helpline at 866-588-3192 for assistance.

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## Technical Support

If you experience any problems with your UTD account you may send an email to: [assist@utdallas.edu](mailto:assist@utdallas.edu) or call the UTD Computer Helpdesk at 972-883-2911.

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### **Field Trip Policies**

#### **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 [http://www.utdallas.edu/BusinessAffairs/Travel\\_Risk\\_Activities.htm](http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm). Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.*

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### **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 printed 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, Series 50000, Board of Regents, The University of Texas System*, 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) and online at <http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-HOPV.html>

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.

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### **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.

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

Students found guilty of an instance of scholastic dishonesty in this course will receive a failing grade for the assignment, quiz, project or test in which the incident occurred, and possibly a failing grade for the course. More serious penalties may be imposed by appropriate university officials.

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.

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### **Copyright Notice**

The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted materials, including music and software. Copying, displaying, reproducing, or distributing copyrighted works may infringe the copyright owner's rights and such infringement is subject to appropriate disciplinary action as well as criminal penalties provided by federal law. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. As a UT Dallas student, you are required to follow the institution's copyright policy (Policy Memorandum 84-I.3-46). For more information about the fair use exemption, see <http://www.utsystem.edu/ogc/intellectualproperty/copypol2.htm>

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### **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.

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### **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.

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### **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**.

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### **Office of Student AccessAbility**

The goal of Office of Student AccessAbility is to provide students with disabilities equal educational opportunities. Student AccessAbility provides students with a documented letter to present to the faculty members to verify that the student has a disability and needs accommodations. This letter should be presented to the instructor in each course at the beginning of the semester and accommodations needed should be discussed at that time. It is the student's responsibility to notify his or her professors of the need for accommodation. If accommodations are granted for testing accommodations, the student should remind the instructor five days before the exam of any testing accommodations that will be needed. Office of Student AccessAbility is located in Room 3.200 in the Student Services Building. Office hours are Monday – Thursday, 8:30 a.m. to 6:00 p.m., and Friday 8:00 a.m. to 5:00 p.m. You may reach Student AccessAbility at (972) 883-2098.

Guidelines for documentation are located on the Student AccessAbility website at <http://www.utdallas.edu/studentaccess/documentation/>

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### **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.

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***These descriptions and timelines are subject to change at the discretion of the Professor.***