CS/CE/TE 2305.502 – Discrete Math for Computing I

Course Information

Course Number/Section	*CS/TE/CE 2305.502*
Course Title	*Discrete Math for Computing I*
Term	*Fall 2016*
Days & Times	*T THR 5:30 –6:45 pm*
Location	*JO 3.516*

Professor Contact Information

Instructor	*Dr Bill Semper*
E-Mail	*WJS130130@utdallas.edu*
Office hours	*T THR, 4:00 – 5:00pm, ECSS 4.602*
Phone	*972-883-4139*

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

Prerequisite:	*Prerequisite: MATH 1326 or MATH 2413 or MATH 2417. Students cannot get credit for both CE 2305 and (CE 3307 or TE 3307).*

Course Description

CE 2305 - Discrete Mathematics for Computing I (3 semester hours) Principles of counting. Logic and proof methods, including induction. Basic recurrence relations. Basics of algorithm complexity. Sets, relations, functions. Elementary number theory.

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

Required Textbooks and Materials

Text: "Discrete Mathematics and its Applications", Seventh Edition, Kenneth H. Rosen, McCraw-Hill, 2012

Assignments & Academic Calendar
We will cover Chapters 1-6 of the book, with selected topics.

Date	Event
Sept 15	Test 1
Oct 20	Test 2
TBD	Test 3

Grading Policy

HW assignments   10%
Test 1   30%
Test 2   30%
Test 3   30%

100-98, A+	97-92, A	91-90, A-
89-88, B+	87-82, B	81-80, B-
79-78, C+	77-72, C	71-70, C-
69-68, D+	67-62, D	61-60, D
59-0 ☹		

Resources
Utilize the publisher website: www.mhhe.com/rosen. There is a section for students.
Mentor sessions: TBD
Wikipedia, Google, , ….

Computer Science Department Attendance Policy: Three consecutive absences leads to one letter grade drop. Four consecutive absences leads to an F.

For detailed information about University policies and procedures related to this syllabus, please refer to http://go.utdallas.edu/syllabus-policies.