



B R Y A N T U N I V E R S I T Y

INFORMATION TECHNOLOGY

www.bryant.edu/areasofstudy

The information technology sector includes rapidly growing industries. Increasing demand for specialists in the information technology field means graduates in this major will have plenty of career opportunities.

The Bachelor of Science in Information Technology combines traditional computer science courses with knowledge of business management and financial practices. This integrated curriculum offers the range of skills that are essential to success in all careers.

Specifically, information technology (IT) students benefit from exposure to diverse technologies as they relate to business. These technologies include software development, digital arts, databases, IT security management, telecommunications, Web site building, computer architecture, and project management. The program also focuses on the creation of technology tools and covers topics of programming, data structures, and algorithm design.

ACADEMIC EXCELLENCE

The College of Arts and Sciences and the College of Business at Bryant offer a rigorous academic curriculum, and a depth and breadth of study that encourage students to explore new fields and expand their thinking. In fact, the unique integration of business and liberal arts is a hallmark of a Bryant education—business students study liberal arts and liberal arts students study business. This foundation educates the *whole* student and enhances communication skills; leads to a more comprehensive understanding of global, cultural, and ethical issues; and develops critical thinking and decision-making skills.

Bryant's comprehensive curriculum allows you to develop your intellectual passions and define a clear path for success.

DISTINGUISHED FACULTY

Bryant's faculty are accomplished, passionate educators who are dedicated to helping you develop your intellectual potential. They continually enhance their capabilities through research, publishing, consulting, and community service, and bring this knowledge into the classroom. Our full-time tenured and tenure-track faculty come from prestigious academic programs and have demonstrated a deep commitment to your academic growth. Faculty and staff deliver an extraordinary level of personal guidance that has benefited generations of Bryant students.

FOR MORE INFORMATION

Learn more at www.bryant.edu/areasofstudy or contact Computer Information Systems Associate Professor Janet Prichard, Ph.D., department chair, at prichard@bryant.edu.

PRACTICAL EXPERIENCE

Whether it is a research project with a professor or an internship or co-op at a prestigious company like Fidelity, Amica, or Hasbro, Inc., you will have hands-on opportunity in the field before graduation. Academic clubs like the Bryant chapter of the Association for Computing Machinery can help you learn more about potential careers and get to know others interested in your area of study.

“Computers have become an integral part of our lives, and every day there are discoveries of new ways that computers can help us. Because of the unique combination of business and technology skills, our graduates are in high demand in today's job market.”

Janet Prichard, Ph.D., Associate Professor
Chair of the Department of Computer Information Systems

PROFESSIONAL SUCCESS

By creating the right tools, technologists provide the means for the production, management, and dissemination of information. Recent graduates hold titles like associate application developer, business analyst, software developer, platform analyst, and technology security and risk services associate. A sampling of companies that recruit Bryant interns and graduates include:

- Analog Devices
- APC by Schneider Electric
- Computer Sciences Corporation
- Ernst & Young
- FM Global
- The Hartford
- Textron

CURRICULUM REQUIREMENTS

INFORMATION TECHNOLOGY

| LIBERAL ARTS CORE REQUIREMENTS | CREDITS | YEAR |
|---|-----------|------|
| Liberal Arts Seminar (LCS151) | 3 | 1 |
| Introduction to Literary Studies (LCS121) | 3 | 1 |
| Microeconomic Principles (ECO113) | 3 | 2 |
| Macroeconomic Principles (ECO114) | 3 | 2 |
| Humanities Survey Courses | 3 | 1-2 |
| TOTAL | 15 | |

| LIBERAL ARTS DISTRIBUTION REQUIREMENTS | CREDITS | YEAR |
|---|-----------|------|
| Social Science Mode of Thought | 3 | 3-4 |
| Historical Mode of Thought (Upper Division) | 3 | 3-4 |
| Literary Mode of Thought (Upper Division) | 3 | 3-4 |
| Law of the Internet (LGLS356) | 3 | 3-4 |
| Interpersonal Communication (COM270) | 3 | 3-4 |
| TOTAL | 15 | |

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| FOUNDATIONS FOR LEARNING (FFL101) | 1 | 1 |
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| SCIENCE REQUIREMENTS | CREDITS | YEAR |
|--|-----------|------|
| Physics (SCI264) | 3 | 1-2 |
| Physics Lab (SCIL264) | 1 | 1-2 |
| Scientific Mode of Thought (One science course must be taken at the 300 or 400 level) | 6 | 3-4 |
| TOTAL | 10 | |

| MATHEMATICS REQUIREMENTS | CREDITS | YEAR |
|---|-----------|------|
| Mathematical Reasoning I and II (MATH105, MATH106) | 6 | 1 |
| Statistics I (MATH201) | 3 | 2 |
| Discrete Structures (MATH228) | 3 | 1 |
| TOTAL | 12 | |

| BUSINESS ADMINISTRATION MINOR | CREDITS | YEAR |
|---|-----------|------|
| Introduction to Business (BUS101) | 3 | 1 |
| Fundamentals of Computer Information Systems (CIS201) | 3 | 1 |
| Principles of Financial Accounting (ACG203) | 3 | 2 |
| Management Principles and Practices (MGT200) | 3 | 2 |
| Financial Management (FIN201) | 3 | 3 |
| Foundations of Marketing Management (MKT201) | 3 | 3 |
| Operations Management (MGT301) | 3 | 3 |
| TOTAL | 21 | |

| INFORMATION TECHNOLOGY CORE REQUIREMENTS | CREDITS | YEAR |
|--|-----------|------|
| Program Design and Logic (IT221) | 3 | 1 |
| Telecommunication Fundamentals (IT311) | 3 | 1 |
| Algorithms and Design (IT320) | 3 | 1 |
| Data Structures (IT321) | 3 | 2 |
| Database Management Systems (IT330) | 3 | 2 |
| Computer Architecture (IT348) | 3 | 2 |
| Project Management and Practice (IT442) | 3 | 4 |
| Systems Analysis and Design (CIS441) | 3 | 4 |
| TOTAL | 24 | |

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| INFORMATION TECHNOLOGY ELECTIVES | 12 | 2-4 |
| Select four (4) Information Technology Electives* | | |

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| NON-BUSINESS ELECTIVES | 6 | 3-4 |
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| BUSINESS ELECTIVES | 6 | 3-4 |
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*At least two (2) electives must be IT course designation with at least one at the 400 level. Two (2) electives may be IT or CIS at the 300 level or higher.

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| TOTAL DEGREE REQUIREMENTS | 122 | CREDITS |
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