

Math 298 – Graph Theory

Spring 2010

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Office hours: Tuesdays 11-12, and Thursdays 11-1

Course Materials – The text for this course is *Graph Theory A Problem Oriented Approach* by Daniel Marcus. In addition, a useful reference is the online book *Graph Theory with Applications* by Bondy and Murty.

Course Goals – After successfully completing this course you will have gained an understanding of the basic techniques of Graph Theory. In particular we will explore properties of undirected and directed graphs, trees, connectivity, traversability, and graph colorings.

Homework – Each day there will be reading and homework assigned. Some assignments will be turned in and graded, some will be discussed in class, but not graded. The problems assigned to hand in will be collected at the beginning of the class meeting. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference. For every hour in class you should expect to spend at least 2 hours doing work outside of class. You cannot learn mathematics without lots of practice!

Oral Presentation – Each student will prepare and present a section of the text to the class. These presentations are scheduled for the last two weeks of the semester.

Exams – There will be two in-class exams and a cumulative final. The tentative dates for the in-class exams are February 19 and March 31 The final will be on May 3.

Attendance – Mandatory. Regular attendance is vital. A late assignment will be graded with a reduction of 10% for each day it is late. There will be no make-up quizzes given, and make-up exams are given only in extreme, pre-approved cases. If you must miss an exam it is your responsibility to contact me in advance Students who are unable to attend class are responsible for all assignments and material covered in that class.

Grading – Grades will be the result of quizzes, homework, and two tests. The breakdown is as

follows:

- Homework – 25% total
- Oral Presentation – 5%
- In-Class Exams – 20% each
- Final Exam – 30%

Learning Disability Accommodations – Students who have documented learning disabilities and wish to request accommodations for this class should contact the Learning Services Department. Accommodations cannot be provided unless official documentation is received from the appropriate campus office.

Mathematics Department Academic Honesty Policy – The Mathematics Department supports and is governed by the Academic Honesty Policy of Moravian College as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

In all at-home assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. You also may not use a solution manual or the help (orally or in written form) of any individual other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. You may work with your fellow students on homework which is not to be graded. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and un-graded.

All in-class or take-home tests and quizzes are to be completed by you alone without the aid of books, study sheets, or formula sheets unless specifically allowed by your instructor for a particular test.