

# *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 Management 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**

<p><b>I. Communication</b> <span style="float: right;"><b>9</b></span></p> <p>_____ SEGL 101 and SEGL 102 _____ SSPH 201</p> <p><b>II. Mathematics</b> <span style="float: right;"><b>6</b></span></p> <p><i>One math course:</i> _____ SMTH 121, 122, 126, 127, 141, 142, <i>One statistics course:</i> _____ SECO 291; SMTH 102; SPSY 225; _____ SSOC 201</p> <p><b>III. Information Technology</b> <span style="float: right;"><b>3</b></span></p> <p>_____ SCSC 138, 150; SIMS 101</p> <p><b>IV. Natural Science</b> <span style="float: right;"><b>7-8</b></span></p> <p><i>Two courses from the following (at least one with the associated lab)</i> _____ 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</p> <p><b>V. Arts and Humanities</b> <span style="float: right;"><b>6</b></span></p> <p><i>One fine arts course:</i> _____ SAAS 204; SATH 101, 105, 106; _____ SMUS 110, 140; STHE 161, 170</p> <p><i>One course from the following: (no more than 3 credit hours from a specific discipline)</i> _____ SAAS 204; SAMS 101, 102; SATH _____ 101, 105, 106; SEGL 250, 252, 275, _____ 279, 280, 283, 289, 290, 291; SFLM _____ 240; SMUS 110, 140; SPHL 102, 211; _____ SREL 103; STHE 161, 170</p>	<p><b>VI. Foreign Language and Culture</b> <span style="float: right;"><b>6</b></span></p> <p><i>Foreign Language minimum 102 level</i> _____ 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).</p> <p><b>VII. History</b> <span style="float: right;"><b>3</b></span></p> <p>_____ SHST 101, 102, 105, or 106</p> <p><b>VIII. Social and Behavioral Sciences</b> <span style="float: right;"><b>6</b></span></p> <p><i>Two courses from the following with two disciplines represented:</i> _____ SANT 102; SAAS 201; SECO 221, _____ 222; SGEG 101, 103; SGIS 201, 301 _____ 320; SPSY 101; SSOC 101; SWST 101</p>
<b>_____ Major Requirements<sup>1</sup></b>	
<b>_____ Information Technology Core</b> <span style="float: right;"><b>39</b></span>	
<i>Foundation</i>	
_____ SIMS 201: Concepts of Information Management & Systems <span style="float: right;">3</span>	
_____ SCSC 139: Visual BASIC Programming I <span style="float: right;">3</span>	
_____ SIMS 211: Microcomputer Organization <span style="float: right;">3</span>	
_____ SIMS 303: Organizational Informatics <span style="float: right;">3</span>	
_____ SIMS 305: Social Informatics <span style="float: right;">3</span>	
<i>Networking Technology</i>	
_____ SCSC 315: Networking Technology <span style="float: right;">3</span>	
_____ SIMS 415: E-Commerce and the Internet <span style="float: right;">3</span>	

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<b>Database Technology</b>	
_____ SCSC 325: Fundamentals of Relational Databases	3
_____ SIMS 421: Data Warehousing and Decision Support Systems Technology	3

<b>IT Management</b>	
_____ SIMS 441: IT Project Management	3
_____ SIMS 450: Executive IT Management	3

<b>Capstone</b>	
_____ SIMS 499: Senior Seminar	3

<b>Technical Electives</b> <sup>1</sup> (choose two)		<b>6</b>
_____ 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	

<b>Digital Media and Communication</b>		<b>12</b>
_____ 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**<sup>2</sup> **18**  
(Student chooses one focus area)

<b>Business Informatics</b>	
_____ 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

<b>Healthcare Informatics</b>		<b>18</b>
_____ 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
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**Electives**<sup>1</sup> **2-3**

_____ SHIM 250: Department Admin. in Healthcare	3
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**Total Hours Required** **120-122**

<sup>1</sup>Students in accredited healthcare informatics must take SPSY 225, SHIM 498 and SHIM 250.

<sup>2</sup>A minimum grade of C is required.

# Minor in Information Management and Systems<sup>1</sup>

## *Student Worksheet*

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<b>Foundation</b>	<b>9</b>		
_____ SCSC 139: Visual BASIC Programming I	3	<b>Database Technology</b>	<b>3</b>
_____ SIMS 201: Concepts of Information Management & Systems or	3	_____ SCSC 325: Fundamentals of Relational Database Management Systems	3
_____ SIMS 211: Microcomputer Organization			
_____ SIMS 303: Organizational Informatics or	3	<b>Capstone</b>	<b>9</b>
_____ SIMS 305: Social Informatics		_____ SIMS 450: Executive IT Management or	3
		_____ SIMS 499: Senior Seminar in Information Management and Systems	
<b>Networking Technology</b>	<b>3</b>		
_____ SCSC 315: Networking Technology	3		
		_____ <b>Total Hours Required</b>	<b>18</b>

<sup>1</sup>A minimum grade of C is required.