

# BUSINESS INFORMATION AND TECHNOLOGY (formerly MIS)

## WHAT YOU CAN DO WITH IT

- Business Information and Technology (BIT) is the application of information technologies, including computers and communications networks, to business, with emphasis on management of the entire information systems function.
- The ideal person for such vast opportunities is the one with both a technical information systems and a business background. This combination of backgrounds is provided by the BBA in BIT degree.
- The content areas include systems analysis and design, database management, telecommunications and networks, client-side and server-side computer programming, and the management of information systems.

## CAREER OPPORTUNITIES

- The U.S. Department of Labor consistently lists systems analysis and programming as among the top ten fastest-growing fields.
- Job categories include systems analysis and design, programming, database administration, network administration, web site design and development, and consulting.
- Virtually every type of business is dependent on information systems, so career opportunities are expected to increase in the future.
- BIT personnel are increasingly being called upon to help reengineer how businesses work to take full advantage of information systems capabilities.

## SCHOLARSHIPS AND INTERNSHIPS

BIT students are highly sought after by Memphis-area businesses for paid internships which also carry course credit toward the degree. A variety of scholarships are available to qualified students majoring in BIT.

## AMIS STUDENT ORGANIZATION

The area maintains an active student chapter of the Association for Management Information Systems. Contact Dr. Maraget Schultz, [mschultz@memphis.edu](mailto:mschultz@memphis.edu) or Dr. Brian Janz, [bdjanz@memphis.edu](mailto:bdjanz@memphis.edu), for membership information.

### Course Requirements Major (27 hours)

*A minimum 2.25 GPA is required in the major.*

#### Required Courses: (18 hours)

- |              |                                                                                         |
|--------------|-----------------------------------------------------------------------------------------|
| MIS 2845 (3) | Application Program Development I (Prerequisite: MIS 2749)                              |
| MIS 3770 (3) | Systems Analysis Methods (Prerequisite or corequisite: MIS 3210)                        |
| MIS 3775 (3) | Database and Information Management (Prerequisite or corequisite: MIS 3210)             |
| MIS 3790 (3) | Enterprise Architecture (Prerequisite: MIS 2845, Prerequisite or corequisite: MIS 3210) |
| MIS 3885 (3) | Strategic Information Technology Project Management (Prerequisite: MGMT 3110)           |
| MIS 4800 (3) | IS Strategy, Management and Acquisition, (Prerequisites: MIS 3770, 3775, 3790)          |

#### Complete three of the following: (9 hours)

- |               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| MIS 4160 (3)  | Mobile Application Development (Prerequisite: MIS 2845 or equivalent)            |
| MIS 4310 (3)  | Global Information Technology                                                    |
| MIS 4321 (3)  | Global Outsourcing in Technology                                                 |
| MIS 4672 (3)  | Project Management Tools and Leadership (Prerequisite or corequisite: MIS 3885)  |
| MIS 4681 (3)  | Fundamentals Software Testing (Prerequisite: MIS 2745, 3770)                     |
| MIS 4682 (3)  | Advanced Software Testing (Prerequisite: MIS 4681)                               |
| MIS 4760 (3)  | Web Site Development (Prerequisite: MIS 2845)                                    |
| MIS 4845 (3)  | Application Program Development III (Prerequisite: MIS 2845 or equivalent)       |
| MIS 4911 (3)  | Internship in MIS (Prerequisite: 2.75 GPA and 15 completed hours in the UD Core) |
| COMP 4262 (3) | Programming UNIX (Prerequisite: COMP 2150 or permission of instructor)           |

### Minors for students that are earning a B.B.A. with a major in business\*

**Minor in BIT:** MIS 3770, 3775, 3790, 4800

**Minor in Project Management:** MIS 3885, 4672 and 2 courses from MIS 3770, 3775, 4160, 4310, 4321, 4760, 4845, MGMT 4420, 4481, MKTG 4080, SCMS 3650, 4511

**Minor in Project Management for BIT majors:** MIS 4672 and 3 courses from MIS 4160, 4310, 4321, 4760, 4845, MGMT 4420, 4481, MKTG 4080, SCMS 3650, 4511

**Minor in Systems Testing:** MIS 2845, 3770, 4681, 4682

### Minors for students whose major is in another college of the university\*

**Minor in BIT for Non-Business majors:** MIS 2749, 3210, 3770, 3775, 3790,

**Minor in Project Management for Non-Business majors:** MIS 2749, 3210, 3770, 3775, 3885, 4672

**Minor in Systems Testing for Non-Business majors:** MIS 2749, 2845, 3210, 3770, 4681, 4682

\*prerequisite courses must be included

Valid catalog: 2016

**BIT Department Chair:** Dr. Robin Poston, (901) 678-4613, [rposton@memphis.edu](mailto:rposton@memphis.edu)

**BIT Department Website:** <http://www.people.memphis.edu/~infosys/memphis/>

## BUSINESS INFORMATION AND TECHNOLOGY: Typical 4 year sequence

### FRESHMAN Year

|                                    | Hours |                                    | Hours |
|------------------------------------|-------|------------------------------------|-------|
| ENGL 1010 <sup>1</sup>             | 3     | ENGL 1020 <sup>1</sup> (ENGL 1010) | 3     |
| ECON 2010                          | 3     | History <sup>1</sup>               | 3     |
| Humanities <sup>1</sup>            | 3     | Humanities <sup>1</sup>            | 3     |
| MIS 2749                           | 3     | ECON 2020                          | 3     |
| MATH 1710 (if needed) <sup>2</sup> | 3     | MATH 1830 (MATH 1710)              | 3     |
| Semester Total                     | 15    | Semester Total                     | 15    |

### SOPHOMORE Year

|                                                  | Hours |                                          | Hours |
|--------------------------------------------------|-------|------------------------------------------|-------|
| ACCT 2010                                        | 3     | ACCT 2020 (ACCT 2010; MATH 1710 or 1830) | 3     |
| ENGL 2201 or 2202 <sup>1</sup> (ENGL 1010, 1020) | 3     | MIS 2845 (MIS 2749)                      | 3     |
| COMM 2381 <sup>1</sup>                           | 3     | History <sup>1</sup>                     | 3     |
| Natural Science with lab <sup>1</sup>            | 4     | Natural Science with lab <sup>1</sup>    | 4     |
| Elective <sup>2</sup>                            | 3     | SCMS 2710 (MATH 1830) or MATH 1530       | 3     |
| Semester Total                                   | 16    | Semester Total                           | 16    |

### JUNIOR Year

|                                         | Hours |                                                         | Hours |
|-----------------------------------------|-------|---------------------------------------------------------|-------|
| MIS 3770 (co or prerequisite: MIS 3210) | 3     | Elective <sup>2</sup>                                   | 3     |
| MKTG 3010                               | 3     | MIS 3790 (MIS 2845, co or prerequisite: MIS 3210)       | 3     |
| SCMS 3711 (SCMS 2710 or MATH 1530)      | 3     | FIR 3410 (ACCT 2010; ECON 2020; SCMS 2710 or MATH 1530) | 3     |
| MIS 3210 (LD business core completed)   | 3     | ACCT 3130                                               | 3     |
| MGMT 3110                               | 3     | MIS 3885 (MGMT 3110)                                    | 3     |
| Semester Total                          | 15    | Semester Total                                          | 15    |

### SENIOR Year

|                                         | Hours |                                                | Hours |
|-----------------------------------------|-------|------------------------------------------------|-------|
| Major elective                          | 3     | Major elective                                 | 3     |
| MIS 3775 (co or prerequisite: MIS 3210) | 3     | MIS 4800 (MIS 3770, 3775, 3790)                | 3     |
| Major elective                          | 3     | International Business <sup>3</sup>            | 3     |
| MGMT 3510 (MIS 2749)                    | 3     | MGMT 4710 (MGMT 3110, 3510, graduating senior) | 3     |
| Elective <sup>2</sup>                   | 1-3   | SCMS 3510 (SCMS 3711)                          | 3     |
| Semester Total                          | 13-15 | Semester Total                                 | 15    |

#### (Prerequisites)

Effective catalog: 2016

**TOTAL Hours: 120-122**

**Total hours required for graduation: 120**

<sup>1</sup>General Education Requirements

<sup>2</sup>Electives can be any lower or upper division course offered by the University. Any course specific prerequisites must be met. Student may apply no more than two semester hours of physical activity courses to the minimum degree requirements of 120 hours

<sup>3</sup>Student must select one of the following: ACCT 4625; ECON 4350, 4351; FIR 4550; MIS 4310, 4321; MGMT 4510, 4810; MKTG 4530. Course will satisfy both the Major Elective Requirement and the International Business Requirement in the Upper Division Core if selected course is within the student's designated major. If the student uses this course for both the International Business Requirement in the UD Core and a major elective, the student may need an additional 3 hour elective to meet the minimum 120 hours for graduation.