

MANAGEMENT AND INFORMATION TECHNOLOGY

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Mission of the Management and Information Technology Department

The Management and Information Technology Department offers two undergraduate majors – Management and Information Technology – and a graduate degree in Management with five concentrations. The Department's mission is to have its graduates successfully enter the business and IT world and to be prepared to advance in their chosen careers. The Department recognizes that the two disciplines are linked and therefore provides opportunities for students to discover the synergies that can be derived from each major's curriculum.

Areas of Study

The College offers an Associate of Applied Science (A.A.S.) in Business Administration, a Bachelor of Science (B.S.) degree in Management, and a Master of Science (M.S.) in Management. Management majors are encouraged to select a concentration in one of the following areas: E-Commerce, Finance, General Business, International Business, or Marketing. Minors in Business, Information Technology, Interactive Multimedia, Project Management, Entrepreneurship or Sports Management are also available.

Program Student Learning Outcomes:

Business Administration (A.A.S)

- PLO 1: Demonstrate an understanding of and apply the appropriate business processes, concepts, and methodologies.
- PLO 2: Explain how functional areas of business management integrate organizationally and create value for customers while adding competitive advantage for organizations.
- PLO 3: Collect and organize data to apply analytical methodologies to solve qualitative and quantitative problems to support effective business decision making.
- PLO 4: Communicate and work effectively in teams to complete projects while demonstrating collaboration and leadership skills.
- PLO 5: Examine professional ethics in light of legal, organizational, and societal responsibilities.
- PLO 6: Demonstrate the foundational knowledge and skills required for professional advancement in business and to pursue certification and advanced educational opportunities.

Information Technology (B.S.)

- PLO 1: Demonstrate an understanding of and evaluate the appropriate use of information technology processes, concepts, and methodologies.
- PLO 2: Demonstrate an understanding of the systemic effects of the use of information technology for decision-making in organizations.
- PLO 3: Explain how functional areas of information technology integrate organizationally and create value for business.
- PLO 4: Collect and organize data to apply analytical methodologies to solve qualitative and quantitative problems to support effective information technology decision making.

- PLO 5: Communicate and work effectively in teams to complete projects while demonstrating collaboration and leadership skills.
- PLO 6: Examine professional ethics in light of legal, organizational, and societal responsibilities.
- PLO 7: Demonstrate the foundational knowledge and skills required to professional advancement in information technology to pursue certification and advanced educational opportunities.

Management (B.S.)

Shared by all tracks:

- PLO 1: Demonstrate an understanding of and apply the appropriate business processes, concepts, and methodologies.
- PLO 2: Collect and organize data to apply analytical methodologies to solve qualitative and quantitative problems to support effective managerial decision making.
- PLO 3: Communicate and work effectively in teams to complete projects while demonstrating collaboration and leadership skills.
- PLO 4: Examine professional ethics in light of legal, organizational, and societal responsibilities.
- PLO 5: Demonstrate the foundational knowledge and skills required for professional advancement in business management to pursue certification and advanced educational opportunities.
- PLO 6: Explain how functional areas of business analytics integrate organizationally and create value for customers while adding competitive advantage for organizations.

Business Analytics Concentration:

- PLO 7: Show in-depth knowledge in business analytics.

eBusiness Concentration:

- PLO 7: Show in-depth knowledge in eBusiness.

Entrepreneurship Concentration:

- PLO 7: Show in-depth knowledge in entrepreneurship.

Financial Management Concentration:

- PLO 7: Show in-depth knowledge in financial management.

Human Resources Concentration:

PLO 7: Show in-depth knowledge in human resource management.

International Business Concentration:

- PLO 7: Show in-depth knowledge in international business.

Marketing Concentration:

- PLO 7: Show in-depth knowledge in marketing.

Management (M.S.)

The Master of Science (MS) in Management is a 33-credit, stand-alone, graduate degree program designed for working professionals, combining traditional campus-based classes in the evening with supplemental online and out-of-classroom activities, and delivered on a part-time or full-time basis. This year-round program will operate in the fall, spring, and summer semesters, using 7-week terms.

The MS in Management program will offer a 21-credit core and five 12-credit concentrations:

- Business Management
- Digital Marketing
- Health Care Management
- Project Management
- Social Innovation and Entrepreneurship

Program Learning Student Outcomes:

- PLO 1: Demonstrate an understanding of, and evaluate the appropriate use of management processes, concepts, and methodologies.
- PLO 2: Examine professional ethics in light of legal, organizational, and societal responsibilities. Integrate ethical thinking into all aspects of decision making.
- PLO 3: Discuss the significant influences of management in personal, organizational, and societal contexts while articulating the challenges and benefits of managing business activities in a global and diverse world.
- PLO 4: Communicate effectively in written and oral form with a range of audiences to present ideas, decisions, and recommendations on business issues.

Business Management Concentration:

- PLO 5: Apply core management terms, concepts, and processes. Explain how management integrates functional areas of business organizationally and creates values for customers while adding competitive advantage for organizations.

Digital Marketing Concentration:

- PLO 5: Apply core marketing terms, concepts, and processes. Explain how digital marketing creates value for customers while adding competitive advantage for organizations.

Health Care Concentration:

- PLO 5: Apply core health care management terms, concepts, and processes. Explain how management integrates functional areas of health care organizationally and creates value for customers while adding competitive advantage for organizations.

Project Management Concentration:

- PLO 5: Apply core project management terms, concepts, and processes. Explain how project management integrates cross-functional teams organizationally and creates value for customers while adding competitive advantage for organizations.

Social Innovation & Entrepreneurship Concentration:

- PLO 5: Apply core entrepreneurship terms, concepts, and processes. Explain how management integrates functional areas of social impact business organizationally and creates value for customers and society while adding competitive advantage for organizations.

Programs

No results were found.

Courses Business

BUS-1001 Organization and Management (3 Credits)

Introduces students to major areas of business and enables them to understand the focus of business concentrations. Examines how businesses use marketing, finance, accounting, human resources, management and technology skills. Includes an examination of diverse issues such as the role of small companies versus large corporations, going public and understanding the implications of legal, political, economic, international, environmental and ethical issues. Includes guest lectures, role-play exercises and videos. 3 credits. Offered every semester.

Typically offered: All Sessions

BUS-1028 Franciscan Career Transformation (3 Credits)

Requisite(s): Take 14 credits, Upper Freshman Standing; Using a Franciscan, holistic approach coupled with human resource practices, students will learn about the values, missions, and cultures of organizations in various industries to better align each student's personal values and purpose with those of potential future employers. Through a transformative process of reflection, assessments, career exploration, planning and follow-through with preliminary employment strategies, students will take responsibility for their professional satisfaction by establishing a development plan to take them from their remaining time at St. Francis College to their life after the College. Students will increase their self-awareness to learn how to effectively manage their careers and maximize their contribution, as well as create a career development portfolio to proactively use as a tool when pursuing desired professional opportunities. 3 credits. Prerequisite: Upper Freshman Standing. Offered every semester.

Fulfills General Education Requirement: PEM

Typically offered: All Sessions

BUS-1204 Business and Society (3 Credits)

Provides the student with an understanding of the many organizations with which a business maintains a relationship. The student gains an awareness of the strategies and tactics businesses use to manage the diversity of demands of such groups as stockholders, workers, consumers, community groups, and government regulators.

Typically offered: As Needed

BUS-1771 Intro to Fashion and Retail Management (3 Credits)

Requisite(s): Take 14 credits, Upper Freshman Standing; This course offers an introduction to the fashion and retail industries. Students will learn fashion and retail terminologies and will have the opportunity to learn about career pathways within both industries. Students will examine all segments of fashion, retail and related businesses and learn how both continue to evolve in the consumer and technology-driven marketplace.

Typically offered: All Sessions

BUS-2001 Global Business (3 Credits)

Requisite(s): BUS-1001

In this course, students learn which forces impact international expansion strategy and operations, and how industry and/or technological innovation and disruption influence international business strategy and operations. Emphasis is placed on the impact of political decisions related to international trade, the importance of understanding cultural diversity and the unique financial, logistical and human resource issues faced by global businesses. Students will explore entrepreneurial opportunities within a global context.

Typically offered: As Needed

BUS-2002 Growing Together: America & Its Railroad (3 Credits)**Requisite(s):** WRI-1100 and AMS-1001

While today the railroad industry is mostly invisible to the average American, it was arguably one of the most important drivers of the country's financial, technological, and workplace changes in the years 1850 to 1930. This course will focus on some of the key people and institutions which enabled the industry to play such a role. For financial change, the career of Jay Gould, with his manipulations of the Erie Railroad will be examined, along with the local appeal of the development of Manhattan by the Vanderbilt family's New York Central Railroad, and its construction of Grand Central Station as well as the cleansing of the notorious Tenderloin district by the Pennsylvania Railroad as it constructed Penn Station. For social change, George Pullman's founding of the Pullman Palace Sleeping Car Company enabled comfortable travel over the long routes in the American West, and provided stable employment for many of the sons of newly emancipated slaves. All these themes can be found in Steven Ambrose's book "Nothing Like It in the World", which profiles the financiers, civil engineers, and Irish and Chinese emigrants who linked the east and west coasts of the growing nation with a transcontinental rail line.

Typically offered: As Needed**BUS-2003 Changes in Corporate Culture & Your Career (3 Credits)****Requisite(s):** AMS-1001 for students pursuing American Studies minor

This course is designed to explore the vast shifts in corporate culture which have occurred in the past century. The course will present an overall timeline of the changes within the corporate working environment and how it impacts employees, society and the products and services that are created. The historical timeline culminates with an in-depth study of organizations today and how a new employee will be expected to adapt to their unique corporate culture. The course will require students to use critical thinking skills to analyze the changes and how it will impact them in their careers.

Typically offered: As Needed**BUS-2004 Corporate Social Responsibility in Film Career (3 Credits)****Requisite(s):** BUS-1001 or ENT-1001

This course will examine a wide range of corporate social responsibility dilemmas, principles, and moral reasoning that impact contemporary businesses through examination of documentaries and popular films combined with real-world case studies. Students will explore how characters in films and business executives in cases confront issues, make choices, and face the consequences of corporate behavior. Through participation in discussions and group projects, students will clarify the importance of ethical and legal behavior in corporate management and explore the role of the company as a member of society.

Fulfills General Education Requirement: PEM**Typically offered:** As Needed**BUS-2005 Sustainable Devt: the Business Case Career (3 Credits)****Requisite(s):** BUS-1001 or ENT-1001

An increasing number of businesses have discovered that being 'green', 'socially responsible', or 'sustainable' does not mean that they have to forego making money or doing well. In addition, many businesses, especially multinationals, have decided that it is in their, as well as society's, best interests to work toward the United Nations' Sustainable Development Goals (SDGs), even though doing so brings new challenges to how business is done. This course has three purposes. First, it introduces students to the SDGs and what they mean. Second, it builds the business case for engaging in sustainable practices. And third, it provides tools to help students determine and analyze when and how conflicts between the first two can emerge. 3 credits. Offered as needed.

Typically offered: As Needed**BUS-2205 Management of a Small Business (3 Credits)****Requisite(s):** BUS-1001

Emphasis is placed on the individual responsibilities involved in operating a family business or in starting up a business such as a retail store, a distribution warehouse, a sales organization, a contracting firm, or any other type of small business. Students study the legal aspects, financial processes, marketing methods, managerial techniques, and general operating procedures that will increase their abilities to achieve and maintain a profitable business entity.

Typically offered: As Needed**BUS-2260 Business Writing: Jumpstart Your Career (3 Credits)****Requisite(s):** WRI-1100 or HON-5101

This course will provide instruction and practice in business writing and professionalism.

Typically offered: As Needed**BUS-2401 "Brazil: Economy, Politics and Business" (3 Credits)****Requisite(s):** ECO-1201

This course will examine Brazil's recent economic development, its social and political consequences, as well as the practical details of doing business in Brazil. Major political, social, and cultural developments in Brazil during the 20th and 21st centuries will be discussed, as well as issues like investment opportunities, foreign trade, regulatory environment, banking and finance, labor relations, general accounting practices, and taxation. The program is led by an SFC faculty member and taught in English by FACAMP instructors, a partner institution in Campinas, Brazil, for two weeks during the summer.

Typically offered: As Needed**BUS-2772 Fashion Product Development and Sourcing (3 Credits)****Requisite(s):** Take 14 credits; Upper Freshman Standing;

This course focuses on the product development, and sourcing processes of fashion brands, from idea generation, screening, concept development, prototyping, testing and commercialization of new products through launch. Cross-functional relationships among departments and managers responsible for the design, production, marketing, and sales are examined. Special emphasis on sustainability issues.

Typically offered: All Sessions**BUS-3342 Business Ethics (3 Credits)****Requisite(s):** One 2000-level PHI course

[Renumbered from BUS 342] Designed to illustrate that responsible behavior can be compatible with a healthy bottom line even in today's highly competitive business world. Basic philosophical and business doctrines are studied and applied to real-life situations. Issues examined include the merits of affirmative action, privacy rights of employees, environmentalism, whether cost savings justify outsourcing production to countries with little protection for workers and whether whistle blowers are protecting the public or betraying fellow employees. This course can be taken either as a business elective or as one of the three philosophy courses required of all students. Prerequisite: PHI 2201 or PHI 2203. 3 credits. Offered as needed.

Typically offered: As Needed**BUS-4000 Business Research- Marketing (3 Credits)****Requisite(s):** Junior or Senior standing

An interdisciplinary approach to the study of recognizing and isolating business problems, while demonstrating the use of research as a management tool in guiding executive thinking and decision making. The scope and breadth of the research will be guided by the student's interests in collaboration with the instructor.

Typically offered: As Needed

BUS-4001 Special Topics in Business (3 Credits)

Business is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are contemporary. Topics vary from semester to semester.

Typically offered: As Needed

BUS-4002 Special Topic: Spreadsheet Analytics (3 Credits)

Requisite(s): IT-1001

This course is designed to advance analytical skills in business decision making in the spreadsheet environment. Topics include modeling techniques, spreadsheet functions and spreadsheet auditing, data management, data visualization, optimization, risk analysis and predictive modeling utilizing spreadsheet software.

Typically offered: As Needed

BUS-4003 Special Topic in Mkt: Consumer Behavior (3 Credits)

Requisite(s): Take MKT-2201

Exploration of the concepts, issues, and methods applicable to the study of human behavior in the market place. Emphasis on culture and subculture, reference groups, attitudes, learning theories, perception, motivation, decision-making and their impact on consumer and marketing management decisions (e.g., branding, segmentation). Application of behavioral sciences to understanding of customer responses to marketing actions.

Typically offered: As Needed

BUS-4004 Sports Entrepreneurship and Innovation (3 Credits)

This course examines the current trends of innovative and entrepreneurial movements in sports. The multi billion-dollar sports industry offers several entrepreneurial opportunities in the areas sports franchise, sports agency, and small sports business management professions and programs. Case studies of sport business ventures in professional and collegiate sports, and the sports apparel industry will be the emphasis the material covered. This course will provide methods and practices of business plans and the financial aspects associated with entrepreneurial and small business ventures.

Typically offered: As Needed

BUS-4005 Special Topic: Branding (3 Credits)

Requisite(s): Take MKT-2201;

This course will focus on the basic building blocks of growing and managing a brand, as well as advanced and special topics of brand management that will provide a well-rounded look at issues in integrating the brand into overall marketing and company activities. This course provides students with insights into how profitable brand strategies can be created and the implications for brand management professionals. The class blends marketing theory and practice to provide perspective on the brand management function. Prereq. MKT2201

Typically offered: As Needed

BUS-4006 Special Topic: Global Entrepreneurship (3 Credits)

This special topics course addresses entrepreneurship activities that cross national boundaries and examines the complex environment of global entrepreneurship. The program blends theory with practical experiences with an existing business and provides an opportunity for students to develop a global expansion plan for that existing business.

Typically offered: As Needed

BUS-4007 Special Topic: Franchising (3 Credits)

Requisite(s): Take MKT-2201;

In this course, students will learn about franchising and understand the legal requirements surrounding franchised businesses. Prereq. BUS1001 or ENT1001

Typically offered: As Needed

BUS-4008 Special Topic: Marketing Research (3 Credits)

Requisite(s): Take MKT-2201; MAT-1105 or higher

Research procedures including design, methods of collecting data, sampling methods, and applications of marketing research in the measurement of potential markets, consumer motivation, advertising, and sales control. The useful aspects of handling data in this course add essential elements to a student's toolkit for professional practice. Computer lab assignments and projects. If you're a geek, this class is for you! Prereq. MKT-2201 and MAT-1105 or higher.

Typically offered: As Needed

BUS-4009 Special Topic: Pricing Strategies (3 Credits)

Requisite(s): Take MKT-2201;

The role of the various pricing frameworks and tactics (e.g. value pricing, cost-plus, segmentation, bundling) in consumer behavior and implications for marketing strategies. Integration of behavioral economics frameworks and models of consumer behavior with particular attention given to understanding and analyzing the issues, problems, and opportunities characteristic of the theory and practice of setting prices. Pricing examples from various industries and legal aspects of pricing will also be discussed.

Typically offered: As Needed

BUS-4010 Special Topics in Business: Social Media Marketing (3 Credits)

Requisite(s): BUS-1001

Introduces students to the social media marketing profession and field. Students gain insights about the power of social media marketing and how it has created new opportunities and also challenges - for businesses, associations, governments and non-profits. Students will learn about the different social media strategies and tactics, including Facebook, Twitter, Google+, Location-based Services and Search Engine Optimization. The class will also discuss how social media marketing can be integrated with other marketing tactics, such as trade shows and direct mail. Best practices and case studies will be presented. Includes guest lectures and group exercises

Typically offered: As Needed

BUS-4011 Special Topics in Business Sustainability And the Role of Information Technology Media Marketing (3 Credits)

Requisite(s): BUS-1001 or IT-1001

Sustainability has become main stream concept. Many Fortune 500 companies have incorporated sustainability as part of their overall strategy and set sustainability targets. This has elevated the role of information and communication technologies (ICT). ICT emerged as an enabler for executing and measuring an organization's sustainability strategy. It is also a facilitator of innovative business models that contribute to sustainable development. The course provides an elementary overview the concept of sustainability and how companies are integrating sustainability into their strategy. Students learn about the different sustainability rankings and ratings. Special attention will be given to how technology can contribute to sustainable development and environmental and social innovation. In the class students will discuss how businesses can successfully work with IT to advance the triple-bottom line based on the latest research insights and case studies. Students will be required to make a presentation about the sustainability strategy for a tech company at the end of the class.

Typically offered: As Needed

BUS-4012 Special Topics in Business: Introduction To Business Analytics (3 Credits)**Requisite(s):** ORM-3301

The purpose of this hybrid course is to expose students to the many statistical functions in Excel and teach them how to manipulate them to solve business problems involving data and to interpret the solutions. It will help students learn about how organizations can make decisions based on statistical analysis. The course will use spreadsheet templates in which students can input data, as well as student-created spreadsheets. By the end of the course, students will be able to create different spreadsheets with which they can: evaluate the probability of outcomes; derive a normal distribution; analyze data using different probability distributions; create a linear regression model; develop and interpret forecasts. As a hybrid course, much of the work will be conducted online, supplemented by in-class meetings. Most of the in-class meetings will take place at the beginning of the session.

Typically offered: As Needed**BUS-4013 Special Topics in Business: Workshop in Financial Markets and the Global Economy (3 Credits)**

This workshop is directed toward educators who will teach students, from the elementary level to adult learning, about the financial market and its role in the global economy. The objective is to provide educators with a thorough understanding of the capital-raising process, market structure and technology, regulation, and financial products. Lectures and discussions with speakers from NYSE Euronext, the SEC, and other organizations enable teachers to translate the information to classroom curricula.

Typically offered: As Needed**BUS-4014 Special Topics in Business: Adv Workshop in SEC and Financial Markets (3 Credits)****Requisite(s):** BUS-4013 and departmental permission

This 4-day workshop is held in Washington, D.C and is directed toward educators who have previously completed the 5-day NYSE Teachers' Workshop. Its objective is to enhance educators understanding of the securities market by examining the federal government's interaction with the financial markets. The workshop consists of lecture/discussion sessions, hands-on activities, and field trips. Speakers are drawn from the SEC staff and various government agencies, including FINRA, the Department of Education, and the Consumer Financial Protection Bureau. Prerequisite: Completion of the NYSE Workshop in financial Markets and the Global Economy

Typically offered: As Needed**BUS-4015 Special Topics in Business: Advanced Workshop in Financial Markets (3 Credits)****Requisite(s):** BUS-4013, BUS-4014 and departmental permission

Workshop is a continuation of the securities and financial information learned in the NYSE Teachers' Workshop. Lecture/discussion sessions, hands-on activities, and field trips are designed to increase teacher understanding of complex market activities. Topics discussed by speakers from NYSE Euronext and other organizations include: NYSE Euronext European and Domestic Markets, and overview of Options, Derivatives, and ETFs, and current economic issues.

Typically offered: As Needed**BUS-4017 "Special Topics: Business Culture and & Industries in Turkey, Faculty-Led Study Abroad" (3 Credits)****Requisite(s):** BUS-1001

Introduces students to major areas of business in Istanbul and enables them to understand the focus of business concentrations(course requires travel to Turkey). Examines how Turkish businesses use marketing, finance, accounting, human resources, management and technology skills. Includes an examination of diverse issues such as the role of small companies versus large corporations, going public and understanding the implications of legal, political, economic, international, environmental and ethical issues. Includes guest lectures and visiting businesses in Istanbul. This course will present an overview of Turkish business operations. It will discuss various techniques used by businesses today, what works, what doesn't work and why. It will help you understand the forces that impact business operations, such as the economy, cultural and environmental issues, and political and social pressures. Class Meeting Time (attendance is mandatory): May 16 Introduction May 18-25 Trip to Istanbul May 26-30 Online May 31 Presentation

Typically offered: As Needed**BUS-4019 Special Topics: Marketing Innovation & New Product Development Study Abroad (3 Credits)****Requisite(s):** BUS-4018

This course is designed for business and non-business students who want to use their creativity and knowledge to create and market novel products and services for consumers. Students pursuing for-profit or non-profit entrepreneurship ventures will be required to create a value proposition for their new innovation, strategies to protect their intellectual property, and a marketing plan to deliver their new product/service to customers. As a result of this course, students will be capable of conducting effective market analysis, industry analysis, competitive analysis, and risk analysis to successfully market an innovation for an entrepreneurship venture.

Typically offered: As Needed**BUS-4020 Special Topic: Consumer Behaviors (3 Credits)****Requisite(s):** MKT-2201

Consumer Behavior 3 credits Exploration of the concepts, issues, and methods applicable to the study of human behavior in the market place. Emphasis on culture and subculture, reference groups, attitudes, learning theories, perception, motivation, decision-making and their impact on consumer and marketing management decisions (e.g., branding, segmentation). Application of behavioral sciences to understanding of customer responses to marketing actions.

Typically offered: As Needed**BUS-4021 Topic: Management of Modern Cities- Land & Assets (3 Credits)****Requisite(s):** bus-1001

This course provides students with the opportunity to explore the complex management challenges of modern cities as viewed through the lens of their land and core assets (e.g. infrastructure, public transit, bridges, parks, waterfront, zoning, etc.). New York City will be the primary focus, beginning in the early 20th century with an overview of the tenets of modern urban planning, a critical look at the impact of Robert Moses' grand projects, the 1960s emergence of Jane Jacobs and the notion of small-scale neighborhood intimacy, and an analysis of signature initiatives faced by mayoral administrations from Wagner through Bloomberg.

Typically offered: As Needed

BUS-4022 Special Events Planning and Management (3 Credits)**Requisite(s):** BUS-1001

This course is designed for business and non-business students interested in learning the skills necessary to create, organize, budget, plan, promote and implement a wide-range of events. This range includes but is not limited to: fundraisers and auctions, special receptions, ceremonies and commemorative events, celebrations and reunions, weddings and galas, informative events, meetings and conferences. Through hands-on learning, case studies and guest lectures, students will develop skills necessary for creating their own entrepreneurial events or managing events for private or non-profit organization.

Typically offered: As Needed**BUS-4023 Topic: Master Marketing Content Creation (3 Credits)****Requisite(s):** MKT-2201

Learn how to tailor marketing campaigns for different channels. While companies need to stay on message, each marketing channel has its own requirements and opportunities to engage with customers. In this class students will learn how to adapt marketing content for a fictive marketing campaign across different channels, from a press release to a Facebook ad. The following channels will be covered: newsletter, flyer, social media (FB, Instagram, Google+, LinkedIn, Twitter), press release, and blog post. Students will also learn about different tools that are available to marketers, such as email programs and social media management systems.

Typically offered: As Needed**BUS-4024 Fundraising and Community Relations (3 Credits)****Requisite(s):** Take BUS-1001;

This course provides students with the fundamentals of fundraising and community relations with a special focus on nonprofit organizations, especially those challenges facing small to mid-sized community organizations; development of viable strategies for attracting diverse and sustained financial support for nonprofits; development of strategies for dealing with clients, area residents, members, trustees, legislators, the press, and other important constituents; practical, hands-on exploration of the skills and knowledge needed to equip managers of nonprofits to position their organizations effectively in the community.

Typically offered: As Needed**BUS-4025 Sustainability and Marketing (3 Credits)****Requisite(s):** Take BUS-1001;

Many Fortune 500 companies have incorporated sustainability as part of their overall strategy. They have set targets for their triple-bottom line, which includes environmental, social and governance performance metrics. Being a responsible company is good business. The seminar provides an elementary overview the concept of sustainability, how companies are integrating sustainability into their strategy, and how sustainability can be communicated to company's stakeholder groups. They learn the spectrum of sustainability marketing - from sustainability reports to sustainability ratings. Students will discuss global sustainability trends, the rising consumer demand for green and socially responsible products, and potential traps, such as greenwashing.

Typically offered: As Needed**BUS-4026 Human Resources and Technology (3 Credits)****Requisite(s):** Take HR-2201 or HR-2204

Technology has altered the Human Resources office as we've known it. The evolution of technology and software programs makes it possible to use systems and data techniques to streamline HR processes. We will explore recruitment, HRIS systems, performance management and social media strategies and their impact to the organization. Whether it's planning for the company's future or creating and implementing cost cutting plans, the tools are available and ready to be part of our everyday duties.

Typically offered: As Needed**BUS-4027 Topic: Nonprofit Management (3 Credits)****Requisite(s):** BUS-1001

This course provides an overview of the principal theories, management practices and challenges of nonprofit and nongovernmental organizations. Through readings, case studies and first-hand accounts, students explore the role of non-profits in society, public affairs and facilitating social change. Particular attention is paid to helping students hone communication skills that will be needed throughout their time in the master's program, including self-expression (through class participation), group work (through analysis of a case study), academic writing (by completing two papers) and public speaking (case study presentation).

Typically offered: As Needed**BUS-4028 Topic: Franciscan Career Transformation (3 Credits)**

Using a Franciscan, holistic approach coupled with human resource practices, students will learn about the values, missions and cultures of organizations in various industries to better align each student's personal values and purpose with those of potential future employers. Through a transformative process of reflection, assessments, career exploration, planning and follow-through with preliminary employment strategies, students will take responsibility for their professional satisfaction by establishing a development plan to take them from their remaining time at St. Francis College to their life after the College. Students will increase their self-awareness to learn how to effectively manage their careers and maximize their contribution, as well as create a career development portfolio to proactively use as a tool when pursuing desired professional opportunities.

Typically offered: As Needed**BUS-4029 Special Topic: Bus and Sustainable Devet (3 Credits)****Requisite(s):** Take BUS-1001 or ENT-1001;

The United Nations' 17 Sustainable Development Goals (SDGs) not only are directed at eliminating poverty and combatting climate change, but they also aim to make the world a cleaner, safer, more equitable and just place. Achieving them will require the combined efforts of governments, institutions, and business. This course will examine the role business and the private sector can play in achieving the SDGs. Students will learn (a) what is meant by 'sustainable development'; (b) what the different SDGs are; (c) what it means for a company to be 'sustainable'; and (d) how to critically assess the sustainability activities of companies. Pre-req: BUS 1001 or ENT 1001

Typically offered: As Needed

BUS-4030 Special Topic: Programming for Business Workshop in Financial Markets (3 Credits)**Requisite(s):** BUS-4013, BUS-4014 and departmental permission

This course introduces students to the foundations of programming in business. It involves both a theoretical component (e.g. learning about basic programming concepts like loops, arrays and functions) as well as a practical component (e.g. implementing algorithms on a computer). The course also provides the initial steps towards learning the principles of object-oriented design and programming through the use of Python programming language.

Typically offered: Fall and Spring**BUS-4031 The Business of Esports (3 Credits)**

This special topic explores the business of esports and professional videogames. This includes exploring how each of the dominant players within the esports business ecosystem earns revenues and how they interact with each other in this billion-dollar entertainment space. It introduces learners to esports and the history, current state, and future of the esports business. Students will learn about the primary stakeholders in the esports business, including the gaming talent, esports teams, event organizers and game publishers.

Typically offered: As Needed**BUS-4990 Internship in Business (1-3 Credits)**

Supervised work experience in various fields of business. Requires the submission of a written report. May be taken twice for credit.

Typically offered: On Demand**BUS-4995 Independent Study in Business (1-3 Credits)**

Individual research and study with the approval of the Management department.

Typically offered: On Demand**BUS-4998 Capstone Business Policies (3 Credits)****Requisite(s):** FIN-3301 or ECO-3331, MKT-2201, MAT-2301 or ORM-3301, Senior Standing - 90 credits, HR-2204

The focus of this capstone course is a dynamic, competitive business simulation in which students run a company, filling the roles of managers in such areas as strategic planning, production, operations, marketing, and finance. Students learn about planning, time management, and team building in a business environment.

Typically offered: All Sessions**BUS-5401 Contemporary Business Issues: Sustainable Development (3 Credits)**

Contemporary Business Issues is the cover title for Honors courses with a business focus or theme. The theme that will be addressed will be multidisciplinary in nature and of topical interest. Suggested themes include, but are not limited to: Sustainable Development; Business and Culture; Business and the Environment; Reconciling Nationalism and Globalization. Sustainable Development discusses how the disciplines of economics, political science, management, biology, geography, culture and history are comingled in the subject of how all humans can improve their standard of living without exceeding the earth's ability to sustain that standard of living; hence, sustainable development.

Typically offered: All Sessions**BUS-5402 Business Leaders in Us History Sustainable Development (3 Credits)**

This course examines the use of biographies as a way to explore and understand US Economic History. Beginning by evaluating the value of using Biographies as a means of exploring economic history, biographies of well known entrepreneurs and successful business figures such as Vanderbilt, Rockefeller, Morgan and Gates will be studied.

Typically offered: All Sessions**BUS-6995 Independent Study in Business (1-3 Credits)**

Graduate students only. Independent research and study in a topic in Business including submission of a written report. Prerequisites: graduate standing and approval of the department chairperson.

Typically offered: As Needed**BUS-7999 Business Policies Capstone (3 Credits)**

Graduate students only. The focus of this capstone course is a dynamic, competitive business simulation in which students run a company, filling the roles of managers in such areas as strategic planning, production, operations, marketing, and finance. Students first learn about the role of strategic planning through case analysis and then apply their skills in the simulation. As managers, students handle labor negotiations, address total quality management issues, analyze and determine financing options, and address boards of directors.

Information Technology

IT-1001 Computer Tools (3 Credits)

In this course students will perfect their ability to interpret primary and secondary sources, recognize when information is needed and to locate, evaluate, and effectively communicate information using appropriate technologies. Including an overview of computers, the Internet, Web 2.0 technologies, Office applications, and data management. You will also learn the fundamentals of computer security, which will enable you to protect your information from the various dangers that exist online. Lab fee.

Fulfills General Education Requirement: ITML1**Typically offered:** All Sessions**IT-1002 App Design & Development in the Humanities (3 Credits)**

This course will introduce students to the fundamental principles of computing and the building blocks of programming, teaching how to write fun and useful apps using the Xcode development environment. Students will use computers to creatively design and develop apps for iOS mobile devices such as iPhones and iPads integrating digital media with app design. The course topics are targeted specifically to enhance and promote humanities research and engagement.

Fulfills General Education Requirement: ITML1**Typically offered:** All Sessions**IT-1102 Multimedia Design (3 Credits)****Requisite(s):** IT-1001

This course develops core concepts and practical skills in multimedia design and production. Practical experience is offered in project planning and development including design, production and prototyping, testing, and publishing. The course provides effective techniques for preparing graphics, animation, text, digital audio and video for multimedia applications including CD-Rom titles, websites, marketing presentations, and interactive kiosks. Among the key software tools explored are, Microsoft Publisher, Microsoft PowerPoint, iMovie, Adobe Photoshop CS5, Adobe Illustrator CS5 And Adobe InDesign CS5. Lab fee.

Typically offered: Spring Only

IT-1103 Computer-Based Information Systems (3 Credits)**Requisite(s):** IT-1001

Information technology has radically changed the internal operations of organizations and market places in which they compete. The tool kit of skills of the business professional must include the understanding of the fundamentals of information technology and its impacts on the other areas of business—strategic management, finance, accounting, marketing, and operations. This course is intended to provide the basic set of skills. Although it is necessary to have a technology basis, the focus will be on how technology can be applied in business, how it can be used to create products, how it can serve as an agent of change in reorganizing business processes, and how it can radically improve business decision making. Lab fee.

Typically offered: All Sessions**IT-1104 Programming I (3 Credits)****Requisite(s):** IT-1103, MAT-1104 or higher

This course stresses three major themes: a rigorous introduction to the process of algorithm problem solving, the organization of computers upon which the resulting programs run, and an overview of the logical and ethical context in which the field of computing exists. Topics include basic ideas on arithmetic problem solving and programming, principles of top-down design, step-wise refinement, and procedural abstraction. Introduction to programming in a structural programming language, basic control structures, data types, and input/output conventions. Lab fee.

Typically offered: All Sessions**IT-1105 Game Programming Using Visual Basic (3 Credits)****Requisite(s):** IT-1001

This course is an introduction to game program design and development. Students will use an object-oriented approach to the game program development process involving the following series of steps: find a game idea, identify the audience, identify the game features, determine the look and feel of the game including the interface, create specifications detailing the game rules, create the source code, test the source code, and perform quality assurance. This approach helps students to build multilingual programming and analysis capabilities. Students will use Microsoft Visual Basic to build and execute their game programs. Lab Fee.

Typically offered: All Sessions**IT-1106 Introduction to App Development for Mobile Devices (3 Credits)****Requisite(s):** IT-1001

This course is designed to provide an introduction to app development for mobile devices. Students will learn to use the iPhone SDK set of development tools for creating applications for the iPad, iPhone and iPod touch devices by utilizing the iPhone SDK's Xcode, Interface Builder, and UIKit framework to build and design apps. Techniques and tools covered will enable students to use the powerful features of Objective-C, Cocoa Touch, and the various iPhone SDK libraries and frameworks for app development. Presented as a combination of instructor-led presentations and hands-on exercises. Lab fee.

Typically offered: As Needed**IT-2105 Programming II (3 Credits)****Requisite(s):** IT-1104

An introduction to object-oriented programming using C++ and/or Java. Topics include advanced features in structured programming using UNITS and an introduction to object-oriented programming (OOP) techniques. Lab fee.

Typically offered: All Sessions**IT-2110 COBOL Programming (3 Credits)****Requisite(s):** IT-1001

An introduction to COBOL program design and development. Students will use a structured approach to the program development process involving the following series of steps: identification of the problem, analysis of the problem, identification of the algorithmic patterns, specification of the logical design solution using pseudo code or structure charts, creation of the source code, compilation and testing of the source code, and analysis of program output. This structured approach helps students to build multilingual programming and analysis capabilities. Students will use MicroFocus COBOL software to compile and execute their COBOL programs. Offered in Spring. Lab Fee.

Typically offered: All Sessions**IT-2201 Telecommunications and Networking (3 Credits)****Requisite(s):** IT-1103

An introduction to data communications hardware and software and their applications in computer networks. Topics include communication system components, communication sharing, packet switching, network control, common carrier issues, and local area vs. global area networks. Lab fee.

Typically offered: Fall Only**IT-2220 Robotics (3 Credits)****Requisite(s):** IT-1001

The objective of this course is to use a hands-on approach to introduce the basic concepts in robotics, focusing on mobile robots and illustrations of current state-of-the-art research and applications. Course information will be tied to lab experiments; students will work in teams to build and test increasingly more complex LEGO Mindstorms-based mobile robots. Lab fee.

Typically offered: As Needed**IT-2270 Computer Forensics (3 Credits)****Requisite(s):** IT-1103

Computer forensics—the science of obtaining and analyzing evidence from computers—is the name for a newly emerging field of study and practice that incorporates many areas of expertise. Some of these areas have been called network security, intrusion detection, incident response, infrastructure protection, disaster recovery, continuity planning, software engineering, cyber security, and computer crime investigation. Lab fee.

Typically offered: Fall Only**IT-2410 Web Design (3 Credits)****Requisite(s):** IT-1102 is a recommended pre-requisite for IT majors.,IT-1102 is not required for COM majors.

The World Wide Web has increased from a limited number of networked computers to more than 20 million computers worldwide. With the increase of network computing comes the increase in demand for Web page design. This course deals with the design principles of building and maintaining Web pages. Topics include site design using Adobe Dreamweaver CS5 with an introduction to CSS, Adobe Fireworks, Adobe Photoshop CS5 and Adobe Flash CS5. Lab fee.

Typically offered: All Sessions

IT-2420 Multimedia Design and Technologies (3 Credits)**Requisite(s):** IT-1001

This course develops core concepts and practical skills in multimedia design and production. Practical experience is offered in project planning and development, including design, production, prototyping, testing, and publishing. This course provides effective techniques for preparing graphics, animation, text, digital audio, and video for multimedia applications including CD-ROM titles, Web sites, marketing presentations, and interactive kiosks. Among the key software tools explored are Director, PhotoShop, Illustrator, Premiere, After Effects, Dreamweaver, and Flash. Web design and development issues include Dynamic HTML, Shockwave, streaming video, and video and QuickTime VR. Also examined are systems configuration and hardware requirements of the multi-platform digital production studio. Lab fee.

Typically offered: Spring Only**IT-2430 Computers in Education (3 Credits)****Requisite(s):** IT-1001

A course that focuses on the use of computers in an educational environment. Encourages the implementation of computers and computer-assisted learning in a classroom. Provides the tools to evaluate educational software. The course covers the latest techniques in instructional technology as well as the role of on-line methodologies. Lab fee.

Typically offered: As Needed**IT-2440 Scripting Languages (3 Credits)****Requisite(s):** IT-2410

An introduction to scripting languages. This course provides students with an overview of the scripting languages used in today's web-based environments. Students will learn the history of scripting languages, explore scripting languages such as HTML, XML, JavaScript, VBScript, PERL, PHP, Python, and Ruby, learn the differences between each language, and how to select the appropriate language for a task. Lab fee.

Typically offered: As Needed**IT-2445 Digital Video (3 Credits)****Requisite(s):** IT-1102

This course explores non-linear editing techniques for professional video production, incorporating real-time professional video and audio editing tools. Principles of video basics, digital video technology, the development and creative process, editing, production, effects and presentation are stressed. Integrating instructor led demonstrations and hands-on projects with Adobe Premiere CS 5.5 students gain precise control over the production process to create professional quality video.

Typically offered: All Sessions**IT-2450 Digital Imaging (3 Credits)****Requisite(s):** IT-1102

This course focuses on the interface, the tools, the features, tricks, and tips FOR DIGITAL imaging utilizing Photoshop CS, the industry standard for desktop publishing, multimedia design and web design. This course combines concepts of digital imaging as well as instructor-led demonstrations and hands-on lab exercises with Photoshop CS. Lab fee.

Typically offered: All Sessions**IT-2510 Database Management Systems (3 Credits)****Requisite(s):** IT-1103

Design, structure, and applications of database systems. Deals with problems associated with management of information. The course considers concepts such as logical and physical database organization, data security, and database life cycle. Stresses application development through fourth-generation programming techniques. The course emphasizes basic knowledge in data structures, normalization of data, modeling, and database methods. Lab fee.

Typically offered: Fall Only**IT-2520 Advanced Querying and Report Writing (3 Credits)****Requisite(s):** IT-2510

An advanced database querying and report writing course examining advanced features of structured query language (SQL) used to retrieve data from databases. Students will learn how to present data in easy-to-read simple and complex reporting formats that satisfy business needs. Lab fee.

Typically offered: Fall Only**IT-2550 Medical Informatics (3 Credits)****Requisite(s):** IT-1001

Medical informatics studies the organization of medical information, the effective management of information using computer technology, and the impact of such technology on medical research, education, and patient care. The field explores techniques for assessing current information practices, determining the information needs of health care providers and patients, developing interventions using computer technology, and evaluating the impact of those interventions. This research seeks to optimize the use of information in order to improve the quality of health care, reduce costs, provide better education for providers and patients, and to conduct medical research more effectively.

Typically offered: Spring Only**IT-2620 Business Applications (3 Credits)****Requisite(s):** IT-1001

The use of computers and business and financial software packages. The course includes familiarization with budgeting. Additional topics deal with advanced techniques in Excel and basics of Visual Basic. Lab fee.

Typically offered: Spring Only**IT-2690 Computer Support Systems (3 Credits)****Requisite(s):** IT-1103

The essential skills for the support and management of end-user computing, including applications development, end-user troubleshooting, and formulating of end-user management strategies. Strategy implementation using policies, procedures, standards, and guidelines are provided. Lab fee.

Typically offered: As Needed

IT-3101 Information Technology Law and Ethics (3 Credits)**Requisite(s):** IT-1103

The overnight entry of companies such as Amazon and Napster into mature and established industries has served as a wake-up call to business leaders everywhere to protect their innovations. Included in these new commercial developments are challenges to the fundamentals of intellectual property law, including patent, trademark, copyright, and trade secret laws. This course provides an understanding of the fundamentals of intellectual property law and how it is being used and adapted by businesses to protect their intellectual capital in cyberspace. Also included are discussions about patenting new methods of doing business; the interplay between domain names and trademarks; cyberspace copyright issues including text and graphical infringement, software, and web-site registration; and the impact of technological developments on trade secret agreements.

Typically offered: Fall Only**IT-3220 Computer and Network Security (3 Credits)****Requisite(s):** IT-1103

Students examine the management of information security and data processing facilities including thefts of data, unauthorized uses of information technology, computer viruses, and methods of protecting information with an emphasis on networked computers. The course covers information technology laws, issues of privacy, and security planning. Lab fee.

Typically offered: Fall Only**IT-3240 Linux (3 Credits)****Requisite(s):** IT-1103

This course is intended to give students an opportunity to learn the basics of the Linux operating system. Topics include the history of Linux and the Open Source movement, intellectual property issues, obtaining and installing Linux and Open Office, file system structure, text editing, basic commands, basic scripting, job scheduling, and installing applications. Lab fee.

Typically offered: As Needed**IT-3301 Project Management (3 Credits)****Requisite(s):** IT-1001

This course is an introduction to project management. Topics include overview and concepts of project management and strategies; planning successful projects (defining, specifying, delivery of scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments, corrections, record keeping, status reporting, communications); managing conflict; time management; performance measurement; contract documentation; data transfer; lessons learned. Lab fee.

Typically offered: Fall Only**IT-3310 Systems Analysis and Design (3 Credits)****Requisite(s):** IT-2510

Traditional analysis, design, and implementation of information systems through data flow analysis and the systems development life cycle approach. The fundamentals of systems analysis and how it is applied to the development of information systems in the business environment. Major topics include methods of systems investigation, feasibility study, input-output design, system documentation, communication, implementation of new systems. control, and security. Also treated are data structures, data definition, normalization of data, and the use of Computer-Aided Software Engineering (CASE) tools. Lab fee.

Typically offered: Spring Only**IT-3313 Computer Support Systems (3 Credits)****Requisite(s):** IT-1103

The essential skills for the support and management of end-user computing, including applications development, end-user troubleshooting, and formulating of end-user management strategies. Stragey implementation using policies, procedures, standards, and guidelines are provided. Lab fee.

Typically offered: As Needed**IT-3320 Advanced Management Information Systems (3 Credits)****Requisite(s):** IT-1103

An advanced course that provides a thorough and comprehensive analysis of systems theory concepts, information systems (IS) terminology, and concepts in the context of the management of the business organization. Emphasis is placed on IS topics relevant to students seeking to become managers or IS professionals. Existing modeling, planning, design, implementation, evaluation, integration, management, and control approaches for various types of IS systems are presented. Theory and practical application considerations are highlighted in each topic. Emerging topics and technologies are also explored. Lab fee.

Typically offered: Spring Only**IT-3397 Mentored Internship for Project Mgt. (3 Credits)****Requisite(s):** IT-3301

This course will provide students with an opportunity to see and participate in projects at an on-site internship and continue to learn the Project Management Body of Knowledge (PMBOK) project concepts during weekly mentoring sessions with faculty. Students will work on-site at an internship for no less than 10/hours per week. Faculty will work closely with students to develop an understanding of how project management theory is applied in a work-based environment. Student activities on-site will vary depending on the project. They will participate, at some level, with the project team and document the project from initiation through the completion of the internship. Lab Fee.

Typically offered: Fall Only**IT-3400 HTML & CSS for Web Design (3 Credits)****Requisite(s):** IT-2410

This course will provide students with state of the art approaches to website design. The students will learn to create an attractive and organized website using HTML and CSS with emphasis on page layout consistency and navigation. This course combines concepts of web design as well as instructor-led demonstrations and hands-on Lab Exercises that will allow students to use CSS to control the look and placement of HTML elements.

Typically offered: All Sessions**IT-3410 E-Commerce Integration (3 Credits)****Requisite(s):** IT-1001

This course integrates the primary business functions of marketing and finance with the advances made through computers and information technology. Topics include Internet marketing, business-to-business commerce, business-to-consumer commerce, distribution, and tracking channels. Students will prepare an e-commerce business plan that will include pro-forma financial statements.

Typically offered: All Sessions

IT-3420 Knowledge Systems and Data Mining (3 Credits)**Requisite(s):** IT-2510

Intelligence as a basic component of information systems is rapidly becoming a necessity. Rapid advancements in the nature of commerce, in particular the emergence of the Internet as an exchange and delivery channel, have led to an explosion in the quality and quantity of data. This course covers the process of converting raw data into the knowledge that is required to support decision-making by automating the process of knowledge discovery. The course also explores how data mining increases productivity. Lab fee.

Typically offered: Spring Only**IT-3510 Data Structures (3 Credits)****Requisite(s):** IT-2105

Data representation and manipulation concepts, processing of linearly-linked lists and multi-linked data structures, operations with tree structures, sorting and searching techniques, data management systems, and programs using different structure and algorithms are studied. Lab fee.

Typically offered: Spring Only**IT-3520 Advanced Database Management (3 Credits)****Requisite(s):** IT-2510

An introduction to advanced database management systems concepts and practices. This course examines object-oriented database concepts, design, implementation, and management. Students will learn to use data modeling tools such as UML and extended ER modeling. In addition, students will examine current database management environments such as centralized and distributed databases, data warehousing, data marts, data mining, database security, client/server and Internet database environments, mobile databases, and emerging technology. Lab fee.

Typically offered: Spring Only**IT-3540 Computer Architecture and Organization (3 Credits)****Requisite(s):** IT-2105

A top-down approach to computer design. The fundamentals of computer architecture including an introduction assembly line language of programming and machine language set design. Major topics include computer organization; logical modules, CPU, memory, and I/O units; instruction cycles and the control unit; hardwiring and microprogramming; data path implementation of the CPU. Also treated are memory structure and timing, I/O interface, interrupts, programmed I/O, and DMA. Lab fee.

Typically offered: Fall Only**IT-3610 Decision Support Systems (3 Credits)****Requisite(s):** IT-2510

Introduction to the use of information and mathematical modeling to support managerial analysis and decision making. Develops the skills required to solve problems using computer-based modeling in selected disciplines such as marketing or finance. Topics may include the examination of components of a decision-support system, simulation model development, group decision-making technology, and intelligent support systems. Lab fee.

Typically offered: As Needed**IT-3620 Business Applications (3 Credits)****Requisite(s):** IT-1001

The use of computers and business and financial software packages. The course includes familiarization with budgeting, Additional topics deal with advanced techniques in Excel and basics of Visual Basic. Lab fee.

Typically offered: Spring Only**IT-3680 Operating Systems (3 Credits)****Requisite(s):** IT-2105

Overview of user interface. Topics include process structure, creation and context switching, system calls, process cooperation, memory management, virtual memory, I/O management, interrupt handling, file structure, directories, fault-tolerance. Students design projects involving construction of portions of the operating system. Lab fee.

Typically offered: Spring Only**IT-4000 Special Topics: Graphic Design (3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4001 Spcl Topics: Photoshop Web and Video (3 Credits)****Requisite(s):** IT-2420 and IT-2410;

The focus of this course is how to use Adobe Photoshop CS5 to enhance web and video images more effectively. This course is a combination of instructor-led demonstration and hands-on practice. It is ideal for students who want to increase their understanding of Photoshop CS5 and web development. The course will touch upon how to integrate these skills with software such as: Fireworks, Dreamweaver and Flash. Lab fee.

Typically offered: As Needed**IT-4002 Special Topic: Web Site Development With Django (3 Credits)****Requisite(s):** IT-1103

This course will help a student develop a web site from scratch using Django. Django is a Python based web site development environment which has been used to fuel sites like the edX platform, Instagram, Pinterest, the Washington Post, the New York Times and NASA. This course is intended for first time web site developers though a basic understanding of web architecture is helpful. Lab fee.

Typically offered: As Needed**IT-4003 Special Topic: Web Project Management Using an Agile Approach (3 Credits)****Requisite(s):** IT-1103

This course will introduce agile project management concepts with a focus on web technology projects. We will cover the history of agile development, its roots in Lean manufacturing, and specific methodologies like SCRUM. We will modify to deal with Web site development issues (User Experience design, quality assurance, continuous integration). Prerequisite: IT1103 Lab fee.

Typically offered: As Needed**IT-4004 Special Topic: Programming With Swift Using an Agile Approach (3 Credits)****Requisite(s):** IT-1001

This course introduces fundamental structured and object-oriented programming concepts and techniques, using Swift, and is intended for all who plan to use computer programming in their studies and careers. Topics covered include variables, arithmetic operators, control structures, arrays, functions, dynamic memory allocation, files, class usage and class writing. Program design and testing are covered as well as more advanced object-oriented concepts including inheritance. Prerequisite: IT 1001 or equivalent

Typically offered: As Needed

IT-4005 Special Topic: Intro to Adobe Illustrator Using an Agile Approach (3 Credits)**Requisite(s):** IT-1102

This course offers a practical overview of Adobe Illustrator's interface, workspace, tools, and techniques. Adobe Illustrator is a powerful tool that allows you to create graphics. You will practice building with shapes, colors, gradients, and lines while integrating good use of typography.

Prerequisite: IT 1102

Typically offered: As Needed**IT-4010 Special Topics: Visual Basic (3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Basic computer skills using Microsoft products and basic programming knowledge desired but not required. Lab fee.

Typically offered: As Needed**IT-4015 Special Topics: Java (3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4020 Special Topics: 3-D Drawing (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4030 Special Tpc: After Effect 4-D (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4040 Special Tpc: Game Programming w Visual Basic (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4041 Special Topic: Python Programming (3 Credits)****Requisite(s):** IT-1103

A gentle introduction to Python using a gaming project as the basis for learning the language. The course is intended for both introductory programming and those with some prior programming experience. Lab fee.

Typically offered: As Needed**IT-4042 Special Topic: Programming for Business Workshop in Financial Markets (3 Credits)****Requisite(s):** IT-1103

This course introduces students to the foundations of programming in business. It involves both a theoretical component (e.g. learning about basic programming concepts like loops, arrays and functions) as well as a practical component (e.g. implementing algorithms on a computer). The course also provides the initial steps towards learning the principles of object-oriented design and programming through the use of Python programming language.

Typically offered: Fall and Spring**IT-4050 Special Topics: Dream Weaver (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4060 Topics: Intro to Prog Using Mathematica (3 Credits)****Requisite(s):** Take IT-1001

Mathematica is software used to perform both simple and complicated mathematical calculations which requires no previous knowledge of or training in computer programming. This course is an introduction to Mathematica and will cover such areas as graphing in two and three dimensions in addition to the language of the software itself. Because it can be used for a variety of computational techniques it can be useful for students in mathematics, the sciences, economics, finance, accounting and information technology. Lab fee.

Typically offered: As Needed**IT-4070 Special Topics in It: Project Management For Entrepreneurs (3 Credits)****Requisite(s):** IT-1001

Planning, building and growing your own business requires an interdisciplinary skill set. This course will help students to develop the skills they need to see their business plan become a reality using the project management core principles. Communication, risk management, leadership, resource and time management are all part of the applied learning skills that will be taught in this course. Students will actively participate in developing their own project plan to create and develop their own business including how to find funding, develop new products, and developing marketing plans.

Typically offered: As Needed**IT-4100 Special Topics: Photoshop (3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4110 Special Topics: Advanced Excel (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4120 Special Topics: Advanced Photoshop (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4130 Spcl Tpcs: Intensive Adobe Illustrator (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed**IT-4140 Special Topics: Intensive Flash (1-3 Credits)**

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed

IT-4150 Sp Tpcs: Intensive Desktop Publishing (1-3 Credits)

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed

IT-4160 Special Topics: Advanced Access (1-3 Credits)

Information technology is a rapidly changing discipline. The focus of this course is to address the need to cover different topics that are on the cutting edge of IT. Topics vary from semester to semester. Lab fee.

Typically offered: As Needed

IT-4990 Internship in Information Technology (1-3 Credits)

Supervised work experience in various fields of IT. Requires the submission of a written report. Number of credits awarded is dependent on number of hours worked during the semester, with a maximum of 3 credits in a semester. Students are limited to a total of 6 internship credits. Students find internships through their own initiative, the Career Development Office, and occasionally the Management & IT Department.

Typically offered: On Demand

IT-4995 Independent Study in Information Technology (1-3 Credits)

Individual research and study with the approval of the Management & IT Department. If qualified, an independent study can be used to substitute for an elective in IT. Projects must be scheduled for completion within the semester. Prerequisite: prior application and approval of Chairperson and faculty mentor required.

Typically offered: On Demand

IT-4998 Capstone Project (4 Credits)

Requisite(s): Senior standing, IT-2201, IT-3310, IT-3101

This course provides students with an opportunity to apply their theoretical knowledge to a practical problem in the area of information systems. This project is a general investigation and report within the subject area of information systems. The student group can develop a mock business demonstrating how information technology may be integrated into the operating system of that company. Students work under the supervision of the course director. Lab fee.

Typically offered: All Sessions

IT-6001 Information Systems for Managers (3 Credits)

Graduate students only. This course will provide an overview of information systems concepts. Students will explore how information system can give organizations a competitive advantage while providing managers with tools for planning, decision making, and effective controls. Students will explore the value of information systems for transforming business operations through review and analysis of literature and case studies.

Management

MGT-6001 Organization and Strategy (3 Credits)

Graduate students only. This course will provide an overview of organizational theory and business strategy in the context of modern organizations. Students will develop an understanding of organizations as dynamic, evolving systems through review and analysis of the literature, case studies, and class discussions.

MGT-6002 Special Topics in Organizational Mgmt (3 Credits)

Requisite(s): MGT-6001

Graduate students only. This course will explore specific, identified topics in organizational management. The subject matter will be chosen by the instructor prior to registration, with the approval of the department chair. Topics may include leadership, strategic planning, project management, strategic human resources management, or other contemporary concerns in organizational management.

MGT-6003 Org'l Development and Change Mgmt (3 Credits)

Requisite(s): MGT-6001

Graduate students only. This course will explore the issues, theories and methods associated with organizational development and change management. Topics will include organizational culture, intervention strategies, and overcoming resistance to change. Students will focus on building management skills to aid organizations in successfully adapting to uncertainty and implementing new practices.

MGT-6004 Special Topics: Organizational Mgt (3 Credits)

Requisite(s): MGT-6001

Graduate students only. This course will explore specific, identified topics in organizational management. The subject matter will be chosen by the instructor prior to registration, with the approval of the department chair. Topics may include leadership, strategic planning, project management, strategic human resources management, or other contemporary concerns in organizational management. Prerequisites: MGT 6001 Organization and Strategy

MGT-6900 Research in Management (3 Credits)

Requisite(s): Take 3 graduate level credits., Take 3 graduate level credits with a minimum GPA of 3.0., Department Chair approval.

A supervised, guided research project for students in the M.S. in Management program. Includes participation in faculty-led activities to discuss and analyze communication, ethical, management, and organizational behavior in health care administration, digital marketing, project management, or social innovation and entrepreneurship. May be taken for two semesters (up to 6 credits) with the approval of program director or department chair.

MGT-6990 Supervised Externship (1-3 Credits)

Must be a full-time student in M.S. in Management who has completed at least 9 credits of graduate coursework with 3.0 average and department approval. A supervised and observed volunteer, internship, externship, or work experience for full-time students in the M.S. in Management program. Includes participation in faculty-led activities to discuss and analyze communication, ethical, management, and organizational behavior at host site.

Typically offered: As Needed

MGT-6998 Capstone Project (3 Credits)

Requisite(s): 24 graduate level courses

Graduate students only. This course will be a culminating experience for the MS in Management program. The aim of the capstone is to assess students' ability to synthesize and integrate the knowledge and skills they have developed throughout their coursework rather than to introduce new concepts. Working in a team, students will consult with a client to address a real business problem by preparing a business and marketing plan while addressing accounting, financial, and legal issues and technology considerations.

Faculty Chairperson

Dr. Dennis Anderson

Professors

Anderson
Dilyard
Edington
Klein

Associate Professors

Pashkevich

Assistant Professors

Lichoro
Sanchez-Persampieri
Schroeder
Segares
Xia

Lecturers

Hoell
Smolizza

Professor Emeritus

Gomori

Department Assistant

Gelling

Adjuncts

Ahmed
Amachki
Bergen
Blount
Cellini
Coleman
D'Esposito
Diodato
Gelormino
Giardino
Jean-Toussaint
Jordan
Khan
Licata
MacIntyre
McCabe
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Weisman
Westcott