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INSTRUCTOR'S MANUAL

MANAGING INFORMATION TECHNOLOGY

Seventh Edition

Carol V. Brown Daniel W. DeHayes Jeffrey A. Hoffer E. Wainright Martin William C. Perkins

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PREFACE

Today's private and public organizations are increasingly dependent on information technologies for achieving their strategic and operational objectives. Over the past decade alone, enterprise systems have been expanded to provide secure, electronic linkages with suppliers and customers, and the Internet has become a mainstream channel for communications and business transactions. As a result, decision-making about information technology resources has also become even more visible as the roles and accountabilities of the IS function have become important not only operationally but also strategically.

The overall objectives and targeted audience for this edition remain the same as for the prior sixth edition: to provide comprehensive coverage of IS management practices and technology trends for advanced students and managers. Earlier editions of this textbook have been used for courses in MBA, MS in IS, and executive education programs, as well as in advanced undergraduate courses. We believe that our approach of providing both up-to-date chapter content and full-length case studies, written by the same authors, results in a unique set of materials for educators to customize for students seeking careers as business managers, IS managers, or IS specialists.

NEW TO THIS EDITION

- All 15 chapters in this edition have been revised to reflect up-to-date technology trends and state-of-the-art IS management practices.
- The total number of chapters has been reduced from 17 to 15 to better match the semester schedules of many of our textbook adopters.
- Overall topical coverage has been retained, but we have reduced some presentations of the content as follows:
 - Chapter 2 (Computer Systems) includes content from separate chapters on computer hardware and computer software in the sixth edition.
 - The content from Chapter 13 of the sixth edition has now been incorporated into two chapters in the seventh edition: The discussion of key characteristics of user-developed applications appears in Chapter 9 ("Methodologies for Custom Software Development") and the discussion of support and control mechanisms for end-user computing appears in Chapter 13 ("Leading the Information Systems Function").
- The in-depth case studies in this edition include five completely new case studies and six that have been significantly revised.

THE CHAPTER CONTENT

Following an introductory chapter that sets the stage for learning about IS management roles and technology trends, the textbook chapters are presented in four parts:

Part I—Information Technology provides background knowledge about major information technology components: hardware and software, networks, and data. Depending on the targeted audience, these chapters may be assigned as background readings as a kind of "level-setting" for students from different educational and work backgrounds and experiences.

Part II—Applying Information Technology introduces in detail the capabilities of three categories of software applications: enterprise systems, managerial support systems, and e-business systems.

Part III—Acquiring Information Systems prepares the reader for leading and participating in projects to design or select, implement, and support the utilization of software applications—including methodologies for custom-developed systems and purchased software packages, as well as IT project management.

Part IV—The Information Management System provides knowledge about effectively planning IS resources for the business, leading IS units responsible for provisioning these resources, and best practices for addressing information security, as well as larger social, legal, and ethical issues related to information technologies.

THE TEACHING CASES

To demonstrate real-world IS management challenges, this textbook also includes a set of six to eight full-length case studies for each of the four parts of the textbook. These full-length case studies are based on research by academic authors with access to Fortune 500 companies, midsized companies, and some not-for-profit or government organizations. Some of the company names are camouflaged, but many are not.

Each of the 30 case studies in this seventh edition provides rich descriptions of both successful and problematic real-world situations so that students can learn about the challenges of implementing new information systems, the capabilities of different types of software applications—including those that leverage the Internet, the difficulties encountered when managing IS projects with different levels of complexity, and approaches to effectively address systems integration and other technology leadership challenges—from both IS manager and non-IS manager perspectives. The five completely new case studies in the seventh edition address these specific topics:

- Implementing technologies to support mobile clinics (Case Study I-4)
- Deciding on a new enterprise-level IT platform (Case Study I-6)
- Developing a business intelligence capability (Case Study II-3)
- Mining data to increase government tax revenues (Case Study II-4)
- Exploring the potential organizational benefits of social media (Case Study II-6)

Several other case studies have also been significantly revised to take into account new technical or managerial developments.

THE SUPPLEMENT PACKAGE: <u>www.pearsonhighered.com/brown</u>

A comprehensive and flexible technology support package is available to enhance the teaching and learning experience. All instructor and student supplements are available on the text's Web site. See *www.pearsonhighered.com/brown*. The Web site also includes a large number of "old favorite" case studies from earlier editions.

Instructor Resource Center

The following Instructor Resources are available on the secure faculty section of the Brown Web site:

■ *Instructor's Manual* The *Instructor's Manual* includes syllabi for several courses (both undergraduate and master's level) that have been used in this book. It also includes lecture notes on each chapter, answers to the review and discussion questions at the end of each chapter, and teaching notes on the case studies that have been prepared by the textbook authors.

■ *Test Item File and TestGen Software* The Test Item File includes multiple-choice and True/False questions for each chapter in this textbook. The Test Item File is available in Microsoft Word and for use with the computerized Prentice Hall TestGen, as well as WebCT and Blackboard-ready conversions. TestGen is a comprehensive suite of tools for testing and assessment. Screen wizards and full technical support are available to instructors to help them create and distribute tests to their students, either by printing and distributing through traditional methods or by online delivery.

■ *PowerPoint Slides* The PowerPoint slides that have been developed for this edition emphasize the key concepts in the text, include many of the figures in the text, and provide some Web links to enhance student learning. Faculty instructors can customize these presentations by adding their own slides and links to Web resources and/or by editing the existing ones.

■ The *Image Library* is a collection of the text art organized by chapter. This collection includes all of the figures, tables, and screenshots (as permission allows) from the book. These images can be used to enhance class lectures and PowerPoint slides.

The Graduate Information Technology Management Course

This book is written for students who are, or aspire to be, *either business managers or IS managers*, as well as for students who are, or aspire to be, primarily technology specialists who will work in and for different types of businesses—including consultant firms and other firms competing in an IT services industry. The content of the book is therefore intentionally broad in its coverage, with an emphasis on what managers *and* IS professionals need to know about IT management.

Part I of the textbook can be used as background reading only—especially if the course is for IT specialists familiar with most of these IT concepts. For business students with less familiarity, other approaches may be required—such as independent reading with assessments using quizzes based on the text bank questions for those chapters—and/or providing lectures on these topics.

Part II provides a broad introduction to the range of applications available to today's organizations, and the business opportunities enabled by them. Our experience is that the content in these three chapters is of great interest to working managers as well as younger students.

Part III primarily focuses on the management of software development initiatives: alternative approaches to acquiring and implementing custom-developed and purchased software and managing IT projects of different types them.

Part IV informs both business and IS managers of what is required to effectively manage and lead an IS organization today; the last chapter also addresses broader IT-related social, ethical and legal issues.

The graduate IT management course therefore focuses on preparing students for responsibilities that entail leveraging IT resources for operational and strategic business benefits.

Examples of Master's Level Courses

There are many variations of MBA and MSIS courses for which this book can be used. In the past, the textbook authors have used the textbook for different courses over the years at Indiana University: an IT management course in the full-time MBA program at the Bloomington campus and the evening MBA program at the Indianapolis campus; a course in our full-time MBA in Accounting program at the Bloomington campus; a course in an Executive MBA program; a course

in our online MBA and Master's programs (Kelley Direct), and a course in our full-time Master's in Information Systems program. The outlines that follow can be modified for full-time twice-a-week, one evening a week, and online course schedules.

Our experience is that graduate-level courses are most effective when students are involved in discussions and projects. The following course outline therefore uses the case studies in the book to obtain student involvement. All of these cases are based on data collected from real organizations. Although some of the companies are disguised, only non-essential contextual information and names have been changed to camouflage these sources.

Case studies can of course be used in many ways. For each case study in the textbook, we provide in this *Instructor's Manual* the case study objectives, an overview, and some discussion questions; for some cases we also provide additional teaching suggestions. A common approach is to have the instructor lead the case study discussion, asking students to outline the situation, identify the problems, and suggest solutions. With this approach, we often distribute some preparation questions ahead of time to guide the students' reading of the case—but then ask some different questions in class. This discussion can be handled either by taking volunteers from the class to move the discussion forward, or by "cold-calling" on students using some kind of random selection process. Here the instructor can make sure that many of the major points he or she wants to cover on the topic are brought out and discussed via the case study. One way to ensure participation in each case discussion is to raise a question that requires each student to "vote," and then call on students to justify their vote. If case studies are carefully chosen, they should tie in well with the associated chapter, so lecturing can be minimized.

Another approach for graduate classes involves dividing the class into teams of 4 or 5 students, and having each team prepare a written analysis of one case study and make a formal presentation of that case study to the entire class. A second team could also be given the assignment to critique the in-class presentation. (See the description for students called "Team Case Assignments" that follows the graduate course outlines below.) The instructor can then ask follow-up questions of both teams to ensure that the most important points have been discussed. Each member of the audience can be asked to fill out a short evaluation form on each team presentation, and the instructor aggregates the results and adds their own observations as part of their feedback to the team. We may also videotape the presentation and ask each presenter to write a short critique of his or her own presentation. The number of team presentations scheduled for a given class meeting depends on the size of the class, but including team presentations gives students the opportunity to develop their communications skills, as well as their effectiveness in teamwork, all of which are very important for MBAs.

The first two course outlines below follow the book very closely, but it can easily be modified in many ways to suit instructor preferences. For example, the chapters have been written to be as independent as possible, but we sometimes vary the order in which the chapters are covered. You can also modify the amount of time devoted to the various topics. For example, one outline devotes class time to the technical chapters (Chapters 2 and 3), but if your students already have a good technical education, you may be able to omit these chapters entirely or perhaps schedule an optional session on this material. Alternatively, if you believe it is important to ensure that your students have a broad knowledge of technology concepts, you may choose to spend several class periods on each of these chapters.

For graduate-level examinations, we recommend a heavy usage of essay questions. If multiple choice questions are used for the technology chapters, we recommend scheduling them early in the semester and setting a score minimum score that must be obtained (e.g., 85%). For students that

don't obtain that score, a similar "retake" quiz is then made available that requires the students to learn on their own what was wrong with their initial set of answers to prepare for the second quiz on the same topics.

<u>Master's IT Management Course Outline (Full-Time Students)</u> The following course outline is for full-time students. The schedule is two 75-minute classroom sessions per week, a fifteen-week semester, and a separate final examination period.

Week	Session	Торіс	Reading Assignment / Case Study Assignment
Week 1	First	Course Introduction;	Chapter 1
		Managing IT in a Digital World	*
	Second	Managing IT in a Digital World	Midsouth Chamber of Commerce
			(A)
Week 2	First	Computer Systems (Hardware)	Chapter 2; IMT Custom Machine
			Company, Inc.
	Second	Computer Systems (Software)	Chapter 2
Week 3	First	Telecommunications and Networking	Chapter 3
	Second	Telecommunications and Networking	Supporting Mobile Health Clinics
Week 4	First	The Data Resource	Chapter 4; Data Governance at
			InsuraCorp
	Second	Enterprise Systems	Chapter 5; ERP Purchase Decision
			at Benton Manufacturing, Inc.
Week 5	First	Enterprise Systems	Real-Time Business Intelligence at
			Continental Airlines
	Second	Managerial Support Systems	Chapter 6; Mining Data to Increase
			State Tax Revenues in California
Week 6	First	E-Business Systems	Chapter 7; Vendor-Managed
			Inventory at NIBCO
	Second	E-Business Systems	The Cliptomania Web Store
Week 7	First	Review	
	Second	MIDTERM EXAMINATION	
Week 8	First	Basic Systems Concepts	Chapter 8
	Second	Methodologies for Custom Software	Chapter 9
		Development	
Week 9	First	Methodologies for Custom Software	Managing a Systems Development
		Development	Project at Consumer & Industrial
	0 1		Products, Inc.
	Second	Methodologies for Purchased Software	Chapter 10; A Make-or-Buy
		Packages	Decision at Baxter Manufacturing
W. 1- 10	Einst	Mathedala fra fra Draula a 1 Coference	Development I I and the section of t
week 10	First	Nethodologies for Purchased Software	Purchasing and Implementing a
		Packages	Student Management System at
	Second	IT Project Management	Chapter 11
	Second	11 Floject Management	
Week 11	First	IT Project Management	NIRCO's "Big Bang". An SAD
WOOK II	1 11 51	11 110jour munugement	Implementation

Week	Session	Торіс	Reading Assignment / Case Study Assignment
	Second	IT Project Management	A Troubled Project at Modern Materials, Inc. <i>or</i> Kuali Financial Systems: An Open Source Project
Week 12	First	Planning Information Systems Resources	Chapter 12; H.H. Gregg's Applicances, Inc.: Deciding on a New IT Platform
	Second	Planning Information Systems Resources	The Clarion School for Boys, Inc Milwaukee Division
Week 13	First	Leading the IS Function	Chapter 13
	Second	Leading the IS Function	IT Infrastructure Outsourcing at Schaeffer (A) and (B)
Week 14	First	Leading the IS Function	FastTrack IT Integration for the Sallie Mae Merger
	Second	Leading the IS Function	Systems Support for a New Baxter Manufacturing Plant in Mexico <i>or</i> Meridian Hospital Systems, Inc.: Deciding Which IT Company to Join
Week 15	First	Information Security	Chapter 14
	Second	Social, Ethical, and Legal Issues	Chapter 15; Mary Morrison's Ethical Dilemma
Week 16		FINAL EXAMINATION	

Master's IT Management Course Outline (Evening or Weekend Students)

This outline is for a Master's IT course that meets once a week in the evening or on a Saturday. This syllabus also includes team project presentations (a Web Site Analysis project described in this *Instructor's Manual* for Ch. 7), a guest speaker (as recommended for Ch.13), and two exams.

Week	Торіс	Reading Assignment / Case Study
Week 1	Course Introduction; Managing IT in a Digital World	Chapter 1; Midsouth Chamber of Commerce (A)
Week 2	Computer Systems	Chapter 2; Web Site Analysis assignment introduced
Week 3	Telecommunications and Networking; The Data Resource	Chapter 3; Chapter 4; Supporting Mobile Health Clinics; Data Governance at InsuraCorp.
Week 4	Enterprise Systems; Using IT to Redesign Processes	Chapter 5; NIBCO's "Big Bang"
Week 5	Managerial Support Systems	Chapter 6; Real-Time Business Intelligence at Continental Airlines
Week 6	E-Business Systems	Chapter 7; Vendor-Managed Inventory at NIBCO; Rock Island Chocolate Company
Week 7	Team Presentations: Web Site Analysis	Web Site Analysis Due
Week 8	MIDTERM EXAMINATION	
Week 9	Basic Systems Concepts; Methodologies for Custom Software Development	Chapter 8 (skim); Chapter 9; Consumer & Industrial Products, Inc.
Week 10	Methodologies for Purchased Software Packages	Chapter 10; Make-or-Buy Decision at Baxter Manufacturing Company
Week 11	IT Project Management	Chapter 11; A Troubled Project at Modern Materials, Inc.
Week 12	Planning IS Resources	Chapter 12; H.H. Gregg's Appliances, Inc.
Week 13	Leading the IS Function	Chapter 13; IT Infrastructure Outsourcing at Schaeffer (A) and (B)
Week 14	Leading the IS Function; Guest Speaker: CIO	FastTrack IT Integration for the Sallie Mae Merger
Week 15	Information Security; Social, Ethical, and Legal Issues	Chapter 14; Chapter 15
Week 16	FINAL EXAMINATION	

Master's IT Management Course Outline (Online)

A course outline for an online course that takes place during a 12-week trimester schedule is given below. In this alternative, a readings packet (including *Harvard Business Review, Sloan Management Review, and MIS Quarterly Executive* articles) and digitized mini-lectures are used in addition to the textbook. For this course, the Chapters from different Parts of the textbook are assigned together, and online quizzes are provided to test for basic understanding of the technology concepts in Part 2.

Week	Торіс	Reading Assignment / Case Study
		Assignment
	Unit 1: Introduction	Video: Introduction to the Course and Unit 1
Week 1	Course Introduction; Managing IT in a Digital World	Chapter 1; Chapter 15
	Unit 2: Understanding Business Opportunities Enabled by IT	Video: Introduction to Unit 2
Week 2	Recognizing Disruptive Technologies; Technology Concepts—Hardware and Software	Chapter 8 on BPR; reading on disruptive technologies; Chapter 2; IMT Custom Machine Company, Inc.
Week 3	Leveraging E-Business; Technology Concepts— Telecommunications and Networking	Chapter 7; reading on e-business leadership and influence of the Internet on competitive forces; Vendor-Managed Inventory at NIBCO; Rock Island Chocolate Company; Chapter 3
Week 4	The IT Business Case	Chapter 12; online PowerPoint presentations on a business case (in general and IT-specific); H.H. Gregg's Appliances
Week 5	MIDTERM EXAMINATION	
	Unit 3: Acquiring Information Systems	Video: Introduction to Unit 3
Weeks 6 and 7	Group Project Signup: Technologies in Business	Familiarization with tools for group project
Week 6	Strategic Value from Enterprise Systems	Chapter 4; Chapter 5; readings on CRM; Real-Time Business Intelligence at Continental Airlines
Week 7	Strategic Decision-Making Support	Chapter 6; Chapter 9; Mining Data to Increase State Tax Revenues in California
Week 8	The Delivery of Information Systems	Chapter 10; Chapter 11; reading on continuous improvement with enterprise systems; NIBCO's "Big Bang"
	Unit 4: Leveraging IT	Video: Introduction to Unit 4

Week	Торіс	Reading Assignment / Case Study Assignment
Week 9	Sourcing IT Work	Chapter 13; readings on outsourcing trends, including BPO; IT Infrastructure Outsourcing at Schaeffer (A) and (B)
Week 10	Managing in a Global Digital World	Chapter 14; readings on managing global IT organizations; The MaxFli Sales Force Automation System at BAT
Week 11	Team Projects Due: Technologies in Business	

Team Case Assignments

Team Presentation

A problem-solving approach to case analysis will be introduced in class. For this approach, the team should take a consultant role, and assume that it was hired by the organization to:

Make use of your knowledge of IS management; Provide an objective opinion on one or more problems; Provide realistic options for action for this organization

For other cases, a problem-solving approach may not be relevant, and the team should take an educator role. The case may be viewed as a "textbook example" to be critiqued in relation to other class readings and/or experience.

Written Presentation

The text should be a maximum of 6 double-spaced pages. You should include copies of all tables, diagrams, etc. used in your presentation. The cover sheet should include team member names. Provide copies to each member of the critiquing team and 2 copies to the instructor.

Oral Presentation

The presentation should be your professional best, last no more than 30 minutes, and each team member should have a part. You should illustrate your presentation with PowerPoint slides; be sure that the fonts on these sides are readable when projected in your classroom.

Oral Critique

There will be a 5-minute break after the oral presentation while the critiquing team prepares. During this time the other class members will complete a presentation evaluation form for each presenter.

The critiquing team should point out the positive aspects of the case presentation as well as those areas where there may be room for improvement or alternative conclusions. If a problem-solving approach was appropriate for this case, the critiquing team should evaluate the case presentation for the following:

Accurate assessment of the current situation; Complete formulation of issues or problems; Technologically and organizationally sound recommendations for action

If a problem-solving approach was not appropriate, the critiquing team should evaluate the case presentation for:

Accurate presentation of the situation; Relevant application of class readings and experience

If your team has little to actually criticize about the earlier presentation, your team should at least present some alternative recommendations and the implications (or "next steps") that you would recommend.

The Undergraduate Information Technology Management Course

This text has also been used with success at the undergraduate level. For the undergraduate student, the review and discussion questions at the end of each chapter can be used to help them focus on specific aspects of each chapter. We sometimes require that written answers be prepared for a small subset of these questions; these are evaluated by the instructor, but perhaps with only 3 grades given: A+, satisfactory, and unsatisfactory.

Several case studies are also assigned. Our experience is that this course may be the first one that students take that involves the use of case studies. If so, the instructor needs to provide some guidance to the student about how to go about preparing for a class discussion. The case studies also must be carefully selected so that the contextual details do not overwhelm a student that has had little (or essentially no) relevant work experience.

For this course we also recommend the use of computer laboratories/computer assignments to help students get some hands-on experience with some of the key concepts. In the following outline we have provided for five laboratory sessions and related assignments. This approach adds an element of variety in delivery to a predominantly lecture/discussion course. It is assumed that each laboratory session will take the form of a demonstration and/or laboratory exercise, and that most computer homework assignments will be given at the end of a laboratory session and due a few weeks later. Of course, the particular topics covered in these lab sessions will vary depending upon the coverage in prerequisite courses and the needs of your particular undergraduate program.

Several other points should be made about the course coverage. First, while a significant number of case study discussions are listed, these discussions do not tend to be as long or in as much depth as they would be in a graduate course. Our usual approach is to distribute the case study discussion questions via electronic mail two to three days before the class session, and then use these discussion questions to channel the case study discussion. Second, more complex case studies are assigned at the end of the course; by this time, the students should have increased their skills in case study problem-solving, but preparation questions should be used to help them focus on specific aspects of the case study. Third, we have shown the scheduling of a single guest speaker, but it may be useful to bring in more than one guest speaker for short presentations at other points during the semester.

We believe that the course described below provides a very useful capstone IT management course for the IS major. Together with a first course that is computer tools-oriented, we also believe that it can be effectively used as an MIS component for the non-IS undergraduate business major as well. The objective of both courses is to help prepare the undergraduate business major to be an effective user of information technology in his or her career.

Example of Undergraduate Level Course

Undergraduate IT Management Course Outline

This course outline assumes two 75-minute classroom sessions per week, a fifteen-week semester, and several lab sessions, and 3 examinations.

Week	Session	Торіс	Reading Assignment / Case Study Assignment
Week 1	First	Course Introduction; Using Web resources	Web Mini-Assignment given with a focus on resources for learning about the topics in this course
	Second	Managing Information Technology in a Digital World	Chapter 1; Midsouth Chamber of Commerce (A); Web Mini- Assignment Due
Week 2	First	Computer Systems	Chapter 2
	Second	In-Class Lab Session: Advanced Hardware Concepts (How does a supercomputer work?)	
Week 3	First	Computer Systems	H.H. Gregg's Appliances, Inc.: Deciding on a New IT Platform
	Second	Telecommunications and Networking	Chapter 3
Week 4	First	Telecommunications and Networking	Supporting Mobile Health Clinics
	Second	Laboratory Session: Geographic Information Systems (GIS)	GIS Assignment Given
Week 5	First	Telecommunications and Networking	VoIP Adoption at Butler University; Review session
	Second	FIRST EXAMINATION	
Week 6	First	The Data Resource	Chapter 4
	Second	Laboratory Session: Decision Support Systems Using Microsoft Excel	GIS Assignment Due; Decision Support Systems Assignment Given
Week 7	First	Enterprise Systems	Chapter 5; ERP Purchase Decision at Benton Manufacturing, Inc.
	Second	Managerial Support Systems (including several demonstrations)	Chapter 6
Week 8	First	E-Business Systems	Chapter 7; The Cliptomania Web Store
	Second	Laboratory Session: Web Site Analyses	Decision Support Systems Assignment Due
Week 9	First	E-Business Systems	Rock Island Chocolate Company
	Second	Guest Speaker: Leveraging an ERP System	Assignment to prepare for Guest Speaker presentation

Week	Session	Торіс	Reading Assignment / Case Study Assignment
Week 10	First	Laboratory Session: Microsoft Access	Web Site Analyses Due; Access Assignment Given
	Second	SECOND EXAMINATION	
Week 11	First	Basic System Concepts	Chapter 8
	Second	Methodologies for Custom Software Development	Chapter 9; Consumer and Industrial Products, Inc.
Week 12	First	Methodologies for Purchased Software Packages	Chapter 10; Make-or-Buy Decision at Baxter Manufacturing Company
	Second	IT Project Management	Chapter 11; Access Assignment Due
Week 13	First	IT Project Management	NIBCO's "Big Bang"
	Second	Planning the Information Systems Resources	Chapter 12; Clarion School for Boys, Inc.
Week 14	First	Leading the IS Function	Chapter 13; Meridian Hospital Systems: Deciding Which IT Company to Join
	Second	Leading the IS Function	IT Infrastructure Outsourcing at Schaeffer (A) and (B)
Week 15	First	Information Security	Chapter 14
	Second	Social, Ethical, and Legal Issues	Chapter 15; Mary Morrison's Ethical Dilemma; Review session
Week 16		FINAL EXAMINATION	

Additional Course Syllabus Suggestions

The four course outlines presented here in this *Instructor's Manual* represent only four of the many possible ways in which *Managing Information Technology* can be used in an IT management course. For example, in a course with experienced managers (such as an Executive MBA Program), coverage of the early portion of the book (especially Chapters 2 and 3) could be greatly reduced to permit more time and discussion of the content in the later chapters on different types of applications and e-business opportunities. Conversely, an undergraduate course with limited prerequisites might concentrate on the early chapters and reduce further our coverage of the chapters in Part IV. In addition, different sections of Chapter 13, for example, could be covered throughout the course to help students understand the IS management issues for different case study contexts. Note that the section in Chapter 13 that presents some statistics about the IS workforce, including the skillsets needed by client organizations in the U.S. and other developed countries, can be used in conjunction with the case studies shown in the undergraduate weighing the pros and cons of working for an established firm versus a startup.

In our view, the key to a successful IT management course at all levels rests in the frequent use of real-world examples, including Web-based resources, and enhancement activities that go beyond a classroom lecture format. We believe that this particular textbook affords a special opportunity to use the **unique case studies** that have been written by the same textbook authors who have also authored the IS management chapters. In the course outlines we have emphasized case studies for the Master's course and a combination of selected case studies and computer laboratories for the undergraduate course.

However, other enhancement activities also exist, such as films, guest speakers, and technology demonstrations. If your university has an agreement with a major vendor such as SAP or Oracle, aspects of their enterprise systems can be reinforced with demos and lab exercises. We also recommend to instructors the Teradata University initiative in which a vendor is hosting an environment for students to learn more about data warehousing approaches (referred to in the two case studies on business intelligence topics). A core team of IS academics is supporting this initiative by designing exercises to work with secondary data so that students can experience what it means to work with large data sets. One of our coauthors, who also coauthored the business intelligence case at Continental Airlines in this textbook, has played a key role in the Teradata initiative.

The following pages of this manual provide teaching suggestions for each chapter and discussion questions for each case study, as well as objectives and overviews to help you select the content and assignments that best fit your own teaching needs.

Chapter 1 Managing IT in a Digital World

Objectives

Chapter 1 sets the context for studying the management of information technology in an increasingly digital world. The overall objective of this chapter is to motivate the course content. An overall theme of the text is that IT is a strategic enabler and the management of IT is a responsibility of not only IS leaders and IS specialists, but also IT-knowledgeable business managers.

Virtually all of today's students are experienced users of personal computers and handheld communications devices. Many already depend on the Web not only for information, entertainment, and perhaps shopping and online banking, but also social networking as well. Graduate students may also have already had an introduction to IS management concepts in their undergraduate programs as well as, of course, firsthand experiences with information systems designed for organizational settings.

We therefore begin the chapter with recent IT trends in computer hardware, software and networks. This sets the stage for the in-depth discussion of these IT components in the first two chapters of Part I.

The sections that follow are designed to introduce students to the roles of the IS function in organizational settings. We briefly introduce how IT is being used by organizations to lower costs as well as differentiate its product and/or service offerings. IT has also enabled new ways that people work and live, and we introduce the concepts of telecommuting and virtual teams.

Then we introduce students to three broad categories of IT resources that need to be managed in organizations, based on the three IT-asset framework of Ross et al. (1996): the technology infrastructure, the IS human resource, and the business/IT relationship. The relationship asset discussion reinforces the importance of strong working partnerships between business and IT managers—which is a core theme throughout the textbook. We also introduce here the CIO role and provide a generic organization chart to help students begin to understand the scope of the executive leadership role.

This chapter therefore sets the stage for the remainder of the text, which includes 14 subsequent chapters and supplemental case studies organized into four parts:

- Part I of this textbook focuses on fundamental concepts and terminology, as well as IT industry trends, for the basic IT components that IT-savvy business managers will need to be familiar: computer systems (hardware and software), networks, and data.
- Part II provides in-depth descriptions of three different categories of software applications used by today's organizations: enterprise systems, managerial support systems, and e-business systems that leverage the Internet.
- Part III presents methods and techniques for developing and implementing applications and managing IT projects; separate chapters are provided for basic systems concepts, custom-developed systems, purchased package solutions, and managing IT projects.
- Part IV focuses on the strategic planning of IT resources and the range of responsibilities of IS leaders, followed by separate chapters on information security practices and the broader IT-related social, ethical, and legal issues.

Teaching Suggestions

To help students understand how IT capabilities have evolved in recent decades, we have found it useful to ask students to think about how they used IT (for personal, educational, and/or professional activities) several years ago versus how they are using computers and communication networks today. If you have non-traditional undergraduate or master's students, it is possible that they may also remember pre-Internet computing solutions as well as the need to have access to land lines and hard-wired networks for communications. The textbox with "mispredictions" by IT industry leaders sheds light on the difficulties of forecasting the potential impacts of technology innovations.

For graduate-level students, we have also used the *Harvard Business Review* article by N. Carr published almost a decade ago in May 2003, which questions the value provided by IT. Its title ("IT Doesn't Matter") can be used to set up a debate for or against the views of Carr. [Note: The "Letters to the Editor" published in the subsequent *HBR* issue in June 2003 provide some strong alternative arguments.] Our own experience is that if the faculty member does not preempt the debate with his/her own opinions, or emphasize the perceived status of an article published in the *HBR*, the students in the class will indeed be split on the issue. As we go to press, the award-winning, partly fictional, movie on the rise of Facebook (*Social Networking*) also provides a glimpse into Web-based startups today and can also be used to help students understand the dot-com frenzy in the U.S. by the late 1990s.

One approach for motivating the technology chapters (in Part I of the text) is to split the class in half, give everyone some answer cards (e.g., A, B, and C) and then ask multiple choice questions on hardware, software, and network innovations that they may be familiar with as individuals (such as the first Web browser, Smartphones and app stores, broadband options, etc.). All students hold up their own answers, the correct answer is revealed, and those that get the answer right are the team "survivors" for the next question. The team with the most survivors at the end of the game is declared as having the most "digital literacy" or something equivalent.

News stories on IT topics and the IT industry (in print or Web-based) can also be used to help motivate the course content. Students will also be introduced to the idea that they can easily advance their IT knowledge by continuing to read articles written for a general business audience about emerging technologies and IT industry developments not only during this course, but after this course has ended. Keeping up with new IT-related business opportunities is a responsibility of every manager, both business managers and IS managers. News sites for IS managers (such as cio.com) and professional organization Web sites may also be introduced at the first class meeting as useful resources.

It is also important to emphasize how managing IT in organizations (i.e., the role of information systems departments) has become much more complex over the past decade. The description of the 3 types of IT resources can be used to emphasize the importance of not only technology and IS professional resources, but also fostering strong business/IT relationships. Another approach is for students to brainstorm about what is needed to support sales employees and other workers who are "anytime, anywhere," to coordinate workers in widely dispersed buildings, to have the organization's public Web site for sales and service available 24/7 (24 hours a day, 7 days a week), and to keep track of what others are posting about an organization's products or services on social networking sites with millions of users.

The Midsouth Chamber of Commerce (A) case study that immediately follows Chapter 1 sensitizes students to what can happen when a well-meaning business manager is the champion for the purchase of an information system, but there is no formal project team for acquiring and implementing new software that affects multiple functions. Because this case takes place in a very small organization, it is easy for these management issues to be brought out—but this type of management issue is also common in other

organizations. This case can also be used to illustrate the difficulty of managing IT resources without a strong IS leadership role. The Midsouth case can also be used as a common point of reference for subsequent chapters on purchasing software packages (Chapter 10), IT project management (Chapter 11), and IS leadership responsibilities (Chapter 13).

REVIEW QUESTIONS

1. Define what is encompassed in the term *information technology*.

We define **information technology (IT)** as computer technology (hardware and software) for processing and storing information, as well as communications technology (voice and data networks) for transmitting information.

2. What are some of the ways that IT has become "pervasive"?

IT has gone beyond extending communication channels within organizations. We see online stores, Webbased customer service offerings and the like as new offerings to retain competitive advantage. We also see that with the increased ease of access to the information and enhanced communication tools, workers are less constrained with time and location in their productivity. As stated in the text, work teams may never meet face-to-face and regularly use meeting software and video conferencing. Workers may choose a BlackBerry, iPhone, or other Smartphone to access office e-mail "anytime, anywhere." Similarly, virtual teams can be formed from geographically dispersed members, now with commonly used tools for online meetings that also facilitate document sharing.

3. What kinds of portable IT help employees work more efficiently and effectively? What may interfere with productivity?

Portable computers (such as laptops and smart phones) and high speed wireless networks from public transportation, airports, and even from in-flight airplanes keep employees productive.

IT also reduces the barriers to information access as well as information creation. The challenge then becomes accessing the "right" information. Excessive amounts of information available to workers may require them to find the signal in the noise. This can be challenging, and time consuming.

4. What kinds of IT can help support teams when team members work at different locations?

Meeting software and video conferencing can support virtual teams. The most basic kind of IT for supporting virtual teams is communication technology that facilitates the transmission of information among the team members. This may include smart phones with Internet connectivity. Additionally, many organizations provide remote access to important information resources for employees in many locations. [Note: This is made possible by improvements in authentication software and other new security tools.]

5. How have some businesses used the Internet to compete based on low cost, product/service differentiation, or both?

Low Cost: The Internet can increase a company's "reach" to new customers and new suppliers, who may even be on different continents. Example: Airline companies now have a direct channel to consumers and business customers, which means they don't have to pay travel agents or online intermediaries to sell all of their tickets.

Product/Service Differentiation: Example: Amazon was one of the first to develop a different user experience as part of its service offering. Web sites can also be programmed to display screens using a different language and different currency, depending on the user's browser location or selected preferences.

Low Cost and Product/Service differentiation: Airlines and other organizations have offered cheaper pricing for online purchasing, as well as loyalty programs with rewards of different types for online customers. For manufacturing businesses with business customers, lower prices can be offered depending on the customer relationship; some customers may be offered access to the manufacturer's manufacturing quality and inventory data.

6. What kind of a business might choose to have low levels of dependence on IT?

Some organizations may still use IT primarily for back-office support but rely heavily on person-to-person communications to operate their business. Professional service organizations in particular may choose to keep their front-office person-to-person communications, and law and medical professionals may choose to have minimal usage of information technology. [Note: For paper-based physician practices in the U.S., there are federal government incentives (HITECH Act passed in 2009) to become more digitized, including electronic transmission of patient data for referrals and lab tests, etc.]

7. What three types of IT resources need to be managed well?

The textbook emphasizes three resources (based on Ross et al. 1996):

- Technology Infrastructure
- Human Resources
- Business/IT Relationships

8. What are some examples of newer IT manager roles, and why are they needed today?

CSO (Chief Security Officer): To plan for and monitor compliance with new federal laws and reporting requirements and to ensure that appropriate investments are made in technologies and procedures to manage IT security risks.

Middle Manager roles for outsourcing: To help ensure that contracts with key outsourcing suppliers have successful outcomes

9. For what reasons might an IT manager have a reporting relationship with a CIO as well as with a senior business manager?

This dual reporting relationship helps ensure that the IS department's resources are well aligned with the business; it is one approach to establishing and maintaining a strong business/IT relationship.

Discussion Questions

1. Provide an example of how a business function with which you are familiar (e.g., sales, marketing, finance, operations/production, accounting, human resources) utilizes IT for operational and/or strategic purposes.

For example, an international convenience store chain automated its in-store job applications for its HR department. An online system allows the store chain to accept job applications in the stores via kiosks that are connected to the central HR system at headquarters. The applications are then automatically routed to the responsible HR manager to review based on job openings, job descriptions and review rules set forth by the HR department.

2. Describe some ways that you personally use information technologies differently than you did just a few years ago.

A possible student answer: Smart phones and global positioning systems make travel a lot easier in unfamiliar locations. I stopped using printed maps more than a few years ago, and now don't even have to get the directions based on a starting point. Instead, with consumer electronics I can get ad hoc directions to a final destination based on my current location. I also rent all my movies online by either using streaming technology or having the DVDs mailed to me. All my personal documents are stored "in the cloud" so that they are constantly backed up, and more importantly, I can access them with multiple personal devices.

3. Some organizations purposefully select a CIO that has strong business management backgrounds, not just technical experience. Under what organizational circumstances do you think this might be an effective choice?

A CIO with a strong business management background may be a better choice for organizations where IT is beginning to be used for competitive advantage and/or the business is rapidly changing. In organizations less strategically dependent on IT, or competing in the IT industry, a leader with a strong technology background may be preferred. [Note: There are several recent articles on different types of CIO roles and factors that can influence the choice; for example, see two research articles in the March 2011 issue of *MIS Quarterly Executive*.]

4. Describe a new business for which you think a "virtual organization"—which has no physical office or headquarters—could be an effective design. What are some ways that the organization could use IT to help them effectively run their business?

Service organizations are generally the best candidates for being "virtual"—as well as smaller organizations. Video conferencing, desktop sharing and other collaboration tools can be used for synchronous communications. Web based portals with appropriate security and cloud computing options provide access to organizational data.

5. Would you like to work as a free agent? Why or why not?

Working as a free agent in the early stages of one's career is a great opportunity to learn about different organizational contexts and industries. Free agents also have greater flexibility in their choice of location since they are more likely to be telecommuting. However, as one's career develops, job security and concerns about healthcare and other employee "benefits" can take precedence.

6. Using the Internet, identify what is meant by the term *digital divide*. What actions do you think could be taken to lessen this divide—both within your own country and elsewhere in the world?

This term refers to large numbers of "have not's" with no access to computers and modern communications. As the cost of computer hardware has decreased and wireless network access has increased, more people have access to information technologies. However, the technology with the greatest impact on the "digital divide" has been the cellular phone, including those with texting capabilities.

7. Identify some Web sites for publications that could be useful supplementary resources for studying some of the IT topics in this textbook.

http://www.computerworld.com

http://www.cio.com

http://www.itprc.com/publications.htm

http://esj.com

http://www.b2bpublications.com

http://www.business.com/directory/computers_and_software/computer_services/information_technology_ _it_services/reference/publications

http://www.intelligentedu.com/pubs.html

Teaching Note on Case Study 1 Midsouth Chamber of Commerce (A): The Role of the Operating Manager in Information Systems

Objectives

Midsouth Chamber of Commerce (A) is based on an actual situation with only cosmetic changes made to protect the identities of the organization and the individuals involved. This case describes the complex and often chaotic process of implementing information technology change in an organization with conflicting objectives.

The primary objective of this first case in the book is to examine the role of the business manager in the management of information technology in organizations (in this case, the implementation of a new software system).

Secondary objectives of this case include:

- 1. Illustrating some of the possible roles business managers may play in the implementation of information technology.
- 2. Demonstrating some of the pitfalls that a business manager may encounter as technology is introduced.
- 3. Illuminating the role of the technology provider—in this case the software vendor.
- 4. Revealing the importance of information systems (IS) politics.

Overview

The Midsouth Chamber of Commerce (MSCC) was a growing, aggressive, statewide chamber of commerce that had historically benefited from its strong leadership. One example of its leadership was Leon Lassiter, the Vice President of Marketing at the MSCC. Early in his tenure, Lassiter realized that the MSCC needed to acquire new software in order to provide the enhanced sales and marketing support he felt was necessary for his department and the MSCC to be truly successful. As a result, Lassiter became the champion for acquiring a new software system, in particular a system developed by the Unitrak Software Corporation simply called Unitrak. After Lassiter successfully convinced the Executive Committee of the Board of Directors to authorize the purchase, the real problems began for the MSCC.

While Lassiter had been the champion for the purchase of the software system, he was not in charge of computer operations nor was he able to garner cooperation from the main individual who was in charge, Jeff Hedges, the Vice President of Public Finance. Furthermore, the systems analyst, Simon Kovecki, proved to be a weak resource for the Chamber as he was both inexperienced and upset that he was not appointed manager of computer operations when Hedges was given the role of running the MSCC's information technology organization.

With animosity developing throughout the organization, Kovecki, in particular, pulled away from the project and provided very little support in the early stages of Unitrak's installation. Even after he became more involved, the MSCC began to experience additional technical problems that neither Unitrak nor Kovecki could solve. And, while Unitrak did assist in the training, the firm provided very little help during the attempted data migration between the systems. So, by the time Lassiter stepped in to champion the project, he was forced to do so without the support of key players within the MSCC. As this case closed, the old system had been rendered essentially inoperative after Kovecki's failed attempt at migrating the data to the new system. As a result, the MSCC was left with no computer support for its operations, and the organization needed solutions quickly to prevent additional operations from stalling.

Questions for Discussion

1. Identify the key players in the case and describe their respective roles. Are these the right roles? What roles in particular should be modified? How might such role modifications be accomplished?

Key Players and Roles

- Leon Lassiter—Vice President of Marketing of the MSCC. Lassiter was a high-ranking business manager, with no information technology background, who recognized the need for a new software system at the MSCC and acted as its champion during the acquisition (and eventually the implementation) process. In his short tenure, Lassiter had proven to be a very strong marketing manager for the MSCC, but he was nevertheless unsuccessful in getting more appropriately positioned people involved in the implementation of the new software system. This forced Lassiter to serve as the champion of the project throughout the entire process—a role that he was unqualified to perform.
- Jeff Hedges—Vice President of Public Finance of the MSCC. Hedges was the leader of the MSCC's tiny computer operations section. Given the bulk of tasks he had before him, Hedges was not significantly involved in the new system's implementation. Generally speaking, Hedges appeared to look at his computer responsibilities at the MSCC as a secondary duty—a fear that Kovecki had when Hedges was named to this position.
- Simon Kovecki—Systems Analyst at the MSCC. Kovecki—a young computer science graduate with no experience in a membership organization or with administrative software— was the only IS professional inside the MSCC. Kovecki spent his first three months at the MSCC learning not only the organization but also the computing systems—without the benefit of any systems documentation. Nevertheless, Kovecki was able to have the old system running reliably. His cursory involvement during the early stages of the new system implementation process, though, got Lassiter's project off to a slow start. His lack of involvement was due to two issues—(1) Kovecki not receiving the responsibility for leading the MSCC's computer operations, and (2) Kovecki's distaste for the features of the software package chosen. Unfortunately, once Kovecki finally did become involved in the project, he was unable to make the new system operational.
- Ed Wilson—Vice President of Public Affairs and Operations of the MSCC. Before his reassignment, Wilson had been in charge of computer operations and had actually introduced the MSCC to the world of microcomputers and database management. While Wilson and Lassiter did not have a strong relationship at first, eventually the relationship became amicable, and Wilson provided Lassiter with some support during the Unitrak acquisition process. Overall, however, that was the extent of Wilson's involvement in this process.
- Jack Wallingford—President of the MSCC. While Wallingford was the President of the MSCC, his involvement in this decision and the system implementation was negligible.
- **Executive Committee of the MSCC.** While this group made the ultimate decision to purchase the Unitrak software, they did not appear to have followed up on this purchase during the

implementation process. Additionally, their decision to support the Unitrak system may have been too quick and based too much on Lassiter's input instead of the due diligence one would expect from this group.

• Greg Ginder—President of Unitrak Software Corporation. Ginder made considerable concessions in order to sell his company's software to the MSCC including unlimited support during the system installation. Nevertheless, when the MSCC needed Unitrak the most—during the system migration and conversion process—Unitrak's support was missing or ineffective.

Role Modification

Clearly several of the roles discussed above should have been modified. Neither Hedges nor Kovecki—the two most important IS players at the MSCC—were meeting their job responsibilities, and Lassiter proved inept at gaining their cooperation or improving their effort level. At the same time, Wallingford and the Executive Committee should not have remained aloof in the face of the crisis that was upon the MSCC and could have played a larger role in getting Hedges and Kovecki's attention. Furthermore, while Ginder did provide some support for the MSCC, it was not at the level or in the amount that a reputable software vendor should provide.

How to implement these role modifications is a more difficult question. Hedges or Kovecki may not have had the expertise to perform their job descriptions and may have simply needed to be replaced. Generally, however, Lassiter did a poor job of playing IS politics and may have been able to avoid this entire situation by doing a better job with IS politics. As an example, as mentioned above, Lassiter could have gone to Wallingford to request help in garnering the support of Hedges and Kovecki. Furthermore, depending upon the software contract, Ginder's support might have been more forthcoming during the critical stages of implementation had legal action been threatened.

2. Focus on the role of the software vendor—Unitrak Software Corporation. Was it an appropriate role? Did Unitrak act responsibly?

This question was partially answered in question 1 above. Unitrak certainly did not act responsibly during this entire scenario. Whether Unitrak was legally at fault depends upon the terms of the software contract, which were not presented in the case. It is reasonable to assume, however, that such a contract would have included specific assurances for Unitrak to meet that would include an operational system—something the MSCC did not have when this case closed. One would hope that Ginder's promise to provide "unlimited support at no charge to install the system" would have been in that list of assurances. If so, Unitrak would have opened itself up to legal action.

Furthermore, when the MSCC was at a critical phase—the data migration step—Unitrak was "missing in action." For a company that had a stated goal of penetrating the chamber of commerce market, this act appears to be working against its own interests. While neglecting any customer is a sign of concern, neglecting a key component for a company's business growth and development is that much more inexcusable.

3. How much is Kovecki to blame for this situation?

While most students tend to put much of the blame on Lassiter, Kovecki is also a key component to this problem. Clearly company politics played some role, but Kovecki failed to perform some of the basic pieces of his own job description by, as one example, failing to provide support in the early stages of this process. From a technical standpoint, too, one would never migrate data on a

system without first performing a system backup—a move that Kovecki failed to make. This failure has to make one question whether Kovecki's technical skills were as strong as they may have at first appeared. When coupled with the high likelihood that the software had a serious internal problem, however, Kovecki was in a no-win situation by the time the data migration occurred. One could argue, however, that he had placed himself in that position by failing to be more involved in the process from the beginning.

Nevertheless, politics played a significant role in this scenario, as Lassiter and Kovecki needed to work closely during this process and that was not possible due to the animosity that had built up between them and between Kovecki and the organization—because he had been passed over for a position that he was clearly more qualified to perform than the person given the job. As Kovecki pulled away from his position and the MSCC, the organization's IS began to fall apart.

4. One of the recurring themes of this book is the importance of information systems politics. To what extent does IS politics explain the situation that has developed at the Midsouth Chamber of Commerce?

IS politics helps explain much of the MSCC's situation. The new system was Lassiter's idea, and he was unable to "sell" the system to either Hedges or Kovecki, the two people who were critical to the system's ultimate success. As such, Lassiter went over these individuals' heads, and the system became Lassiter's system, not their system, or even the MSCC's system.

Furthermore, when Lassiter initially proposed the new system to the Executive Committee, it was pushed through, but likely as the result of respect for Lassiter rather than because of reasonable due diligence. After the project did not make progress for a few weeks, Lassiter began to ask questions. Hedges then told him to simply push the project through himself because it was "his project." As he did so, several staff members expressed concern that they had not been consulted or informed of the idea before its approval. And as a result, with no one having ownership of the system and no buy-in from any of the other executives in the MSCC, the animosity level rose and the excitement about the new system was drowned out by it.

5. The case involves what appears to be a fairly routine use of information technology to support a service organization. Yet the Midsouth Chamber of Commerce encountered major problems in bringing up its new system. Is there a lesson here for organizations seeking to adopt new information technology? What is it?

What appears to be a routine application of information technology to an organization with an experienced, knowledgeable IS staff may be anything but routine to an organization lacking IS skills in its business managers. Certainly there is no way that the MSCC could have successfully adopted truly new information technology with its current level of interal IS knowledge and its apparent unwillingness to find that knowledge outside the company. By placing control of the information technology with someone who had little information technology background and was managing the process "on the side," the MSCC lessened the opportunity for its information technology to provide a competitive advantage for this organization.

Therefore, the lesson to be learned from this case is that organizations should honestly and carefully consider whether they have a sufficient level of expertise before attempting to adopt new technology. Furthermore, an organization must have "buy-in" from all its executives before making such a purchase. Even if a system works perfectly from a technical perspective, it will never reach its potential if management is not advocating its use throughout the organization.

6. What should Lassiter do now?

Lassiter must immediately focus on making the conversion process work. With both the new and the old systems down, Lassiter has two choices: outsource the MSCC's IT needs to an outside vendor or create an ad hoc paper system in the interim. A paper system is likely not going to work for long. At the same time, it will take Kovecki (or his replacement if fired) time to get the system up and running without help or viable documentation. As a result, Lassiter must also look outside the company to find Kovecki some additional help—perhaps from another company that uses and/or has had some experience with the Unitrak system.

Finally, Lassiter needs to pull the entire management team together, explain the situation, and reintegrate them by inquiring about suggestions on how to proceed. He also needs to ask them to inform their staff of the situation and the steps being taken to correct the situation. By doing this the staff might become less disgruntled with the system's inoperativity in the short term.

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Case Study 1—Midsouth Chamber of Commerce (A)