Information Systems (BS)

Degree Requirements

General Education Requirements (48 Hours)

Area I - Written Composition (2 Courses, 6 Hours)

A. 3 hours: EH 101
B. 3 hours: EH 102 or EH 105

Area II - Humanities & Fine Arts (4 Courses, 12 Hours)

A. 3 hours: CA 110
B. 3 hours from: EH 215, EH 216, EH 225, EH 226, EH 235, EH 236
C. 3 hours from: ARH 100, ARH 103, ARH 123, ARS 101, DRA 110, MUL 101
D. 3 hours from: AFR 101, ARH 100, ARH 103, ARH 123, ARH 203, ARS 101, CLA 110, DRA 110, EH 215, EH 216, EH 225, EH 226, EH 235, EH 236, LG 101, LG 102, LG 111, LG 112, LG 121, LG 122, LG 131, LG 132, LG 141, LG 142, LG 151, LG 152, LG 153, LG 171, LG 172, LG 173, LG 201, LG 202, LG 211, LG 212, LG 213, LG 221, LG 222, LG 231, LG 232, LG 234, LG 241, LG 242, 251, LG 252, LG 271, LG 272, LG 273, LGS 101, LGS 102, LGS 106, LGS 107, LGS 110, LGS 111, LGS 131, LGS 141, LGS 142, LGS 161, LGS 162, LGS 171, LGS 172, LGS 181, LGS 182, LGS 201, LGS 202, LGS 206, LGS 207, LGS 210, LGS 211, LGS 241, LGS 242, LGS 261, LGS 262, LGS 281, LGS 282, MUL 101, PHL 110, PHL 120, PHL 121, PHL 131, PHL 231, PHL 240, REL 100, REL 200, REL 201

Area III – Natural Sciences & Mathematics (3 Courses & Labs, 11-14 Hours)

A. 3-4 hours from: *MA 120, MA 125, MA 126
B. 8-10 hours from: AN 121 & AN 121L, BLY 101 & BLY 101L or BLY 121 & BLY 121L, BLY 102 & BLY 102L or BLY 122 & BLY 122L, CH 101 & CH 101L, CH 103 & CH 103L, CH 131 & CH 131L, CH 132 & CH 132L, GEO 101 & GEO 101L, GEO 102 & GEO 102L, GY 111 & GY 111L, GY 112 & GY 112L, MAS 134 & MAS 134L, PH 101 & PH 101L, PH 104 & PH 104L, PH 114 & PH 114L, PH 115 & PH 115L, PH 201 & PH 201L, PH 202 & PH 202L

Area IV – History, Social & Behavioral Sciences (4 Courses, 12 Hours)

A. 3 hours from: HY 101, HY 102, HY 135, HY 136
B. 9 hours from: AN 100, AN 101, CA 100, CA 211, CJ 105, ECO 215, ECO 216, GEO 114, GEO 115, GS 101, HY 101, HY 102, HY 135, HY 136, IS 100, IST 201, NAS 101, PSC 130, PSY 120, PSY 250, SY 109, SY 112

Area V (12 Hours)

A. 3 hours from: *BUS 245 or ST 210
B. 3 hours from: *BUS 255 or ST 340
C. 3 hours: CA 275
D. 3 hours from: *EH 372 (W) or EH 373 (W)

Students must complete a 6 credit hour sequence either in literature (Area II – EH 215 & EH 216, EH 225 & EH 226, or EH 235 & EH 236) or history (Area IV – HY 101 & HY 102 or HY 135 & HY 136)

Major Requirements (62 Hours)

Information Systems Core (11 Courses, 32 Hours)

A. 32 hours: CIS 115, CIS 300, CIS 321, CIS 324, ISC 245, ISC 272, ISC 285, ISC 360, ISC 361, ISC 462, ISC 475

Capstone (2 Courses, 3 Hours)

A. 3 credit hours: CIS 497 (W) or CIS 499
B. 0 hours: CIS 498

Information Systems Environment (5 Courses, 15 Hours)

A. 9 hours: ACC 211, ECO 215, MGT 300
B. 6 hours of 200-499 approved electives from: ACC, ECO, FIN, MGT, MKT

Information Systems Electives (4 Courses, 12 Hours)

A. 12 hours of approved electives from:
Advanced Data Management: *ISC 472, *ITE 474, *ITE 490
Health Informatics Core: HI 300, HI 410, HI 450, HI 455
ITE Web: ITE 375, ITE 380, ITE 453, ITE 482
ITE Networking: ITE 382, ITE 384, ITE 476, ITE 484
ITE Digital Forensics: CJ 223, ITE 372, ITE 373, ITE 473

Minor Requirements (0 Hours)

A minor is not required for this degree program

Notes:

* Recommended Course

Additional Information

Courses in the Major Requirements must be completed with a minimum grade of “C”.

Graduation Plan

Information Systems (BS): (120 Total Hours)

First Year - Fall Semester

Course ID	Course Description	Hours
EH 101	English Composition I	3
CA 110	Public Speaking	3
MA 120	Calculus & Its Applications	3
ISC 245	Information Systems in Organizations	3
CIS 101	Freshman Seminar CIS	2
	Total Hours	14

First Year - Spring Semester

Course ID	Course Description	Hours
EH 102	English Composition II	3
CA 275	Decision Making-Small Groups	3
ACC 211	Accounting Principles	3

CIS 115	Beginning Programming	4
Social Science 1	Social Science 1	3
	Total Hours	16

Second Year - Fall Semester

Course ID	Course Description	Hours
ISC 285	Intermediate Programming	3
ISC 272	System Architecture	3
ECO 215	Principles of Microeconomics	3
Statistics 1	Statistics 1	3
Natural Science Elective	Natural Science Elective	4
	Total Hours	16

Second Year - Spring Semester

Course ID	Course Description	Hours
CIS 324	Database Design-Dev-Mgt	3
CIS 321	Data Comm & Networking	3
ISC 360	Info Sys Analysis & Design (W)	3
Statistics 2	Statistics 2	3
Natural Science Elective	Natural Science Elective	4
	Total Hours	16

Third Year - Fall Semester

Course ID	Course Description	Hours
ISC 361	Database for Information Systems	3
CIS 300	Information Tech in Society	1
Information Systems Elective 1	Information Systems Elective 1	3
MGT 300	Management Theory & Practice	3
EH 372	Technical Writing (W)	3
History	History	3
	Total Hours	16

Third Year - Spring Semester

Course ID	Course Description	Hours
ISC 475	IS Project Management	3

Information Systems Elective 2	Information Systems Elective 2	3
Social Science 2	Social Science 2	3
Art/Drama/Music	Art/Drama/Music	3
Approved General Elective	Approved General Elective	3
	Total Hours	15

Fourth Year - Fall Semester

Course ID	Course Description	Hours
ISC 462	IS Strategy & Policy	3
IS Elective 3	IS Elective 3	3
Fine & Perf Arts Elective	Fine & Perf Arts Elective	3
Literature	Literature	3
Business Elective 1	Business Elective 1	3
	Total Hours	15

Fourth Year - Spring Semester

Course ID	Course Description	Hours
CIS 497	Senior Capstone Experience (W)	3
CIS 498	CIS Senior Seminar	0
IS Elective 4	IS Elective 4	3
Business Elective 2	Business Elective 2	3
Approved General Elective	Approved General Elective	3
	Total Hours	12

Notes
*Recommended Course
**See Degree Requirements

Department Information

Department of Information Systems and Technology Staff	
Senior Instructor, Information Technology Degree Program Coordinator, and Department Chair	Mrs. Angela M. Clark

Professor, Information Systems Degree Program Coordinator	Dr. Jeffrey P. Landry
Associate Professor, Health Informatics Degree Program Coordinator	Dr. Matt Campbell

Department of Information Systems and Technology website
https://www.southalabama.edu/colleges/soc/cist

Information Systems

The Information Systems (IS) discipline centers on the development of systems that will improve the performance of people in organizations. Information Systems professionals design, implement, and maintain the information systems that form the backbone of today's global economy. Information Systems graduates pursue professional careers as application developers, database analysts, systems analysts, IS project managers and directors. The combination of business, technical, and interpersonal skills are what recruiters seek in IS graduates.

Health Informatics

Technology is revolutionizing the way that healthcare is delivered both in the United States and around the world. The Health Informatics discipline focuses on improving patient care and outcomes through the use of information systems. Health Informaticists accomplish this in three main ways: supporting the healthcare provider, improving the efficiency and effectiveness of the healthcare organization, and empowering the patient to be more involved in their own care. Health Informatics graduates pursue professional careers with hospitals, large clinics, healthcare software vendors, and various state and federal agencies. The combination of healthcare, technical, and interpersonal skills allow HI graduates to enter these organizations and be productive immediately without the additional training that other traditional technologists may require. Health Informatics is a rapidly growing field that provides graduates who save lives and impact society through the use of technology.

Information Technology

Information technology professionals utilize state-of-the-art, computer-based tools to deliver today’s rapidly evolving computing technology to knowledge workers in widely diverse situations. The information technologist must be prepared to work in the complex network and World-Wide-Web environments to meet the needs of the end users in today’s organizations. These tasks require bringing solutions together using the different technologies developed by the computer engineers, computer scientists, and information scientists.