

Business Technology Administration

CHAIR

Andrew Sears
Professor
Human-centered computing, universal access to technology, mobile computing, speech recognition, temporal usability

PROFESSORS

Guisseppe Forgionne
Decision support systems, decision technologies

Anthony F. Norcio
Health care informatics, human-centered computing, software design and engineering

Roy Rada
Artificial intelligence and finance

Henry Walbesser
Emeritus

ASSOCIATE PROFESSORS

Gerald Canfield
Medical informatics, networking

Henry Emurian
Technology education, instructional systems design, applied behavior analysis

Aryya Gangopadhyay
*Graduate Program Director
Privacy preserving, data mining, spatio-temporal data mining*

Wayne Lutters
Computer-supported cooperative work, human-centered computing, knowledge management

Carolyn Seaman
Software engineering, software development and maintenance processes and organizations, empirical research methods

Victoria Yoon
Intelligent agents, knowledge management, knowledge-based systems

Dongsong Zhang
Web-based learning, Web services, computer-supported collaboration, data mining

Lina Zhou
Deception detection, online group communication, intelligent decision support, knowledge management

ASSISTANT PROFESSORS

Zhuyuan Chen
Database systems, including XML, data integration, automatic database administration, pervasive computing, database compression, bioinformatics

Zhiling Guo
Economics of information systems, supply chain management, electronic market design, e-commerce channel strategies

Vandana Janeja
Data mining, spacial and spatio-temporal data mining, data mining for e-government and homeland security applications

George Karabatis
Databases, workflow systems, bioinformatics, mobile databases

Anita Komlodi
Human-centered computing, international usability, information visualization, information storage and retrieval, online communities

A. Gunes Koru
Software engineering, software measurement, quality, testing, reliability, evolution, design, process improvement and project management, open source development, Web engineering, bioinformatics, health-care information systems, e-voting

A. Ant Ozok
Human-centered computing (HCC), e-commerce, mobile commerce, health care usability, survey design, online communities cross-cultural usability

Sredeevi Sampath
Software engineering, software testing, Web application testing and evolution, software maintenance

SENIOR LECTURERS

Amy Everhart
Databases, 4GL languages

Tate Redding
Director Undergraduate Program, Microcomputer-based systems

LECTURERS

Dina Gorin Glazer
Computer networking, telecommunications

Jeffrey D. Martens
Data communications, security, object-oriented programming, distributed systems

John Schwartz
Emeritus

Valeri Scott
Emeritus

Dana Smith
Decision support systems, human-centered computing

RESEARCH FACULTY

Mohit Arora
Health informatics

Ashish Joshi
Health care informatics, designing and evaluating tele-health systems for chronic disease management, analyses of large clinical, administrative health care databases

The United States and other developed countries depend on computers for almost every transaction that occurs in our everyday lives. Many people refer to the present as the "information age," and it is computer systems that have made this possible. The Department of Information Systems offers programs to prepare students to be the technical people who design, build and manage these computer systems or to be knowledgeable users of them.

The information systems program is interdisciplinary, including courses in mathematics and statistics, computer programming, management science, economics and technical writing, as well as specific courses in computer information system analysis, design, construction and management. Career learning through cooperative education assignments is strongly encouraged.

The Bachelor of Arts degree in Business Technology Administration (BTA) is designed for students who want a grounding in the development and use of office systems based on micro-computers. Another major, minor or certificate program in a field of the student's interest must be completed along with the B.A. curriculum to qualify for the degree.

Career and Academic Paths

Graduates from the B.A. program will find their end-user computer skills applicable to many positions in business and government. Often, the student's other major, minor or certificate program (e.g., public administration or finance) will determine the field in which they eventually work. Some students, particularly those interested in careers in law or technical writing, combine the English writing minor with the B.A. degree.

Academic Advising

Undergraduates are advised by information systems faculty, some of whom specialize in academic advising and some of whom are primarily teachers. For students considering transferring to UMBC, Maryland community colleges have articulated programs that define the courses that will transfer as equivalent to UMBC courses.

All students must meet with their assigned academic advisor before registering for courses. Students are also encouraged to meet with their advisor any time during the semester to discuss major or career plans.

Bachelor of Arts (B.A.) in Business Technology Administration

Students who wish to obtain a Bachelor of Arts (B.A.) degree in Business Technology Administration (BTA) must satisfy the following requirements:

- 1) A grade of "C" or better for any course to be applied to the BTA major

Courses required for the BTA:

- IS 101
Introduction to Computer-Based Systems
- IS 125
Information Systems Logic and Structured Design
- IS 202
Systems Analysis Methods
- IS 295
Introduction to Applications Programming
- IS 300
Management Information Systems
- IS 303
Human Factors in Computer Systems Design

IS 350
Business Communications Systems

IS 440
Integrating Technology into Business Processes

An IS elective at the 300 or 400 level, not to include IS 399, 400, 468 or 469

Mathematics and Statistics:

MATH 115
Finite Mathematics

MATH 155
Elementary Calculus

STAT 121
Introduction to Statistics for the Social Sciences

Administrative Science:

ECAD 210
The Practice of Management

ECON 101
Principles of Economics I

ECON 102
Principles of Economics II

ECON 121
Principles of Accounting I

ECON 122
Principles of Accounting II

ENGL 393
Technical Writing

- 2) Completion of a minor, certificate or second major.

Departmental Honors for Undergraduates in the BTA Program

The departmental honors program recognizes academic excellence for those students choosing to engage in a series of enhanced learning experiences offered by the department.

Please see your IS advisor for more details regarding departmental honors.

Special Opportunities

UMBC has a very large and active cooperative education and internship program. All information systems students are encouraged to do co-ops or internships. The practical work experience gained is valued by employers in the field and is of considerable help in finding a job after graduation. One-third to one-half of IS majors take advantage of these opportunities.

Student Organizations

Information Systems Council of Majors

The Information Systems Council of Majors offers programs and tours in areas of interest to students.

Council members also have opportunities to attend meetings of computer-related professional societies.