



PROGRAM DESCRIPTION

The Bachelor of Science in Information Technology and Management at Washington Technology University is designed to provide students with the skills and knowledge needed for management positions in companies specializing in high technology products and services, software, manufacturing, and data driven organizations. The program covers business practices such as human resources and organizational behavior as well as information systems including networking and database management systems.

Program Requirements (90 Credits)

Technology Core (45 Credits)

- BUSN 102 Introduction to I.T. and Management
- MATH 200 Quantitative Tools and Methods
- CPSC 210 Computer Systems Foundations
- CPSC 250 Programming Fundamentals
- CPSC 310 Database Management Systems
- INSE 300 Legal and Ethical Issues in Information Systems
- INSE 320 Data Communications and Networking
- INSE 335 Project Management
- INSE 400 Fundamentals of Information Security

Depth of Study (40 Credits)

- MRKT 300 Principles of Marketing and Technology
- ECON 300 Managerial Economics
- BUSN 350 Business Law for Managers
- MNGT 310 Organizational Behavior
- MNGT 320 Leadership and Communications
- MNGT 330 Human Resources Management
- MNGT 400 Management Finance
- BUSN 400 Technology Entrepreneurship

Capstone (5 Credits)

- ITM 495 Capstone Project

Course Descriptions

BUSN 102 - Introduction to I.T. and Management (5cr)

This course introduces students to topics that lie at the intersection of information technology and management. Student learning focuses on foundational topics in information technology, including the systems that IT supports; as well as introductory topics in business and management. The class emphasizes the use of IT in the broader management context.

Math 200 - Quantitative Tools and Methods (5cr)

Explore ways to collect, define, describe and communicate real-world facts. Tools, techniques and methodologies commonly used for analysis, computation, decision making and quantification, conditional probability, statistics, discrete mathematics, Boolean logic, functions, distributions, reasoning, methodologies are covered.

CPSC 210 - Computer Systems Foundations (5cr)

This course introduces students to computers, computer systems, and basic structures supporting computer programming and data communications. Throughout this course, fundamental concepts in Computer Science are covered. Topics include digital building blocks of computers, computer networks, operating systems, and large-scale computing.

CPSC 250 - Programming Fundamentals (5cr)

Key structural concepts such as functions, modules, interfaces and libraries are covered. Immerse yourself in the subject through examples and programming exercises. By the end of the course you should have the ability to design and build basic software applications.

CPSC 310 - Database Management Systems (5cr)

Learn about data modeling, design, normalization, data dictionaries, client server architecture, SQL, relational databases, and MySQL in this foundational level course. Special focus is provided on understanding the critical nature of information resources and why they must be carefully managed.

ISNE 300 - Legal and Ethical Issues in Information Security (5cr)

The course explores the historical, theoretical, and thematic dimensions of ethics as it relates to information technology and cybersecurity. Historical context, frameworks, challenges and theories are explored. Information security standards, computer viruses, hacktivism, cyberstalking and ethical behavior using social media are topics covered.

Bachelor of Science in I.T. and Management

PROGRAM DESCRIPTION

INSE 320 - Data Communications and Networking (5cr)

Learn how this technology provides access, transmission, security, and routing of information within an organization over wide geographical areas. Understand how networks are interconnected, how they are designed and how they communicate with each other.

INSE 335 - Project Management (5cr)

Key concepts, tools, techniques, and standards needed to deliver products or services in a timely manner and on budget are covered. Special emphasis is placed on task scheduling, resource management, and risk planning. Upon completion, students should be able to apply basic project management concepts.

INSE 400 - Fundamentals of Information Security (5cr)

A review of compliance law, best practices in IT security, principles of network security, and an overview of operation security process and methodologies are covered. Specific focus is given on application data and computer security, threat identification, vulnerability assessments, access control, identity management and cryptography.

MNGT 310 - Organizational Behavior (5cr)

This course begins with the premise that human behavior significantly impacts the management of organizations. The course engages students in learning about leadership styles, motivations, power structures, authority structure, collaboration, and performance measurements, all of which contribute to employee- and/or manager effectiveness. Group dynamics, worker satisfaction, morale, productivity, office politics, and conflict management are also covered.

MNGT 320 - Leadership and Communications (5cr)

In this course, students will engage with the concept of leadership through the evaluation of leadership styles and skills, exploration of historical views of leadership, and by exploring leadership strengths, collaborative approaches to leadership, group development and dynamics, leadership theory, relational leadership models, vision and goal setting, and decision-making.

MNGT 330 - Human Resources Management (5cr)

In this course, students will study the functions of personnel and human resource management within an organization. Topics addressed in the course include equal opportunity, social media in employee recruitment, electronic performance appraisal, employee development via online training, compensation planning, job analysis, workforce forecasting and telecommuting, e-background checks, and online interviews.

MRKT 300 - Principles of Marketing and Technology (5cr)

This class introduces marketing as it relates to products and services with an emphasis on online and digital marketing, including marketing analytics. Through activities and focused communications, a clear value for the exchange of goods can be articulated. Additional concepts addressed in the course include marketing mix, product pricing, distribution of goods, advertising, sales, retailing, wholesaling, and market planning.

ECON 300 - Managerial Economics (5cr)

In this course, students focus on the application of various economic principles that assist managers in decision making. Topics include an overview of managerial economics, supply and demand, costs of production, pricing strategies, the forecasting of consumer demand, production decisions, sensitivity analysis, capital budgeting, labor, and uncertainty.

BUSN 350 - Business Law for Managers (5cr)

This course provides students an overview of legal rules, theories and reasoning behind everyday issues faced by managers. Topics include the court system, torts, crimes, dispute resolution, sales contracts, negotiable instruments, consumer protection, partnerships, corporations, and real estate and personal property for expanding the students' understanding of the legal rights and liabilities in the ordinary course of business.

MNGT 400 - Management Finance (5cr)

This course covers corporate finance and capital markets, emphasizing the financial aspects of managerial decisions. It touches on all areas of finance, including the valuation of real and financial assets, risk management, the trade-off between risk and expected return, and corporate financing and dividend policy. Other topics addressed include nominal interest rates, return comparisons of assets, cash flow scenarios, the time value of money, and the structure of interest rates.

BUSN 400 - Technology Entrepreneurship (5cr)

This course provides students with opportunities to learn about the attributes of a successful start-up technology organization. In addition to defining a technology landscape, students develop understandings about technology product and service categories, venture opportunity identification and strategy, creativity tools and technologies, lean canvas, venture formation, business planning, start-up operations, and recruitment.

ITM 495 - Capstone Project (5cr)

This course begins with the selection of a project, a collection of project requirements, a review of background information which could be research or customer requirements. Students will build a short timeline of deliverables and list of necessary resources. Finally, students will implement the project.

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