

# Information Technology (BS)

## Degree Requirements

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### General Education Requirements (48 Hours)

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

- A. 3 hours: EH 101
- B. 3 hours: EH 102

#### 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 or ST 315
- B. 3 hours from: \*BUS 255 or ST 310 or ST 335 or ST 340
- C. 3 hours: CA 275
- D. 3 hours from: EH 372 (W) or EH 373 (W)

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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 (59 Hours)

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#### Information Technology Core (14 Courses, 44 Hours)

- A. 44 hours: CIS 115, CIS 300, CIS 321, CIS 324, CIS 497, CIS 498, ITE 271, ITE 272, ITE 285, ITE 370, ITE 474, ITE 475, ITE 480, ITE 485

**ITE Electives (7 Courses, 21 Hours)**

Twenty-one (21) credit hours are required. Students complete one of the following Focus Tracks consisting of twelve (12) hours of specified Focus Track courses and nine (9) hours of approved Information Technology support electives.

**Web Publishing Concentration (7 Courses, 21 Hours)**

- A. 12 hours from: ITE 375, ITE 380, ITE 453, ITE 482
- B. 9 hours from approved electives

**Networking Concentration (7 Courses, 21 Hours)**

- A. 12 hours from: ITE 382, ITE 384, ITE 476, ITE 484
- B. 9 hours from approved electives

**Digital Forensics Concentration (7 Courses, 21 Hours)**

- A. 12 hours from: CJ 223, ITE 372, ITE 373, ITE 473
- B. 9 hours from approved electives

**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 Technology (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 and Its Applications	3
ITE 271	Information Technology in Organizations	3
History	**Area IV, B	3
Total Hours		15

**First Year - Spring Semester**

Course ID	Course Description	Hours
EH 102	English Composition II	3
CA 275	Decision Making-Small Groups	3
CIS 115	Beginning Programming	4
Natural Sci Elec. 1	Natural Science Elective 1	4
Approved Gen Elect	Approved General Elective	1
Total Hours		15

**Second Year - Fall Semester**

Course ID	Course Description	Hours
ITE 285	Intermediate Programming	3
ITE 272	Systems Architecture	3
CIS 324	Database Design, Development, & Management	3
Statistics I	Statistics I	3
Natural Sci Elect 2	Natural Science Elective 2	4
Total Hours		16

**Second Year - Spring Semester**

Course ID	Course Description	Hours
CIS 321	Data Communications and Networking	3
ITE 370	Advanced Application Development	3
EH 372	Technical Writing	3
Statistics II	Statistics II	3
Social Science I	Social Science I	3
Total Hours		15

**Third Year - Fall Semester**

Course ID	Course Description	Hours
CIS 300	Information Technology in Society	1
Focus Track 1	Focus Track I	3

Focus Track 2	Focus Track 2	3
Art/Drama/Music	Art/Drama/Music Course	3
ITE 480	Needs Assessment: Technology Evaluation	3
Literature	Literature	3
Total Hours		16

### Third Year - Spring Semester

Course ID	Course Description	Hours
ITE 474	Human Computer Interface	3
ITE 475	IT Project Management	3
Focus Track 3	Focus Track 3	3
Focus Track 4	Focus Track 4	3
Social Science 2	Social Science 2	3
Total Hours		15

### Fourth Year - Fall Semester

Course ID	Course Description	Hours
Focus Track Support Elective	Focus Track Support Elective	3
Focus Track Support Elective	Focus Track Support Elective	3
Lit/Fine & Perf Art Elective	Lit/Fine & Perf Art Elective	3
Social Science 3	Social Science 3	3
Approved Gen Elective	Approved General Elective	3
Total Hours		15

### Fourth Year - Spring Semester

Course ID	Course Description	Hours
Focus Track Support Elective	Focus Track Support Elective	3
ITE 485	ITE Senior Demonstration Project	3
CIS 497	Senior Capstone Experience	3
CIS 498	CIS Senior Seminar	0
Approved Gen Elec	Approved General Elective	4
Total Hours		13

**Notes**

\*Recommended Course

\*\*See Degree Requirements

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## Department Information

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**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>

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### Information Systems

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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.

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### Health Informatics

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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.

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### Information Technology

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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.