

# Department of Information Technology and Decision Sciences

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**Mary C. Jones, Chair**

## Faculty

Becker; Capan; Dake; Evangelopoulos; Guynes, CDP; Jayakumar; Jones; Kappelman; Koh; Kulkarni; Kvanli; Pavur; Peak; Prybutok, CQE, CQA, CQMgr; Ryan; Sidrova; Spence; Vedder; White; Windsor, CSP; Wu

## Introduction

The Department of Information Technology and Decision Sciences educates business computer information systems designers and systems analysts for careers in industry and government. Two strong undergraduate programs are available for students who intend to pursue careers in the growing business computing field.

## Programs of Study

The department offers undergraduate and graduate programs in the following areas:

- Bachelor of Business Administration with a major in decision sciences;
- Bachelor of Science with a major in business computer information systems;
- Master of Science with majors in decision technologies and information technologies;
- Doctor of Philosophy with majors in business computer information systems and management science.

The College of Business offers the Master of Business Administration with a major in business administration. Concentrations are available at the master's level in decision sciences, decision technology and information technology.

## Bachelor of Business Administration

General requirements for the BBA are listed in the "General University Requirements" and the "University Core Curriculum Requirements" in the Academics section of this catalog and under "Bachelor of Business Administration" in the College of Business section.

### Professional Field in Decision Sciences

The professional field in decision sciences requires 18 hours of the following courses.

- BCIS 4660, Decision Systems Design
- MGMT 3830, Operations Management
- DSCI 3870, Management Science
- DSCI 4510, Model-Based Decision Support Systems
- DSCI 4520, Data-Based Decision Support Systems
- DSCI 4700, Problem Solving and Decision Making Process

### Approved Supporting Courses, 12 Hours

MGMT 4660 (or MKTG 4280 or FINA 4500, if approved in advance by the departmental undergraduate coordinator). The remaining hours are selected from 3000- or 4000-level business courses. The following are suggested elective sequences:

- BCIS 3630, BCIS 3680, BCIS 4620, BCIS 4650
- MGMT 4810, MGMT 4820, MGMT 4880
- MKTG 3700, MKTG 3710, MKTG 4620

BCIS 4800 cannot be used as a supporting course. Any exceptions to this policy must be approved in writing in advance by the departmental undergraduate coordinator.

### Additional Requirements

A candidate for the degree must complete 33 hours of business administration courses in residence, of which 15 hours must be in the professional field of study. Students are encouraged to use free electives to meet professional goals.

Students interested in the theoretical and mathematical science of computing should see the Department of Computer Science and Engineering.

### Academic Standards

1. It is recommended that students selecting decision sciences as a professional field for the BBA degree meet at least one of the following standards:
  - a. be in the top 25 percent of their high school graduating class; or
  - b. attain a minimum score of 920 recentered on the SAT or 20 on the ACT.
2. It is required that students entering the decision sciences professional field for the BBA degree have a GPA of at least 2.7 in all courses completed at UNT. First term/semester transfer students must have a

transfer GPA of at least 2.7 in order to take professional field courses.

3. A grade of C or above must be earned in each professional field or supporting field course completed in residence or transferred to UNT.
4. Academic requirements for graduation with a professional field in decision sciences include:
  - a. a minimum 2.7 GPA in all hours attempted in the professional field and supporting courses, with minimum grades of C required in each professional and supporting field course;
  - b. a minimum 2.7 GPA in all courses completed at UNT; and
  - d. a grade of C or above in each BCIS/DSCI course taken in the professional field, supporting decision sciences courses or career track.

## Bachelor of Science

### Major in Business Computer Information Systems

The faculty of the Department of Information Technology and Decision Sciences believes that there is a need in industry and government for systems analysts who have a thorough understanding of both a functional area of business and computer-based information systems.

#### Degree Requirements

The following requirements must be satisfied for a Bachelor of Science with a major in business computer information systems.

1. **Hours Required and General/College Requirements:** A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the "General University Requirements" in the Academics section of this catalog and the College of Business requirements.
2. **Business Foundation Requirements:** See "Business Foundation Requirements" in this section of the catalog.
3. **Professional Program Requirements:** See "Professional Program," below.
4. **Minor:** See individual degree plan.
5. **Electives:** See individual degree plan.
6. **Other Requirements:**
  - a. It is required that students entering the business computer information systems major for the BS degree have a grade point average of at least 2.7 in all courses completed at UNT. First term/semester transfer students must have a transfer grade point average of 2.7 in order to take professional program courses.
  - b. A grade of C or above must be earned in each professional program course completed in residence or transferred to UNT.

c. Academic requirements for graduation with a major in business computer information systems for the BS degree:

- A minimum 2.7 grade point average in all hours attempted in the professional program course, with minimum grades of C required in each professional program course;
- A minimum 2.7 grade point average in all courses completed at UNT; and
- A grade of C or above in each BCIS course taken in the professional program.

#### Preprofessional Program

- **University Core Curriculum Requirements:** see "University Core Curriculum Requirements" in the Academics section of this catalog.
- **Economics,** 6 hours: ECON 1100 and ECON 1110
- **Mathematics,** 3–4 hours: MATH 1190 or MATH 1400 or MATH 1710 with a grade of C or higher
- **Communication,** 3 hours: COMM 1010
- **Business Computer Information Systems,** 3 hours: BCIS 2610 with a grade of C or higher
- **Accounting,** 6 hours: ACCT 2010 and ACCT 2020 with a grade of C or higher
- **Data Description and Analysis,** 3 hours: DSCI 2710
- **Electives:** hours required for electives may vary based on course placement or University Core Requirement course selection. Some professional field programs may designate specific courses in place of elective hours. Students are responsible for completing the total minimum hours required for the degree.

#### Upper-Level Business Foundation

- Basic Information Systems, 3 hours: BCIS 3610
- Communication, 3 hours: BCIS 3615
- Statistics, 3 hours: DSCI 3710 or DSCI 3870
- Business Law, 3 hours: BLAW 3430
- Management, 3 hours: MGMT 3720
- Marketing, 3 hours: MKTG 3650
- Finance, 3 hours: FINA 3770
- Business Policy, 3 hours: BUSI 4940

#### Professional Program

Business Computer Information Systems, 33 hours: BCIS 3630, BCIS 3680, BCIS 4610, BCIS 4620, BCIS 4630, BCIS 4680, BCIS 4690, BCIS 4720 and three BCIS elective courses.

## Minors

### Business Computer Information Systems

A minor in business computer information systems is available to non-business computer information systems majors. The minor requires 18 hours including BCIS 3630, BCIS 4610, BCIS 4620 and three courses selected from the following:

BCIS 4630, BCIS 4640, BCIS 4650, BCIS 4660, BCIS 4680, BCIS 4690, BCIS 4720 or BCIS 4740. Variation of the minor in BCIS may be granted with approval from the Department of Information Technology and Decision Sciences. It is the student's responsibility to satisfy required course prerequisites where applicable.

### Decision Sciences

A minor in decision sciences is open to non-decision sciences majors. The minor requires 18 hours selected from the following: BCIS 4660, DSCI 2710, DSCI 3710, DSCI 3870, DSCI 4510, DSCI 4520, DSCI 4700 or MGMT 3830. Variation of the minor in decision sciences may be granted with approval from the Department of Information Technology and Decision Sciences. It is the student's responsibility to satisfy required course prerequisites where applicable.

### Graduate Degrees

The department offers degree programs leading to the Master of Science with majors in information technologies and decision technologies, and the Doctor of Philosophy with majors in business computer information systems and operations management science.

The College of Business offers the Master of Business Administration with a major in business administration. Concentrations are available at the master's level in decision sciences, decision technology and information technology.

For information, consult the *Graduate Catalog*.

### Courses of Instruction

All Courses of Instruction are located in one section at the back of this catalog.

### Course and Subject Guide

The "Course and Subject Guide," found in the Courses of Instruction section of this book, serves as a table of contents and provides quick access to subject areas and prefixes.

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## Department of Management

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**Vicki Goodwin, Chair**

### Faculty

BarNir, Cooper, Davis, D'Souza, Goodwin, Hubbard, Insley, Johnson, Kuo, Ledgerwood, Lillie, Miles, Ojha, Ponthieu, Powell, Salimath, Sexton, Taylor, Watson, White

### Mission/Vision Statement

The mission of the Department of Management is to provide quality management education leading to bachelor's, master's and doctoral degrees; to conduct relevant basic and applied research; to engage in instructional development; and to provide professional expertise and service to the department's constituent communities. Our mission is accomplished with a primary focus on the undergraduate and master's degrees, while maintaining a small doctoral program in keeping with the mission of the College of Business. This mission reflects our firm belief in the importance of teaching, supported by intellectual contributions and service.

The vision of the Department of Management, as leading educators, is to work together as a team of professionals with a singular focus — student learning. Central to the implementation of this vision is that students are our first priority. Their success is our success. We further believe that we are accountable as educators to display academic leadership. Finally, our success depends on working with the business community as partners in developing cutting-edge education.

### Programs of Study

The department offers undergraduate and graduate programs in the following areas:

- Bachelor of Business Administration with professional fields in entrepreneurship, organizational behavior and human resource management, and operations and supply chain management; and