Course Information

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Course Number:	Math 3330	
Course Name:	Discrete Structures II	
CRN:	26602	
Location:	MCS 213	
Class Hours:	MWF 9:00-9:50am	
Textbook:	Discrete Mathematics by Johnsonbaugh (7 th) Note that this text was also used for Discrete Structures I	
Prerequisites:	Math 2330 or Math 2335	

Instructor Information

Name:	Dr. Jeffrey Beyerl	
Office Location:	MCS 237	
E-mail:	jbeyerl@uca.edu	
Phone:	501-450-5652	

Office Hours: By appointment or walk-in. Designated walk-in times are:

Monday	8-8:50am; 11-11:50am	
Tuesday	3-4:00pm	
Wednesday	8-8:50am; 11-11:50am*	
Thursday	9-11:00am†	
Friday	8-8:50am	

*These office hours on are in the MRC

+These office hours online: message me using Google Apps

Question: Can I only come during office hours? Answer: You can come anytime, if I am there! I am typically in my office from 8am until 4pm; office hours are merely designated times that I try not to schedule meetings.

Course Description

This course in discrete mathematics is designed for mathematics and computer science majors. The topics include recursion, graph theory, matrices, algorithms, basics of formal languages and automata theory. Applications leading to the development of algorithms are emphasized.

Question: Will we be doing any computer programming? Answer: This course is primarily about mathematics. We will see ties to computer algorithms, ties to programing languages, and ties to programing. But there will be no computer programming assignments.

Course Objectives and Requirements

The primary goal of this course is to further the study of discrete mathematics started in discrete I. It will focus, in particular, on topics relevant to studies in computer science.

Grading Policy

Your grade will be computed from quizzes, tests, two projects, and a final exam.

Quizzes will come in two types. There will be many, short, quizzes on Blackboard, the lowest 20% of which will be dropped. There will also be three in class quizzes given approximately one week before each test.

Tests will be administered approximately one third, two thirds, and three thirds into the semester. Make-up tests will only be given for official university events or personal emergencies. In the former case the test must be taken before official test date, in the latter case a short letter explaining why you missed the test, why this justifies a make-up, and supporting documentation must be turned in by the day you are able to return to class.

Borderline grades will be determined based on the final exam and effective participation throughout the course.

Blackboard Quizzes	10%
In Class Quizzes (3 total)	5%
Test 1	15%
Test 2	15%
Test 3	15%
Graph Theory Project	5%
Formal Languages Project	5%
Final Exam	20%
Final exam or Project average (Whichever is higher)	10%

Course Average	Course Grade
[90,100]	A
[80,90)	В
[70,80)	С
[60,70)	D
[0,60)	F

Student Learning Objectives

- Be able to analyze simple and recursive algorithms in terms of runtime and space requirements.
- Be able to apply combinatorial techniques to solve advanced counting problems.
- Be able to explain and trace algorithms on graphs; also be able to apply related theoretical results.
- Be able to solve recurrence relations.
- Be able to analyze a formal language or automata.

Attendance Policy

Your active participation in this course is expected and required for you to learn the material and earn a passing grade. If you fail to regularly and actively participate it will demonstrate that you are not making a reasonable effort to complete this course, and you will be administratively dropped for non-attendance with a grade of WF.

Important Dates

Last day to Drop	January 13 th
Drop means the course is not on your record	,
Quiz 1	February 1 st
Test 1	February 5 th
Quiz 2	February 24 th
Test 2	February 29 th
Midterm Grades Available	March 2 nd
Last day to Withdraw Withdraw means the course is on your record with a "W" but does not factor into your GPA	March 18 th
Quiz 3	April 8 th
Test 3	April 13 th
Last day for WF/WP WF means withdraw failing and is factored into your GPA as an "F" WP means withdraw passing and is not factored into your GPA WF/WP will be decided by whether or not your current grade is above or below 60%. Please see me to verify your grade before withdrawing with a WF/WP.	April 15 th
Final Exam	Wednesday April 27 th
	2pm-4pm

Outside of class resources

- The Textbook
 - Description of material
 - Example problems
 - Exercise problems
- Blackboard
 - Quiz/test solutions
- Previous course materials (http://faculty.uca.edu/jbeyerl/courses.html)
 - o Quizzes, tests, and solutions
- Office Hours
 - o Individual help
 - o Come with questions
- The Math Resource Lab
 - o Group Study Area
 - o Some tutors may be familiar with this material, but there is no guarantee
- Torreyson Library
 - o Group Study Rooms

Academic Integrity Statement

The University of Central Arkansas affirms its commitment to academic integrity and expects all members of the university community to accept shared responsibility for maintaining academic integrity. Students in this course are subject to the provisions of the university's Academic Integrity Policy, approved by the Board of Trustees as Board Policy No. 709 on February 10, 2010, and published in the Student Handbook. Penalties for academic misconduct in this course may include a failing grade on an assignment, a failing grade in the course, or any other course-related sanction the instructor determines to be appropriate. Continued enrollment in this course affirms a student's acceptance of this university policy.

Americans with Disabilities Act Statement

The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, please contact the UCA Office of Disability Services, 450-3613.

Title IX disclosure:

If a student discloses an act of sexual harassment, discrimination, assault, or other sexual misconduct to a faculty member (as it relates to "student-on-student" or "employee-on-student"), the faculty member cannot maintain complete confidentiality and is required to report the act and may be required to reveal the names of the parties involved. Any allegations made by a student may or may not trigger an investigation. Each situation differs and the obligation to conduct an investigation will depend on those specific set of circumstances. The determination to conduct an investigation will be made by the Title IX Coordinator. For further information, please visit: https://uca.edu/titleix. *Disclosure of sexual misconduct by a third party who is not a student and/or employee is also required if the misconduct occurs when the third party is a participant in a university-sponsored program, event, or activity.

Sexual Harassment and Academic Policies Statement

All students are required to familiarize themselves with the University of Central Arkansas policy on sexual harassment and on academic policies. These policies are printed in the Student Handbook.

Building Emergency Plan Statement

An Emergency Procedures Summary (EPS) for the building in which this class is held will be discussed during the first week of this course. EPS documents for most buildings on campus are available at http://uca.edu/mysafety/bep/. Every student should be familiar with emergency procedures for any campus building in which he/she spends time for classes or other purposes.