

INTRODUCTION TO GRAPH THEORY

SECOND EDITION (2001)

SOLUTION MANUAL

SUMMER 2005 VERSION

© DOUGLAS B. WEST

MATHEMATICS DEPARTMENT

UNIVERSITY OF ILLINOIS

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NOTICE

This is the Summer 2005 version of the Instructor's Solution Manual for *Introduction to Graph Theory*, by Douglas B. West. A few solutions have been added or clarified since last year's version.

Also present is a (slightly edited) annotated syllabus for the one-semester course taught from this book at the University of Illinois.

This version of the Solution Manual contains solutions for 99.4% of the problems in Chapters 1–7 and 93% of the problems in Chapter 8. The author believes that only Problems 4.2.10, 7.1.36, 7.1.37, 7.2.39, 7.2.47, and 7.3.31 in Chapters 1–7 are lacking solutions here. Those problems are too long or difficult for this text or use concepts not covered in the text; they will be deleted in the third edition.

The positions of solutions that have not yet been written into the files are occupied by the statements of the corresponding problems. These problems retain the (+), (0), (+), (+) indicators. Also (+) is added to introduce the statements of problems without other indicators. Thus every problem whose solution is not included is marked by one of the indicators, for ease of identification.

The author hopes that the solutions contained herein will be useful to instructors. The level of detail in solutions varies. Instructors should feel free to write up solutions with more or less detail according to the needs of the class. Please do not leave solutions posted on the web.

Due to time limitations, the solutions have not been proofread or edited as carefully as the text, especially in Chapter 8. Please send corrections to west@math.uiuc.edu. The author thanks Fred Galvin in particular for contributing improvements or alternative solutions for many of the problems in the earlier chapters.

This will be the last version of the Solution Manual for the second edition of the text. The third edition will have many new problems, such as those posted at <http://www.math.uiuc.edu/~west/igt/newprob.html>. The effort to include all solutions will resume for the third edition. Possibly other pedagogical features may also be added later.

Inquiries may be sent to west@math.uiuc.edu. Meanwhile, the author apologizes for any inconvenience caused by the absence of some solutions.

Douglas B. West

Mathematics Department - University of Illinois

MATH 412

SYLLABUS FOR INSTRUCTORS

Text: West, *Introduction to Graph Theory*, second edition, Prentice Hall, 2001.

Many students in this course see graph algorithms repeatedly in courses in computer science. Hence this course aims primarily to improve students' writing of proofs in discrete mathematics while learning about the structure of graphs. Some algorithms are presented along the way, and many of the proofs are constructive. The aspect of algorithms emphasized in CS courses is running time; in a mathematics course in graph theory from this book the algorithmic focus is on proving that the algorithms work.

Math 412 is intended as a rigorous course that challenges students to think. Homework and tests should require proofs, and most of the exercises in the text do so. The material is interesting, accessible, and applicable; most students who stick with the course will give it a fair amount of time and thought.

An important aspect of the course is the clear presentation of solutions, which involves careful writing. Many of the problems in the text have hints, either where the problem is posed or in Appendix C (or both). Producing a solution involves two main steps: finding a proof and properly writing it. It is generally beneficial to the learning process to provide "collaborative study sessions" in which students can discuss homework problems in small groups and an instructor or teaching assistant is available to answer questions and provide direction. Students should then write up clear and complete solutions on their own.

Suggested Schedule

The subject matter for the course is the first seven chapters of the text, skipping most optional material. Modifications to this are discussed below. The 22 sections are allotted an average of slightly under two lectures each.

In the exercises, problems designated by (+) are easier or shorter than most, often good for tests or for "warmup" before doing homework problems. Problems designated by (0) are harder than most. Those designated by (0) are particularly instructive, entertaining, or important. Those designated by (+) make use of optional material.

The semester at the University of Illinois has 43 fifty-minute lectures. The final two lectures are for optional topics, usually chosen by the students from topics in Chapter 8.

Chapter 1	Fundamental Concepts	8
Chapter 2	Trees and Distance	5.5
Chapter 3	Matchings and Factors	5.5
Chapter 4	Connectivity and Paths	6
Chapter 5	Graph Coloring	6
Chapter 6	Planar Graphs	5
Chapter 7	Edges and Cycles	5
-	Total	41

Optional Material

No later material requires material marked optional. The "optional" marking also suggests to students that the final examination will not cover that material.

The optional subsections on Disjoint Spanning Trees (Bridge-10) in Section 2.1 and Stable Matchings in Section 3.2 are always quite popular with the students. The planarity algorithm (without proof) in 6.2 is appealing to students, as is the notion of embedding graphs on the torus through Example 6.3.21. Our course usually includes these four items.

The discussion of k -factors in Section 3.3 is also very instructive and

Grimaldi Solution Manual Graph Theory

Robin J. Wilson, W. J. Wingate



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Reviewing **Grimaldi Solution Manual Graph Theory**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Grimaldi Solution Manual Graph Theory**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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