

<p style="text-align: center;"><b>Mathematics 451-01: Graph Theory</b> The Citadel Fall 2016</p>
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### Course Description

A formal introduction to the theory and applications of graphs. Topics include connectivity, trees, Eulerian graphs, Hamiltonian graphs, planarity, graph colorings, matchings, and domination.

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**Instructor:** Dr. Breeanne Swart  
**Office:** TH 328  
**Email:** breeanne.swart@citadel.edu  
**Telephone:** 953-5048  
**Office Hours:** MWF 11am-12pm  
T 2-3pm  
or **by appointment**

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**Text:** A First Course in Graph Theory. Gary Chartrand and Ping Zhang  
**Lectures:** MW 2:30-3:45pm  
**Room:** TH 316

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### Attendance

You will be accountable for attendance and tardiness. If you miss 20% of scheduled classes, you may receive an F. I encourage you to ask questions at any time if you need me to clarify something for you. I will always try to make some time at the beginning of class to answer any questions you may have about previous lectures or homework problems. Please come to class prepared. That means you need to read the section **before** the lecture in which it will be covered. **No cell phones**, laptops, or other electronic devices are to be used during class.

### Homework

There will be written homework assignments due regularly. These assignments will be posted on CitLearn. It is your responsibility to regularly check CitLearn for these assignments and to know the due dates. All assignments need to be typed using L<sup>A</sup>T<sub>E</sub>X. Figures can be hand drawn.

### Project

You will need to complete a project which further explores a topic related to graph theory beyond the material covered in class. The project will consist of a paper and a presentation.

Further details will be discussed during class and posted on CitLearn.

## Exams

There will be two 75-minute exams given during regular class time and a cumulative final exam. They are scheduled as follows:

<b>Exam 1</b>	Monday, September 19
<b>Exam 2</b>	Monday, October 24
<b>Final Exam</b>	Tuesday, December 13 1-4pm

## Make-Up Policy

**Exams:** In order to be considered for a make-up exam, the following rules hold:

1. Severe personal illness or emergency/death in the immediate family.
2. The instructor must be notified **prior** to the exam.
3. Ample documentation of circumstances is required.

Note that optional events and guard duty are **not** valid excuses for missing an exam.

## Grades

Your grade for this course will be based on a total of 600 points.

Homework	100 points	<b>Course Grading Scale</b>		
Paper	100 points	Grade	Points	Percent
Presentation	50 points	A	540-600	90-100
Exam 1	100 points	B	480-539	80-89
Exam 2	100 points	C	420-479	70-79
Final Exam	150 points	D	360-419	60-69
		F	0-359	0-59

## Communication

You are expected to check your Citadel email regularly. You are expected to check CitLearn regularly for additional announcements and class materials.

## Accommodations for students with disabilities

If you anticipate issues related to the format or requirements of this course, please meet with me. I would like us to discuss ways to ensure your full participation in the course. If you determine that formal, disability related accommodations are necessary, it is very important that you register with the Academic Support Center (117 Thompson Hall, 843-953-1820) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodations.

## Schedule

This schedule is tentative and subject to change.

Day	Date	Topic	Notes
W	Aug 24	1.1-1.2	
M	Aug 29	1.3-1.4	
W	Aug 31	2.1-2.2	
M	Sep 5	2.2-2.3	
W	Sep 7	3.1	
M	Sep 12	3.2	
W	Sep 14	Review	
M	Sep 19	Exam 1	
W	Sep 21	4.1-4.2	
M	Sep 26	4.2-4.3	
W	Sep 28	5.1-5.2	
M	Oct 3	5.2-5.3	
W	Oct 5	5.3-5.4	
M	Oct 10	6.1	
W	Oct 12	6.2	
M	Oct 17	Review	
W	Oct 19		NO CLASS – LEADERSHIP DAY
M	Oct 24	Exam 2	
W	Oct 26	8.1-8.2	
M	Oct 31	8.2-8.3	
W	Nov 2	9.1	
M	Nov 7	9.2	
W	Nov 9	10.1-10.2	
M	Nov 14	10.2-10.3	
W	Nov 16	13.1	
M	Nov 21		FALL BREAK
W	Nov 23		FALL BREAK
M	Nov 28		
W	Nov 30		
M	Dec 5	Presentations	
W	Dec 7	Review	
T	Dec 13	Final Exam	1-4pm