Course Management Systems for Learning:
Beyond Accidental Pedagogy

Patricia McGee
The University of Texas at San Antonio, USA

Colleen Carmean
Arizona State University, USA

Ali Jafari
Indiana University-Purdue University Indianapolis (IUPUI), USA

Information Science Publishing
Hershey • London • Melbourne • Singapore

Course Management Systems for Learning:
Beyond Accidental Pedagogy

Table of Contents

Foreword vii
Carole A. Barone, EDUCAUSE, USA

Preface ix
Patricia McGee, The University of Texas at San Antonio, USA
Colleen Carmean, Arizona State University, USA
Ali Jafari, Indiana University-Purdue University Indianapolis (IUPUI), USA

SECTION I: HISTORY, PRACTICES, AND DESIGN OF CURRENT CMS

Chapter I. Measure for Measure: Assessing Course Management Systems 1
Colleen Carmean, Arizona State University, USA
Gary Brown, Washington State University, USA

Chapter II. Standards? What and Why? 14
Phil Long, Information Services and Technology, USA
Frank Tansey, Technology Consultant, USA

Chapter III. Libraries, Information, and Course Management Systems 39
Joan K. Lippincott, Coalition for Networked Information, USA

Chapter IV. The Interplay of Teaching Conceptions and Course Management System Design: Research Implications and Creative Innovations for Future Designs **57**
Xornam S. Apedoe, The University of Georgia, USA

Chapter V. Frameworks for CMS Design and Evaluation **69**
Marwin Britto, Central Washington University, USA

Chapter VI. The CMS as Shapeshifter, Catalyst, and Engaging Learning Tool **90**
Cyprien Lomas, The University of British Columbia, Vancouver, Canada
Ulrich Rauch, The University of British Columbia, Vancouver, Canada

Chapter VII. Learner Engagement and Success in CMS Environments **107**
Bob Bender, University of Missouri-Columbia, USA

Chapter VIII. CMS Implementation as a Catalyst for Curricular Change **114**
Lynne O'Brien, Duke University, USA
Amy Campbell, Duke University, USA
Samantha Earp, Duke University, USA

Chapter IX. NGCMS: Exploring and Supporting Effective Faculty Use **131**
Youmei Liu, University of Houston, USA

Section II: Research Implications and Creative Innovations for Future Design of CMS

Chapter X. Over the Rainbow: Waking up in Tomorrow's OZ **147**
Patricia McGee, The University of Texas at San Antonio, USA
Vicki Suter, iCohere, USA
Jennifer Gurrie, WebCT, USA

Chapter XI. Pushing the Envelope: Designing Authentic Learning Activities Using Course Management Systems 171
Nada Dabbagh, George Mason University, USA

Chapter XII. From Course Management to Curricular Capabilities: A Capabilities Approach for the Next-Generation CMS 190
Van Weigel, Eastern University, USA

Chapter XIII. The Missing Link to Enhanced Course Management Systems: Adopting Learning Content Management Systems in the Educational Sphere 206
Steven Shaw, Concordia University, Montreal, Canada
Vivek Venkatesh, Concordia University, Montreal, Canada

Chapter XIV. Virtual Classroom Facilities Embedded in a Course Management System 232
Jesko Kaltenbaek, Freie University of Berlin, Germany

Chapter XV. The Use of Database-Driven Web Pages to Increase the Functionality of Current Online Learning Technology 246
Richard Caladine, University of Wollongong, Australia

Chapter XVI. CMS Portfolios for Learning and Evaluation 261
Jon Lanestedt, University of Oslo, Norway
Mona Stokke, University of Oslo, Norway

Chapter XVII. Putting Course Management Systems Behind Us 282
Robby Robson, Eduworks Corporation, USA

SECTION III: NEXT-GENERATION CMS

Chapter XVIII. Course Management Systems for Learning: Future Designs 296
Barbara Ross, WebCT, USA

Chapter XIX. Future Directions of Course Management Systems 307
David Mills, ANGEL™ Learning, Inc., USA

Chapter XX. From Course Management Systems to Open Frameworks and a Sustainable Ecology of Educational Systems 331
Vijay Kumar, Massachusetts Institute of Technology, USA
Jeff Merriman, Massachusetts Institute of Technology, USA

Chapter XXI. Conceptualizing a New CMS Design 344
Ali Jafari, Indiana University-Purdue University Indianapolis (IUPUI), USA

Chapter XXII. Next Generation: Speculations in New Technologies 359
Bryan Alexander, Middlebury College, USA

Glossary of Terms 374

About the Authors 387

Index 397