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Information Technology Management Bachelor of Science Degree (B.S.)

Course Requirements

MAJOR COURSES

	Qtr. hrs. credit
ITM100 Introduction to Information Technology	4
Explores fundamental technical issues pertaining to computers and information technology. Introduces hardware and software components of an information system, their mutual relationship, dependency, and historical evolution.	
ITM200 Introduction to Networking	4
Introduces underlying concepts of data communications, telecommunications, and networking. Emphasizes terminology and technologies in networking environments, and provides a general overview of the field of networking.	
ITM210 Introduction to Database Management	4
Provides an overview of the skills and knowledge necessary for the development and management of relational database systems. Topics include database creation, modeling structures, physical and logical components, accessing techniques, and SQL. Concepts are explored through the use of MS Access.	
ITM220 Introduction to Web Design and Graphics	4
Introduces students to concepts of website structure, basic web page layout using text and multimedia, content management, and user experience. Essentials of conceptual design of web pages and basic Internet topics are explored.	
ITM230 Fundamentals of Object Oriented Programming	4
Provides an introduction to the principles of computer programming using a current programming language, such as Visual Basic, .NET, C++, or Java. Intended to be a beginning programming course, focusing on basic principles of object-oriented design.	
ITM240 Information Systems Analysis and Design	4
Covers the analysis, planning, and development of information systems. Explores the different phases and related activities of the system development life cycle, and how system components should be implemented in solving business problems.	
ITM250 Information Technology and Law	4
Explores legal and ethical issues that pertain to information technology management, such as digital property rights, data protection, identity protection, individual privacy, and systems integrity.	
ITM498 Capstone: Senior Project	6

Integrates the course work in the student's major to assist in learning the process and challenges of implementing a

professional information technology project. Students will follow a structured project design process to plan, complete, document, and present their senior project. Students from different tracks meet in groups to implement a business plan. Upon completion of this course, the entire project will serve as part of each student's professional portfolio.

Prerequisite: Departmental approval

Information Technology Electives* 20

BUSINESS COURSES

BUS100 Business Organization and Management 4

Explores the nature and scope of business, examines its component parts, and describes how businesses are organized and managed. Students will learn about the various internal and external forces that comprise our business and economic system.

BUS226 Career Management Seminar 2

Explores career development opportunities and strategies. Stresses entry-level job requirements and upward career paths. Covers resume writing skills, interviewing techniques, and the importance of professionalism. Continues the student's orientation to Berkeley College's computer framework, which includes content collection and compiling a professional ePortfolio.

BUS267 Management Information Systems 4

Course examines the technical, economic, and organizational impact of complex interdependent work systems. Topics include the analysis of short- and long-term information needs and the communication of these needs to technical specialists and higher management.

Prerequisite: BUS100

BUS281 Project Management 4

Provides an overview of various project management knowledge areas. Topics include project integration, scope, quality, human resources, communications, risk, and procurement management. Students will use Microsoft Project software.

Prerequisite: BUS100

BUS483 Internship 4

Allows students to work in a position related to their course of study. Students integrate the skills and knowledge learned through their academic experiences and participate in focused online discussions and special online projects.

Prerequisites: BUS226 and departmental approval

CIS115 Computer Applications 4

An introduction to computer technology with an emphasis on applications. Students learn how to use software packages, such as Microsoft Windows, Word, PowerPoint, and Excel. Includes an orientation to Berkeley College's computer framework, which includes Blackboard, content collection, and portfolio development.

MGT220 Principles of Management 4

Examines operational theories of management under the functions of planning, organizing, staffing, directing, and

controlling. Emphasizes the manager's role in creating and maintaining an internal environment for performance. Students discuss cases in detail.

Prerequisite: BUS100 or prior approval

MGT420 Managing for Change 4

Integrates the concepts and techniques involved in implementing and managing a planned change process. Includes discussions and case studies on changing the way work is done, changing communication and influence patterns, and changing managerial strategy.

Prerequisite: MGT220

MKT220 Principles of Marketing 4

Provides an introduction to the fundamental principles and practices in the marketing process. Provides a detailed study of each marketing mix tool (product, price, place, promotion) **along with an introduction to marketing research and consumer behavior.**

LIBERAL ARTS COURSES**
ENG105 Expository Writing 4

An introduction to expository writing through a comprehensive survey of forms of composition. Students are taught to use words with precision, and strengthen their understanding and application of grammatical and rhetorical principles. Students are encouraged to appreciate and incorporate the principles of academic and professional writing.

ENG106 Writing Through Literature 4

Strengthens the writing, reading, and interpretive abilities introduced in ENG105. Encourages students to develop an appreciation and understanding of various works of literature, and utilize literature to enhance critical thinking and writing.

Prerequisite: ENG105

ENG115 Public Speaking 4

Designed to help students improve oral communication skills. Emphasis is placed on identifying good and poor speech habits, techniques for improving speech, oral interpretation, effective speech planning and delivery, and interpersonal communication.

Prerequisite: ENG106

ENG315 Writing for the Workplace 4

Explores a wide variety of professional and creative writing modes, from personal profiles to blogging and beyond. Students will build their reading, writing, and researching skills, while reinforcing the fundamental concepts and current developments associated with the areas of their respective majors.

Prerequisite: ENG106

GEC123 Introduction to Applied Psychology 4

A required course for first-quarter students that examines basic psychological concepts which can be helpful in adjusting to the college experience. Some of the subtopics covered include stress management, academic challenges,

communication skills, time management, healthy relationships, positive thinking, conflict management, and balancing home/college/work.

HUM225 Introduction to Ethics 4

Introduction to the study of ethics and moral philosophy, including its historical development, the major figures within that history, and some of the ethical and moral issues that face us today. Introduces students to the ideas of great thinkers throughout history and encourages students' own thinking on various ethical and moral issues.

HUM238 Humanities in the Media 4

An introduction to the various methods and technologies afforded by diverse media (print, film, video, sound, digital, and cybernetics) to access and evaluate a range of cultural phenomena (literature, film, visual arts, performance arts, nonfiction) more traditionally studied in print.

Prerequisite: ENG106

MAT211 College Algebra 4

Introduces students to solving problems by using geometric and algebraic approaches and appropriate technology. Topics include the Cartesian coordinate system, linear equations, absolute value, rational and exponential functions, systems of linear equations, and linear inequalities.

Prerequisite: CSK099 or placement

MAT212 Mathematics with Business Applications 4

Introduces students to the personal use of mathematics and the applications for various business disciplines including accounting, fashion marketing and management, financial services, and marketing. Explores the business applications of linear functions, quadratics functions, and systems of linear equations. Emphasis will be placed on the use of Excel to solve real-world business problems.

Prerequisite: CSK099 or placement

MAT215 Statistics I 4

An introduction to statistical methods and procedures. Students become acquainted with the collection, analysis, and presentation of quantitative data. Topics include basic concepts of probability, frequency distributions, binomial distributions, sampling theory, hypothesis testing, and regression and correlation.

Prerequisite: MAT211

MAT301 Discrete Mathematics 4

Explores mathematical concepts most directly related to information technology management and/or computer science related fields. Topics covered include logic, relations, functions, basic set theory, graph theory, combinatorics, recursive functions, and Boolean algebra and its applications.

Prerequisite: MAT211

SCI 410 Sustainable Solutions 4

Incorporates the interconnected concepts of ecology, economy, and ethics to real, practical, workable, sustainable solutions. A portfolio and presentation on designing a sustainable community, life plan, or business plan with

sustainable alternatives are completed.

SCI451 Science, Technology, and Modern Life 4

In this course students study some of the ways that our social lives, our health, and our professional lives have been affected by recent advances in science and technology.

SOC310 Intercultural Communication 4

An introduction to the various cultural influences on communication. Emphasizes the obstacles and portals to effective communication. Students study the communication styles of different cultural groups, and learn to apply cultural perspectives to their daily interactions in business and in their lives.

SOC415 Global Social Change 4

Explores global trends that have impacted all societies. Emphasizes developing nations experiencing extensive technological and social change. Students examine case studies which focus on ethnic separatist and religious fundamentalist movements that emerge as rapid modernization processes erode traditional belief systems.

Humanities Elective 4

Social Science Electives 8

Liberal Arts Electives 16

General Education Core Humanities Elective 4

180 QUARTER CREDIT HOURS REQUIRED FOR GRADUATION

In the final quarter most on-site courses are offered only during the late afternoon and early evening so as not to interfere with internships.

*20 Information Technology elective credits must be at the 300/400 level.

**24 Liberal Arts credits must be at the 300/400 level.

SAMPLE PROGRAM SEQUENCE

- 1 **B.S., Information Technology Management New Jersey Program Statistics**
- 1 **B.S., Information Technology Management New York Program Statistics**