Department of Informatics

The Bachelor of Arts in Information Management and Systems is a multidisciplinary degree integrating an understanding of computer technology, information management and processing technology, communications, discipline-specific knowledge, information resources administration, and the ability to recognize relationships between technical systems and social structures (informatics). The program prepares graduates to design, implement, analyze, and manage information resources and use information technology to solve problems in health, industry, government, and educational settings. The curriculum for the B.A. in Information Management and Systems includes 43-44 hours in general education, 45 hours in the information technology core, 9 hours in digital media, and 18 hours in an application area or 18-27 hours in a departmental recommended minor. The application areas provide instruction in the application of technology in one of three fields: healthcare, communications, and business.

Bachelor of Arts
Major in Information Management and Systems
Student Worksheet

General Education Courses

I. Communication
   ______ SEGL 101 and SEGL 102
   ______ SSPH 201

II. Mathematics
   One math course:
   ______ SMTH 121, 122, 126, 127, 140, 142,
   One statistics course:
   ______ SECO 291; SMTH 102; SPSY 225;
   ______ SOSC 201

III. Information Technology
     ______ SCSC 138, 150; SIMS 101

IV. Natural Science
   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; SGEN 201, 202; SGEN 101/L,
   ______ 120/L, 121, 123/L, 131, 241;
   ______ SPHS 101/L, 201/L, 202/L, 211/L,
   ______ 212/L

V. Arts and Humanities
   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; SFYM
   ______ 240; SMUS 110, 140; SPHL 102, 211;
   ______ SREL 103; STHE 161, 170

VI. Foreign Language and Culture
    Foreign Language minimum 102 level
    ______ SCHI 102; 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
     ______ SHST 101, 102, 105, or 106

VIII. Social and Behavioral Sciences
     Two courses from the following with two
disciplines represented:
     ______ SANT 102; SAAS 201; SECO 221,
     ______ 222; SGEN 101, 103; SGRS 101, 200
     ______ 320; SPSY 101; SOSC 101, SWST 101

Major Requirements

Information Technology Core 45

Foundation
 ______ SIMS 201: Concepts of
 ______ Information Management & Systems
 ______ SCSC 139: Visual BASIC
 ______ Programming I
 ______ SIMS 211: Microcomputer
 ______ Organization
 ______ SIMS 307: Systematic Innovation

Informatics
 ______ SIMS 303: Organizational
 ______ Informatics and IT Platforms
 ______ SIMS 305: Social Informatics

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

(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 Management 3

Capstone
- SIMS 499: Senior Seminar 3

Technical Electives (choose two) 6
- SIMS 399: Independent Study 3
- SIMS 498: Experimental Learning 3
- SIMS 422: Knowledge-Based Systems 3
- SIMS 423: Human/Machine Interaction 3
- SIMS 440: Workflow & Business Process Re-Engineering 3

Digital Media & Comm. Core 9
- SEGL 245: Professional Writing 3
- SIMS 345: Technical Presentation 3
- SIMS 347: Web Page Construction 3

(Student chooses one Application Area or a Minor)

Application Areas 1

Business Informatics 18
- 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

Health Informatics 18
- SHIM 201: Understanding Healthcare Organizations 3
- SHIM 301: Healthcare Information Systems 3
- SHIM 302: Information Trends in Healthcare Systems 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

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:
- SSPH 303: Ethics in Communication 3
- SSPH 310: Interpersonal Communication 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

Minor Option 1 (Discipline) 18-27

Supporting Course 1 3-6
- Cultural Studies selected with approval of advisor or foreign language 101

Electives 0-2

Total Hours Required 120-128

A minimum grade of C is required.