

Department of Information Management

4 -Year College: Year 1

Required Courses

Course Code	Course	Credits /Hours
461062	Basic Computer Concept	3/3
461111	Calculus	3/3
461150	Statistics	3/3
461441	Economics	3/3
461442	Management	3/3
461500	Accounting	1.5/2
461611	Programming 1	3/3
461612	Programming 2	3/3
461751	Service Learning	1/2

Optional Courses

Course Code	Course	Credits /Hours
461156	Introduction to Probability Theory	3/3
461616	Extensible Markup Language(Xml)	3/3
461745	Marketing Management	3/3
461776	Web Application System and Development	3/3

Course Descriptions

461062 Basic Computer Concept

This course teaches basic IT knowledge including a computer's operating principles, basic concept of hardware and software, popular applications, networks and the Internet, information security, the application of data systems in business, such as electronic commerce, and other popular topics.

461111 Calculus

The aim of this course is to help students form fundamental concepts of calculus to train computation and logic skills and applying them to actual problems. Students will gain the fundamental related tools needed to be successful in future majors.

461150 Statistics

The aim of this course is to help students understand the basic concepts of statistics, to understand and assess statistical data provided in the media while also using statistical methods to collect reliable data, to organize and analyze, and to solve actual problems.

461441 Economics

The aim of this course is to convey basic economic theory and analytical methods. Coupled with actual cases, this course aims to develop in students the ability for economic analysis for use in daily life.

461442 Management

This course teaches students the fundamental knowledge and theories of management and delves into business organizations and the global economy to develop students who can become management personnel with global perspectives.

461500 Accounting

The aim of this course is to teach basic accounting principles, introduce the basic concepts and skills of accounting with an emphasis on bookkeeping and entries so that students can consolidate, explain, analyze, and solve basic accounting problems to provide policy makers with information to make correct judgment while helping them understand the accounting industry and market

development.

461611 Programming 1

This course familiarizes students with the Java programming language and the concept of object orientation.

461612 Programming 2

This course familiarizes students with Java program design and guides students in taking the SCJP certification exam.

461751 Service Learning

This course supports students to participate in meaningful community service to understand the concept of service education and to learn from their experiences to broaden educational horizons and life experiences.

461156 Introduction to Probability Theory

This course lets students establish basic concepts in probability theory to understand various probability distributions.

461616 Extensible Markup Language(XML)

This course introduces the background of XML's technical development to understand the differences of XML and HTML and future trends, creation of XML files and their application.

461745 Marketing Management

This course establishes a basic understanding of marketing theory and through case studies, allows for swift integration in practical operations

461776 Web Application System and Development

The aim of this course is to train students to build websites and webpages. Websites will be built with Tomcat or Google Appengine. Webpages will be built with Dreamweaver CS5 with MySQL database to complete an interactive page.

Department of Information Management

4-Year College: Year 2

Required Courses

Course Code	Course	Credits /Hours
462122	Managerial Mathematics	3/3
462629	Object-Oriented System Analysis and Design	3/3
462631	Data Structures	3/3
462708	Information Network	3/3
462736	Management Information Systems	3/3
462744	Production and Operations Management	3/3
462748	Financial Management	3/3
462835	Database Management	3/3
462854	Electronic Commerce and Internet Marketing	3/3

Optional Courses

Course Code	Course	Credits /Hours
462155	Applied Statistics	3/3
462613	Programming 3	3/3
462653	Discrete Mathematics	3/3
462657	Algorithms	3/3
462755	Multimedia Design	3/3
462836	Practicum in Database Management System	3/3

Course Descriptions

462122 Managerial Mathematics

This courses studies information management-related methods to allow students to solve problems in business management through quantitative methods.

462629 Object-Oriented System Analysis and Design

This is a course in systems analysis and design with an emphasis on object-oriented skills and their usage. Upon completion of this course students will understand how to apply UML 2.0 and UP in systems analysis and design for use in topic creation and systems development tasks. This course uses Visual Paradigm as a practice tool.

462631 Data Structures

The goal of this course is to teach students to write programs more effectively while they use a good data structure or algorithm.

462708 Information Network

This course seeks to understand Internet communications models, the concept of connection methods between network equipment, and the concept and operation methods of TCP/IP.

462736 Management Information Systems

This course helps students understand how to achieve exceptional operations with information systems to develop new products and services or improve policy decisions to increase competitive advantages.

462744 Production and Operations Management

This course describes the principles and concepts of manufacturing management to help students understand that these principles and concepts can be applied to their professional field and personal life as a practical science.

462748 Financial Management

This course explores how companies can invest, raise capital and make capital investment decisions to determine future profit or sustainable development, while also understanding that investment is a required professional skill for managers. For the individual, financial planning is a required knowledge and skill of modern society.

462835 Database Management

This course emphasizes the database design and implementation skills by exploring these topics coupled with practical situations. Students will develop and build databases in practical scenarios and hands-on experience.

462854 Electronic Commerce and Internet Marketing

The aim of this course is to introduce an overview of e-commerce, current development, and explain Web marketing plans, operation models, and discuss the 4Ps of Web marketing methods and Web marketing trends.

462155 Applied Statistics

The aim of this course is to convey fundamental knowledge to help students gain statistics-related concepts to further study statistical analysis. The course emphasizes basic concepts and theories with related examples to help students understand the meaning behind the statistics.

462613 Programming 3

This course guides students in object-oriented program design skills along with the controlled use of graphics and multimedia control database integrated applications.

462653 Discrete Mathematics

This course is the fundamental mathematics course for training computer scientists. Students should learn a particular set of mathematical facts and how to apply them; but more importantly, it should teach students how to think mathematically. Five important themes are interwoven in the course : mathematical reasoning, combinatorial analysis, discrete structures, Turing achine, applications/modeling, and algorithmic thinking.

462657 Algorithms

This course helps students understand the basic types of algorithms and discusses various themes, from the complication analysis of algorithms to computation complication.

462755 Multimedia Design

This course introduces multimedia knowledge and production processes, including multimedia development design and multimedia tools. Also, through the use of multimedia tools, students will be separated into groups to create a multimedia project to experience the difficulties and solve problems of multimedia production.

462836 Practicum in Database Management Systems

The aim of this course is to help students understand the implementation of relational database management systems. The course has chosen Microsoft SQL Server 2008 as standard, introducing design implementation and operations of SQL Server 2008. As the hours of this course are limited, the course will focus on programming and be supplemented by administrating.

462853 Mobile Commerce

This course introduces the overall concept of mobile commerce to help students understand the latest technology in mobile commerce. Through case studies, students will understand the operations model and marketing strategy of mobile commerce to spur innovative applied thinking to mobile commerce.

Department of Information Management

4 -Year College: Year 3

Required Courses

Course Code	Course	Credits /Hours
463240	English Proficiency Test	1/2
463330	Organizational Behavior	3/3
463643	Operation Systems	3/3
463652	Operations Research	3/3
463662	Software Engineering	3/3
463763	Computer Security	3/3
463781	Information Management in Practice 1	2/3
463782	Information Management in Practice 2	2/3

Optional Courses

Course Code	Course	Credits /Hours
463638	Data Mining	3/3
463645	Unix	3/3
463647	The Linux System Administrator Guide	3/3
463715	Knowledge Management	3/3
463717	Electronic Learning	3/3
463745	Project Management	3/3
463790	Case Studies in MIS	3/3
463857	International Certification Management 1	3/3

Course Descriptions

463240 English Proficiency Test

To develop students' listening sub-skills; to develop students' reading sub-skills; to develop students' exam taking techniques and strategies; to help students revise important grammar structures and functions tested in the TOEIC; to familiarize students with the format and timing of the TOEIC test.

463330 Organizational Behavior

Organizational behavior is an integrated science which explores employee behavior at the three major levels of the individual, groups, and organizations. The aim of this course is to understand the importance of organizational behavior and the meaning of management practices to understand the core concepts, theories, and research results of organizational behavior to be used in the application of systematic information in management practices.

463643 Operation Systems

This course helps students understand the nature of operating systems, including schedule syncing, dead end problems, virtual memory management and file system structures.

463652 Operations Research

This course aims to teach students to use quantitative methods to solve various probability and non-probability based policy problems in the field of engineering and management. Students will be introduced to methods of defining the problem, analysis model establishment, and solutions to develop analysis and problem-solving skills. The course will be supplemented by actual case studies and exercises.

463662 Software Engineering

This course uses theory and practical training spanning many technical fields such as: project management, software engineering procedure and method, objected oriented skills, software restructuring for re-use, reverse engineering, design models, and more to help students understand that software engineering is the fundamental systematic method for developing large software systems.

463763 Computer Security

This course aims to help students understand security measures of computer systems, user identification techniques, privacy of data and complete protection with internet communications security mechanisms to give students a better understanding of ways to address computer crimes and prevent computer viruses. The goal of this course is to develop complete security concepts of information and Web safety and the ability to establish a secure information system.

463781 Information Management in Practice 1

This course aims to help students gain practical experience in the development, design, and manufacturing procedure to use current knowledge and gain a better understanding of information systems. Students are expected to develop skills to detect, face, and solve problems and learn good communication skills.

463782 Information Management in Practice 2

This course aims to help students gain practical experience in the development, design, and manufacturing procedure to use current knowledge and gain a better understanding of information systems. Students are expected to develop skills to detect, face, and solve problems and learn good communication skills.

463638 Data Mining

This course introduces the usage of data mining skills to support the analysis and discovery of useful information in massive amounts of data to produce information that is useful or adds value by increasing the viability of information.

463645 Unix

This course explores the management and maintenance of Unix systems, from installing Linux systems to start up and the setting of various services and safety mechanisms. Through hands-on control and exploration of related skills, students will develop their server systems administration skills.

463647 The Linux System Administrator Guide

This course explores how to swiftly solve Linux problems through UNIX/Linux systems management mechanisms.

463715 Knowledge Management

The course defines knowledge goals, the development of knowledge, knowledge sharing, and knowledge assessment to help students understand the knowledge worker, how to effectively manage knowledge jobs, and how to use skill and technology as effective tools to increase knowledge jobs.

463717 Electronic Learning

This goal of this course is to help students implement e-learning concepts, entry method, and theory extension to digital learning and the internet.

463745 Project Management

In addition to the established management perspective, it will be explained with the structure of the product life cycle from the beginning of the project, project execution, to project termination. Students will gain a deeper understanding of project management for use in their future careers.

463790 Case Studies in MIS

This course combines fundamental theories and practical application to help students understand the application of information management in the electronification of businesses and the mobilization of innovative business models through business information management.

463857 International Certification Management 1

The aim of this course is to help students understand Web-related tasks and passing the Information Technology Expert Certification test. Students in the course can apply for the four major topics of certification: "Network Connectivity Basics", "LAN network", "Network Security", and "Web Services and Application".

Department of Information Management

4 -Year College: Year 4

Required Courses

Course Code	Course	Credits /Hours
464765	Human Resource Management	3/3
464781	Information Management in Practice 3	2/3
464787	Seminar on MIS	1/2

Optional Courses

Course Code	Course	Credits /Hours
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464656	Cryptology	3/3
464710	Artificial Intelligence	3/3
464716	Enterprise Resource Planning	3/3
464724	Consumer Behavior	3/3
464726	Customer Relation Management	3/3
464759	EC Operations and Management in Practice	3/3
464912	Leadership Management	3/3
464913	Strategic Management	3/3

Course Descriptions

464765 Human Resource Management

This is a practical course focused on the theoretical fundamentals of organizational behavior to explore effective human resource management theories, practical design, and general implementation. Therefore, the goal of this course is to: understand the importance of human resource management and its meaning to management practices, understand the core concepts of human resource management, theory, and research results. Systematic knowledge of human resource management will be used in management practices.

464781 Information Management in Practice 3

This course aims to help students gain practical experience in the development, design, and manufacturing procedure to use current knowledge and gain a better understanding of information systems. Students are expected to develop skills to detect, face, and solve problems and learn good communication skills.

464787 Seminar on MIS

This course will invite elite industry and/or academic professionals to speak and convey to students experiences in combining the theoretical and the practical.

464656 Cryptology

This course teaches number theory and cryptology for use in information and network security.

464710 Artificial Intelligence

This course helps students understand how computers can achieve the intelligent behavior of humans and the exploration of other artificial intelligence related principles. Students will gain a basic understanding of artificial intelligence to build upon in the future.

464716 Enterprise Resource Planning

This course gives students the knowledge of manufacturing transformation procedures in business and hands-on experience of operating ERP information systems. This course uses ERP software (Pro-Young Software) and emphasizes manufacturing models, including capacity, MRP, establishing bill of materials, aggregate planning, inventory control, and batch cost/step cost.

464724 Consumer Behavior

This course is designed to give students basic knowledge of consumer behavior and through group reports, guide students to apply consumer behavior related theories to analyze business situations to increase problem solving abilities. Aside from developing professional skills, students will be trained to work in teams and to learn to communicate well.

464726 Customer Relation Management

This course covers customer value, operational management, function interface, implementation tricks, and IT techniques for five major topics. The course will systematically introduce each, and through the use of case

studies, increase student ability to help students achieve the professional certification of "Customer Relations Manager".

464759 EC Operations and Management in Practice

This course focuses on existing e-commerce management and technique to understand the application of Web commerce sites. Through existing Web applications, technology, and management methods, students will understand the development of Web commerce sites and develop the ability to manage them. After this course, students will be able to integrate information application concepts to support them in managing multi-faceted information technology.

464912 Leadership Management

This course aims to introduce leadership management concepts to combine theory and practical application and to explore the leadership of mid to high level managers.

464913 Strategic Management

This course helps student establish operation models and unique competitive advantages through the perspective of the highest level management of a business in a competitive environment. As such, the final goal of the course is to help students establish clear strategic thinking structures to improve strategic management abilities and to be able to design appropriate strategic management analysis tools.

Department of Information Systems Management

5-Year Junior College: Years 4, 5

Required Courses

Course Code	Course	Credits /Hours
564631	Data Structures	2/2
564632	Database Management Systems	2/2
564641	System Programming	3/3
564643	Operation Systems	1.5/2
564746	Marketing Information Systems	2/3
564781	Case Study 1	3/4
564782	Case Study 2	3/4
565121	Linear Algebra	2/3
565645	Introduction to Unix System	2/4
565732	Case Studies in MIS	1.5/2
565783	Case Study 3	3/4
565851	Electronic Commerce	2/2

Optional Courses

Course Code	Course	Credits /Hours
564153	Advanced Statistics	2/3
564716	Enterprise Resource Planning	1.5/2
564717	Electronic Learning	2/2
564772	Integration of Multimedia	2/2
564773	Animation and Digital Video Systems	2/2
564853	Mobile Commerce	2/2
565250	Japanese	2/2
565365	Communication Skills	2/2
565371	Psychology	2/2
565661	Introduction to Software Engineering	1.5/2
565680	Introduction to Object-Oriented Technology	2/2
565703	Business Data Communications	2/3
565705	Management of Enterprise Network 1	2/3
565706	Management of Enterprise Network 2	2/3
565711	Artificial Intelligence	2/2

565715	Knowledge Management	2/2
565730	Introduction to Auto Cad	2/3
565765	Personal Resource	3/3

Course Descriptions

564631 Data Structures

Data structure is a core curriculum of information technology. In order to learn the definition of data structure and its application, one must understand data structure and how data is saved. This course serves as a good fundamental for future computer-related courses.

564632 Database Management Systems

The course emphasizes the understanding of the usage and structure of databases, developing database planning and design ability, developing the ability to establish a database and querying database information, developing the ability to maintain and manage a database, understanding various types of applicable database technologies. These topics will help students pass database related ITE certification.

564641 System Programming

This course helps students understand the operation model of assembler programs, the use of loading and linking programs in systems, the effect of macro programs in pre production, and grasp other systems programs functions.

564643 Operation Systems

The aim of this course is to introduce operating systems (OS for short) and their principles and skills. This course describes the role of the operating system, how calculating structures work together to operate in an OS. Course topics will develop the necessary knowledge and theory to design and operate an OS, but further develops students to install, maintain, and operate Linux.

564746 Marketing Information Systems

The aim of this course is to introduce and detail marketing concepts coupled with information systems to help students understand the benefit that marketing information systems bring to a business' market marketing and internal management. From the basic marketing concepts in an electronic business, the management and technology-based marketing information systems knowledge will encompass theory and practice to describe all facets of the marketing information systems.

564781 Case Study 1

This course teaches students to develop systems and to integrate and apply knowledge in groups to encourage team spirit.

564782 Case Study 2

This course develops students to explore, analyze, and solve problems while training students to share work and operate as a team to apply information skills with an attitude which challenges learning in order to create an innovative and valuable system.

565121 Linear Algebra

This course helps students propose solutions to policy issues through quantitative analysis, regression, and integration of various management models.

565645 Introduction to Unix System

Through this course, students will understand the differences between operating systems and through practice, familiarize themselves with the commands used in UNIX.

565732 Case Studies in MIS

This course combines fundamental theories and practical application to help students understand the application of information management in the electronic of businesses and the m-ification of innovative business models through business information management.

565783 Case Study 3

This course develops students to explore, analyze, and solve problems while training students to share work and operate as a team to apply information skills with an attitude which challenges learning to create an innovative and valuable system.

565851 Electronic Commerce

The aim of this course is to introduce an overview of e-commerce, current development, and explain web marketing plans, operation models, and discuss the 4Ps of web marketing methods and web marketing trends.

564153 Advanced Statistics

The course is designed for students who are not majoring in statistics. Using application-oriented content, the course is designed to favor both theory and practice. Aside from teaching students statistical methods, students will also learn to use Excel to develop data analysis and reading abilities to solve policy issues through statistical methods in business, management, finance, or accounting.

564716 Enterprise Resource Planning

The course gives students the knowledge of manufacturing transformation procedures in business and hands-on experience of operating ERP information systems. This course uses ERP software (Pro-Young Software) and emphasizes manufacturing models, including capacity, MRP, establishing bill of materials, aggregate planning, inventory control, and batch cost/step cost.

564717 Electronic Learning

To develop a framework in which the technology is able to serve the learning process; to apply conventional teaching theories as a basis and enhance the traditional learning environment by using IT to offset the shortcomings of learning time and space restriction.

564772 Integration of Multimedia

This course teaches the basic concepts of multimedia coupled with related software to help students understand the development of the field of multimedia application while training students in multimedia design skills.

564773 Animation and Digital Video Systems

This course uses the perspective of editing to develop qualities of expression through video systems. The course details the VegasPro8 system.

564853 Mobile Commerce

The aim of this course is to detail the next wave of e-commerce: mobile commerce. The goal of this course is to see from a business perspective the systematic introduction of the facets of mobile commerce to help students understand the principles and benefits of mobile commerce and practice project analysis and planning.

565250 Japanese

This course develops basic Japanese language ability of students and teaches Japanese culture, customs, and society through the Japanese language.

565365 Communication Skills

This course helps students understand the characteristics of human interaction to learn effective communication skills.

The course covers self concept, self expression, attraction, irrational thought and communication, emotions and communication, self affirmation and interpersonal communication, empathy training, and different sex communications, etc.

565371 Psychology

This course uses two-way communication and group discussion to explore and introduce psychology to help students follow their dreams and produce passion and motivation through dreams.

565661 Introduction to Software Engineering

This course explores the skills and tools needed in software engineering from the perspective of a manager. Software engineering theories and application will be systematically introduced in hopes of developing future information management personnel and help students satisfy client needs using management methods.

565680 Introduction to Object-Oriented Technology

This course hopes to help students understand the concepts of object orientation such as: abstract, sealed, inherited, variable, and more while also familiarizing them with the language and function of object orientation. This course is based on the Java language to help students use object-oriented language to express object-oriented concepts.

565703 Business Data Communications

This course helps students understand web communication models, web equipment and connectivity methods and concepts, and the operation and concepts of TCP/IP protocols.

565705 Management of Enterprise Network 1

This course introduces the various applications of business networks such as B2B, intranet and B2C e-commerce. With the rapid development of the internet, new risks fall on businesses. As such, how businesses apply the internet to improve competitiveness is a critical issue. This course combines theory and practice to help students fully understand business web applications.

565706 Management of Enterprise Network 2

This course introduces the various applications of business networks such as B2B, intranet, B2C e-commerce. With the rapid development of the internet, new risks fall on businesses. As such, how businesses apply the Internet to improve competitiveness is a critical issue. This course combines theory and practice to help students fully understand business web applications.

565711 Artificial Intelligence

This course helps students understand how computers can achieve the intelligent behavior of humans and the exploration of other artificial intelligence related principles. Students will gain a basic understanding of artificial intelligence to build upon in the future.

565715 Knowledge Management

This course defines knowledge goals, the development of knowledge, knowledge sharing, and knowledge assessment to help students understand the knowledge worker, how to effectively manage knowledge jobs, and how to use skill and technology as effective tools to increase knowledge jobs.

565730 Introduction to AutoCad

This course helps students understand the basic skills of computer drawing and 3D drawing. Students will use

ACAD and 3ds max.

565765 Personal Resource

This course helps students understand the rise, basic theories, and practical emphasis of human resource management to improve the skills of future managers.