Department of Informatics

The Bachelor of Arts in Information Management and Systems is a multidisciplinary degree integrating an understanding of computer technology, information processing technology, communications, discipline-specific knowledge, information resources administration, and the ability to recognize relationships between technical systems and social structures. The program prepares graduates to design, implement, analyze, and manage information resources and use information technology to solve problems in healthcare, industry, government, and educational settings. The curriculum for the B.A. in Information Mangagement and Systems includes includes 43-44 hours in general education, 42 hours in the information technology core and informatics, 12 hours in digital media, and 18 hours in a concentration area. The application areas provide instruction in the application of technology in one of four fields: healthcare, media and communication, education, and business.

Students who have received an associate degree from an accredited healthcare information management program and hold the registered health information technician (RHIT) certification may enroll in the accredited healthcare informatics application area (accreditation by the Commission on Accreditation for Health Informatics and Information Management Education [CAHIIM] is pending). Students completing the accredited program of study must, in addition to all other requirements for the healthcare informatics application area, perform a practicum in a healthcare setting (SHIM 498), take an approved statistics course, and take a course, and take a course in department management (SHIM 250). Upon completion, students are eligible to take the registered health information administrator (RHIA) certification exam.

Bachelor of Arts
Major in Information Management and Systems
Student Worksheet

General Education Courses

I. Communication **9**

_____ SEGL 101 and SEGL 102
_____ SSPH 201

II. Mathematics **6**

One math course:
_____ SMTH 121, 122, 126, 127, 141, 142,
One statistics course:
_____ SECO 291; SMTH 102; SPSY 225; SSOC 201

III. Information Technology **3**

_____ SCSC 138, 150; SIMS 101

IV. Natural Science **7-8**

Two courses from the following (at least one with the associated lab)
_____ SAST 111/L; SBIO 101/L, 102/L,
_____ 110/L, 206, 240, 242/L, 270; SCHM 101/L, 105, 106, 107, 109/L, 111/L, 112/L; SGEG 201, 202; SGEL 101/L, 102/L, 103/L, 120, 121, 123/L, 131; SPHS 101/L, 201/L, 202/L, 211/L, 212/L

V. Arts and Humanities **6**

One fine arts course:
_____ SAAS 204; SATH 101, 105, 106; SMUS 110, 140; STHE 161, 170
One course from the following: (no more than 3 credit hours from a specific discipline)
_____ SAAS 204; SAMS 101, 102; SATH 101, 105, 106; SEGL 250, 252, 275, 279, 280, 283, 289, 290, 291; SFLM 240, 341, 342, 475, 481; SMUS 110, 140; SPHL 102, 211; SREL 103; STHE 161, 170

VI. Foreign Language and Culture **6**

Foreign Language minimum 102 level
_____ SFRN 102; SGRM 102; SSPN 102 Placement in a 201 or higher level language course** (Students placing into 201 or higher level of a language have satisfied this requirement but will have additional hours in electives, if hours are required in the major).

VII. History **3**

_____ SHST 101, 102, 105, or 106

VIII. Social and Behavioral Sciences **6**

Two courses from the following with two disciplines represented:
_____ SANT 102; SAAS 201; SECO 221, 222; SGEG 101, 103; SGIS 201, 301 320; SPSY 101; SSOC 101; SWST 101

_____ Major Requirements[1]

_____ Information Technology Core **39**

Foundation

_____ SIMS 201: Concepts of Information Management & Systems 3
_____ SCSC 139: Visual BASIC Programming I 3
_____ SIMS 211: Microcomputer Organization 3
_____ SIMS 303: Organizational Informatics 3
_____ SIMS 305: Social Informatics 3

Networking Technology

_____ SCSC 315: Networking Technology 3
_____ SIMS 415: E-Commerce and the Internet 3

Continued on next page

Database Technology

_____ SCSC 325: Fundamentals of Relational Databases 3

_____ SIMS 421: Data Warehousing and Decision Support Systems Technology 3

IT Management

_____ SIMS 441: IT Project Management 3

_____ SIMS 450: Executive IT Managment 3

Capstone

_____ SIMS 499: Senior Seminar 3

Technical Electives [1] (choose two) **6**

_____ SIMS 498: Experiential Learning 3

_____ SIMS 422: Knowledge-Based Systems 3

_____ SIMS 423: Human/Machine Interaction 3

_____ SIMS 440: Workflow & Business Process Re-Engineering 3

_____ SHIM 417: Healthcare Information Security 3

_____ SHIM 498: Practicum in Healthcare Information Management 3

_____Digital Media and Communication 12

_____ SEGL 245: Professional Writing 3

_____ SIMS 345: Technical Presentation 3

_____ SIMS 346: Communication and New Technology 3

_____ SIMS 347: Web Page Construction 3

_____Application Areas [2] 18
(Student chooses one focus area)

Business Informatics

_____ SBAD 225: Financial Accounting 3

_____ SBAD 226: Managerial Accounting 3

_____ SBAD 371: Organizational Management and Behavior 3

_____ SBAD 390: Business Information Systems 3

_____ SIMS 440: Workflow & Business Process Re-Engineering 3

_____ Choose one upper level business or economics course 3

_____Healthcare Informatics 18

_____ SHIM 201: Understanding Healthcare Organizations 3

_____ SHIM 301: Healthcare Information Systems 3

_____ SHIM 302: Information Trends in Healthcare Systems 3

_____ SHIM 413: Network Applications for Healthcare 3

Choose two courses from the following:

_____ SHIM 412: Ethics and Risk Management in Healthcare Info Syst. 3

_____ SHIM 417: Healthcare Information Security 3

_____ SHIM 450: Healthcare Database Systems and Information Retrieval 3

_____ SIMS 422: Knowledge-Based Systems 3

_____Education Informatics 18

_____ SEDF 210: Foundations in Education 3

_____ SEDF 333: Educational Development of the Lifelong Learner 3

_____ SEDF 341: Educational Procedures for Exceptional Children 3

_____ SEDT 420: Information Systems in Education 3

_____ SEDT 430: Instructional Design and Methods for Information Systems Training 3

_____ SEDT 497: Information Systems Education Internship 3

_____Media Informatics 18

_____ SSPH 301: Theories and Principles of Human Communication 3

_____ SJOU 201: Survey of Mass Communication 3

Choose four courses from the following: 12

_____ SSPH 303: Ethics in Communication 3

_____ SSPH 310: Interpersonal Communication 3

_____ SSPH 315: Conflict Resolution 3

_____ SSPH 333: Advanced Public Speaking 3

_____ SSPH 448: Organizational Communication 3

_____ SSPH 450: Communication for Social Change 3

_____ SJOU 303: Law and Ethics of the Mass Media 3

_____ SJOU 310: Mass Media and Society 3

_____ SJOU 326: Motion Picture and Video Techniques 3

_____ SJOU 328: Public Relations and Persuasion 3

_____ SEGL 318: Writing and Computers of the Mass Media 3

_____ SEGL 345: Advanced Professional Writing 3

_____ SEGL 346: Technical Writing 3

_____Supporting Course 3

_____ Cultural Studies selected with approval of advisor 3

_____Electives [1] 2-3

_____ _____

_____ SHIM 250: Department Admin. in Healthcare 3

_____Total Hours Required 120-122

[1] *Students in accredited healthcare informatics must take SPSY 225, SHIM 498 and SHIM 250.*

[2] *A minimum grade of C is required.*