

BUSINESS AND MANAGEMENT SYSTEMS

Business and management systems is an undergraduate degree based on broad, foundational core courses. Professionals in this field analyze organizational needs to provide technology-enabled management and operations.

Today's business environments have a critical need for professionals who have an understanding of information technologies; are capable of operating in an electronic environment; and are able to synthesize, analyze, and learn from vast amounts of information. These individuals are needed to realize technology's great potential to support business processes, decision making, and communication.

As a business and management systems major, you will take courses that are rigorous and oriented toward building the foundation necessary for lifetime learning. Studying at Missouri S&T, you will benefit from the world-class computer environment and your association with excellent students from around the country and the world. Students in the program are strongly encouraged to participate in summer internships or co-ops with companies before they graduate. There are many opportunities and students benefit greatly in terms of their education and the edge they have seeking full-time employment once they graduate.

Bachelor of Science Business and Management Systems

In Business and Management Systems, the Bachelor of Science degree consists of 120 credit hours. All undergraduate students in Business and Management Systems are required to complete a General Education Requirements Core, including courses in Humanities, Social Sciences, Mathematics, Science, and Communication Skills.

A common departmental core of courses in Management and Information Technology helps provide students with skills to succeed in a fast-changing and globalized environment. Business Core courses and Business Electives provide students with comprehensive knowledge in business disciplines.

A minimum grade of "C" is required in the Business Core, Business Electives, Management, and Information Technology courses. Students have 9 credit hours for free electives.

Freshman Year			
First Semester	Credits	Second Semester	Credits
PSYCH 1101	3	IS&T 1750	3
BUS 1810 ¹	1	3 credit hours of Mathematical Science or Science ⁴	3
BUS 1110	3	ENGLISH 1600 or TCH COM 1600	3
ENGLISH 1120	3	ECON 1200	3
4 credit hours of Mathematical Science or Science ⁴	4	Science Elective ³	3
		14	15

Sophomore Year			
First Semester	Credits	Second Semester	Credits
BUS 1210	3	FINANCE 2150	3
MATH 1212	4	IS&T 1552	3
IS&T 1551	3	ERP 2110	3
ECON 1100	3	POL SCI 1200	3

SP&M S 1185	3	History Elective	3
		16	15

Junior Year			
First Semester	Credits	Second Semester	Credits
MKT 3110	3	BUS 5580	3
IS&T 4654	3	ENGLISH 2560 or TCH COM 2560	3
STAT 3111	3	BUS 3220	3
Business Elective	3	Business Electives	6
Free Elective	3		
		15	15

Senior Year			
First Semester	Credits	Second Semester	Credits
BUS 2910	3	BUS 5980 ¹	3
BUS 5360	3	BUS 5111	3
MKT 5310	3	Business Elective	3
Business Elective	3	Fine Art, Social Science, or Humanities Elective ²	3
Free Elective	3	Free Elective	3
		15	15

Total Credits: 120

A grade of "C" or better is required in the following courses for graduation: IS&T 1551, IS&T 1552, IS&T 1750, IS&T 4654, ERP 2110, FIN 2150, MKT 3110, MKT 5310, ECON 1100, ECON 1200, BUS 1110, BUS 1210, FIN 2150, BUS 2910, BUS 3220, BUS 5111, BUS 5360, BUS 5580, BUS 5980, and all Business Electives.

- Writing intensive course
- Any course in the following areas not used for other degree requirements: Art, economics, English, foreign language, history, literature, music, philosophy, political science, psychology, sociology, theater.
- Any course in the following areas: Biology, Chemistry, Geology, Geological Engineering, Physics.
- Mathematical Science is any MATH, STAT, COMPSCI or IST course not otherwise covered in the degree program
For definition of science, refer to footnote 3.

Areas of Concentration

All students are required to complete twelve credit hours chosen from 2000, 3000, 4000, or 5000-level courses in business, economics, finance, enterprise resource planning, information science & technology, or marketing. A "C" or better grade is required in all twelve credit hours. If the student chooses to designate an area of concentration for these courses, focusing at least 3 courses (9 credits) in one area, he or she may do so. Students are not required to choose a concentration area. Areas of concentration are:

E-Commerce

IS&T 5652	Advanced Web Development	3
IS&T 4641	Digital Commerce and IoT Analytics	3
IS&T 4642	E-Commerce Architecture	3
IS&T 4257	Network Economy	3
IS&T 5168	Law and Ethics in E-Commerce	3

Enterprise Resource Planning

Any 9 hours of ERP-designated courses at the 4000-level or above.

Finance

FINANCE 5160	Corporate Finance II	3
FINANCE 5260	Investments I	3
ECON 4720	International Finance	3
FINANCE 5310	Financial Technology and Analytics	3
BUS 5230	Financial Statement Analysis	3

ECON 4410, and ECON 5337 cannot be used toward this concentration.

Human-Computer Interaction

IS&T 5652	Advanced Web Development	3
IS&T 5885	Human-Computer Interaction and User Experience	3
IS&T 5886	Prototyping Human-Computer Interactions	3
IS&T 5887	Human-Computer Interaction Evaluation	3

Management

BUS 5470	Human Resource Management	3
BUS 5111	Business Negotiations	3
IS&T 5251	Management and Leadership of Technological Innovation	3

Marketing

MKT 3210	Consumer Behavior	3
MKT 4580	Marketing Strategy	3
ERP 4610	Customer Relationship Management in ERP Environment	3
MKT 5150	Customer Focus and Satisfaction	3
MKT 5320	Marketing for Non-Profits	3

Bachelor of Science Business and Management Systems Secondary Education Emphasis Area

Degree Requirements

You may earn a B.S. degree in business and management systems from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with this emphasis area. This program can be completed in four academic years and field experiences are arranged with public schools anywhere in the state.

Students interested in this emphasis area should consult with the advisor for business and management systems education majors in the business and management systems department.

In order to successfully complete this emphasis area, students must maintain a cumulative GPA of at least 2.75, and attain at least a 3.0 GPA average for all business content and professional education courses required by the Missouri Department of Elementary and Secondary Education for teacher certification. Current Missouri S&T or transfer students who wish to pursue this emphasis area must meet both these GPA requirements to be accepted into the program. Students must also meet all requirements listed under the teacher education program in this catalog. Students who do not meet all the teacher certification requirements will not be eligible for the secondary education emphasis area, even if they have completed all required course work.

A degree in this emphasis area requires 136 credit hours. The required courses are listed below. A minimum grade of "C" is required by the

department in all courses designated BUS, MKT, FINANCE, IS&T, ECON, or ERP that are counted toward this degree.

General Education

PSYCH 1101	General Psychology	3
PSYCH 2300	Educational Psychology	3
PSYCH 3310	Developmental Psychology	3
Science Elective ¹		3
Mathematical Science or Science ²		7
Fine Art, Social Science or Humanities Elective ³		3
History Elective		3
ECON 1100	Principles Of Microeconomics	3
ECON 1200	Principles Of Macroeconomics	3
POL SCI 1200	American Government	3
MATH 1212	Survey of Calculus	4
STAT 3111	Statistical Tools For Decision Making	3
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1600	Introduction to Technical Communication	3
IS&T 4654	Introduction to Web Design and Digital Media Studies	3

¹ Any course in the following areas: Biology, Chemistry, Geology, Geological Engineering, Physics

² Mathematical Science is any MATH, STAT, COMPSCI or IST course not otherwise covered in the degree program
For definition of science, refer to footnote 1.

³ Any course in the following areas not used for other degree requirements: Art, Economics, English, Foreign Language, History, Literature, Music, Philosophy, Political Science, Psychology, Sociology, Theater

Common Core Courses and Management

IS&T 1750	Introduction to Management Information Systems	3
IS&T 1551	Implementing Information Systems: User Perspective	3
IS&T 1552	Implementing Information Systems: Data Perspective	3
ERP 2110	Introduction to Enterprise Resource Planning	3
BUS 1210	Financial Accounting	3
FINANCE 2150	Corporate Finance I	3
MKT 3110	Marketing	3
BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 5980	Business Models for Entrepreneurship and Innovation	3
BUS 2910	Business Law	3
BUS 3220	Managerial Accounting	3
BUS 5360	Business Operations	3
BUS 5580	Strategic Management	3
MKT 5310	Digital Marketing and Promotions	3
BUS 3115	Introduction to Teambuilding and Leadership	3
BUS 5111	Business Negotiations	3

Education

EDUC 1040	Perspectives In Education	2
EDUC 1174	School Organization and Administration For Teachers	2
EDUC 2310	Education Of The Exceptional Child	3
EDUC 3216	Instructional Literacy in the Content Area	3
ENGLISH 3170	Teaching And Supervising Reading and Writing	3
EDUC 3280	Instructional Strategies in the Content Area	3
EDUC 3290	Coordination of Cooperative Education	3
EDUC 3298	Teacher Field Experience III	1
EDUC 3340	Assessment of Student Learning	3
EDUC 4298	Student Teaching Seminar	1
EDUC 1104	Teacher Field Experience I	1

EDUC 1164	Teacher Field Experience II	2
EDUC 4299	Student Teaching	12

Minors

You must see the department advisor and complete a minor application before beginning your minor. Requirements change over time. You will be held to the requirements in force at the time you apply for the minor. Postponing your application for the minor may result in you having to take additional courses to complete the minor. At least six (6) hours of the minor course work must be taken in residence at Missouri S&T.

Minor in Artificial Intelligence and Machine Learning in Business

The Minor requires 15 credit hours, as follows:

BUS 5730	Machine Learning and Artificial Intelligence for Business	3
IS&T 5535	Machine Learning Algorithms and Applications	3
IS&T 3420	Introduction to Data Science and Management	3
And two courses from the following list:		6
STAT 3111	Statistical Tools For Decision Making	
IS&T 3333	Data Networks and Information Security	
IS&T 3343	Systems Analysis	
IS&T 5420	Business Analytics and Data Science	
IS&T 5450	Introduction to Information Visualization	
IS&T 5520	Data Science and Machine Learning with Python	
ERP 5410	Use of Business Intelligence	

Minor in Business

The minor in business and management systems requires the following 15 hours of coursework:

FINANCE 2150	Corporate Finance I	3
ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
or BUS 1414	The Inclusive Workplace	
BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 1210	Financial Accounting	3
MKT 3110	Marketing	3

Minor in Business Applications and Software Development

The Minor requires 15 credit hours, as follows:

Required Courses:		6
IS&T 3420	Introduction to Data Science and Management	
IS&T 5680	Digital Media Development and Interactive Design	

And three courses from the following list:

IS&T 1552	Implementing Information Systems: Data Perspective	9
or IS&T 1562	Java and Data Structures	
IS&T 3131	Computing Internals and Operating Systems	
IS&T 3423	Database Management	
IS&T 3443	Database Applications in Business	
ERP 5240	Enterprise Application Development and Software Security	
IS&T 5520	Data Science and Machine Learning with Python	

Minor in Cybersecurity Management and Information Assurance

This minor requires the following 15 hours of coursework:

The following three courses are required:

BUS 5910	Privacy and Information Security	3
IS&T 5780	Human and Organizational Factors in Cybersecurity	3
IS&T 3333	Data Networks and Information Security	3

Two of the following courses must also be taken:

ERP 5240	Enterprise Application Development and Software Security	6
IS&T 3420	Introduction to Data Science and Management	
IS&T 4641	Digital Commerce and IoT Analytics	
IS&T 5335	Fundamentals of Mobile Technology for Business	

Minor in Digital Supply Chain Management

The minor in digital supply chain management requires the following 15 hours of coursework:

BUS 5360	Business Operations	3
or MECH ENG 3653	Manufacturing	
ERP 5310	Supply Chain Management Systems in an ERP Environment	3
ERP 4610	Customer Relationship Management in ERP Environment	3
or MECH ENG 5760/ Probabilistic Engineering Design		
AERO ENG 5760		
Two courses from the following list: *		6
ERP 5410	Use of Business Intelligence	
ERP 5110	Enterprise Resource Planning Systems Design and Implementation	
MECH ENG 5708	Rapid Product Design And Optimization	
MECH ENG 5656	Design For Manufacture	
MECH ENG 5757/ ENG MGT 5515	Integrated Product And Process Design	
MECH ENG 5763	Computer Aided Design: Theory and Practice	

* Non business and information technology students must select ERP 5110 as one of the two electives.

Minor in Electronic and Social Commerce

The minor in electronic and social commerce requires the following 15 hours of coursework:

IS&T 4641	Digital Commerce and IoT Analytics	3
BUS 1414	The Inclusive Workplace	3
Three courses from the following list:		9
IS&T 5251	Management and Leadership of Technological Innovation	
IS&T 5335	Fundamentals of Mobile Technology for Business	
IS&T 5652	Advanced Web Development	
IS&T 5168	Law and Ethics in E-Commerce	
IS&T 5885	Human-Computer Interaction and User Experience	
IS&T 5886	Prototyping Human-Computer Interactions	
MKT 5310	Digital Marketing and Promotions	
MKT 4580	Marketing Strategy	

Minor in Enterprise Resource Planning (ERP)

The minor in ERP requires the following 15 hours of coursework:

BUS 1210	Financial Accounting	3
ERP 2110	Introduction to Enterprise Resource Planning	3
ERP 5110	Enterprise Resource Planning Systems Design and Implementation	3

Six credit hours of electives from any other ERP-designated courses at the 4000-level or above

Total Credits 15

Minor in Entrepreneurship

The minor in entrepreneurship requires the following 15 hours of coursework:

BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 5980	Business Models for Entrepreneurship and Innovation	3
MKT 5310	Digital Marketing and Promotions	3
Two courses from the following list:		6
BUS 1414	The Inclusive Workplace	
BUS 5150	Customer Focus and Satisfaction	
BUS 5580	Strategic Management	
IS&T 4641	Digital Commerce and IoT Analytics	
IS&T 4654	Introduction to Web Design and Digital Media Studies	
IS&T 5251	Management and Leadership of Technological Innovation	
IS&T 5335	Fundamentals of Mobile Technology for Business	
IS&T 5886	Prototyping Human-Computer Interactions	
ENG MGT 5511	Technical Entrepreneurship	
ENG MGT 5411	Engineering Design Optimization	

Minor in Finance

The minor in finance requires the following 15 hours of coursework:

ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
or BUS 1414	The Inclusive Workplace	
FINANCE 2150	Corporate Finance I	3
and three courses from the following:		9
BUS 5230	Financial Statement Analysis	
FINANCE 5160	Corporate Finance II	
FINANCE 5260	Investments I	
FINANCE 5310	Financial Technology and Analytics	
Total Credits		15

Minor in Financial Technology, Analytics and Transformation

The Minor requires 15 credit hours, as follows:

Required Courses:		6
FINANCE 2150	Corporate Finance I	
FINANCE 5310	Financial Technology and Analytics	
One or more of the following courses must be taken:		3
IS&T 3420	Introduction to Data Science and Management	
BUS 5230	Financial Statement Analysis	
One or more of the following courses must be taken:		6
IS&T 4641	Digital Commerce and IoT Analytics	
IS&T 5780	Human and Organizational Factors in Cybersecurity	
IS&T 5520	Data Science and Machine Learning with Python	
ERP 5210	Performance Dashboard, Scorecard and Data Visualization	
ERP 5410	Use of Business Intelligence	
FINANCE 5160	Corporate Finance II	
FINANCE 5260	Investments I	

Minor in Information Science and Technology

The minor in information science and technology requires the following 15 hours of coursework:

IS&T 1750 Introduction to Management Information Systems

IS&T 1551 Implementing Information Systems: User Perspective or IS&T 1561 Algorithms and Programming with Java

IS&T 1552 Implementing Information Systems: Data Perspective or IS&T 1562 Java and Data Structures

ERP 2110 Introduction to Enterprise Resource Planning

One other IS&T or ERP course at the 2000 level or above.

Minor in Management

The minor in management requires the following 15 hours of coursework:

BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 1414	The Inclusive Workplace	3
Three courses from the following list:		9
BUS 2910	Business Law	
BUS 3115	Introduction to Teambuilding and Leadership	
BUS 5111	Business Negotiations	
BUS 5150	Customer Focus and Satisfaction	
BUS 5360	Business Operations	
BUS 5470	Human Resource Management	
BUS 5580	Strategic Management	
BUS 5910	Privacy and Information Security	
IS&T 4261	Information Systems Project Management	
ENG MGT 3320	Introduction to Project Management	

Minor in Marketing

The minor in marketing requires the following 15 hours of coursework:

ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
or BUS 1414	The Inclusive Workplace	
MKT 3110	Marketing	3
Three courses from the following list:		9
MKT 3210	Consumer Behavior	
MKT 4580	Marketing Strategy	
MKT 5310	Digital Marketing and Promotions	
MKT 5320	Marketing for Non-Profits	
ERP 4610	Customer Relationship Management in ERP Environment	
MKT 5410	Big Data Consumer Analytics	
Other marketing electives approved by the department (MKT 3000 and above)		

Minor in Mobile Business and Digital Transformation

The minor in mobile business and technology requires the following 15 hours of coursework:

Two or three of the following courses must be taken:		9
IS&T 4641	Digital Commerce and IoT Analytics	
IS&T 4654	Introduction to Web Design and Digital Media Studies (Two or three of the following courses must be taken:)	
IS&T 5335	Fundamentals of Mobile Technology for Business	
ERP 5240	Enterprise Application Development and Software Security	
Two or three of the following courses must be taken:		6
BUS 1414	The Inclusive Workplace	
IS&T 3333	Data Networks and Information Security	
IS&T 5652	Advanced Web Development	
IS&T 5886	Prototyping Human-Computer Interactions	
ERP 4610	Customer Relationship Management in ERP Environment	
ERP 5310	Supply Chain Management Systems in an ERP Environment	
ERP 5210	Performance Dashboard, Scorecard and Data Visualization	
MKT 5310	Digital Marketing and Promotions	
IS&T 5680	Digital Media Development and Interactive Design	

Pre MBA Minor

The minor in pre MBA will prepare students to enter an accredited MBA program at Missouri S&T or elsewhere. This minor requires the following 39 hours of coursework:

PSYCH 1101	General Psychology	3
MATH 1208	Calculus With Analytic Geometry I	5

or MATH 1212	Survey of Calculus	
or MATH 1214	Calculus I	
ECON 1300/STAT 1111	Business And Economic Statistics I	3
or STAT 1115	Statistics For The Social Sciences I	
or STAT 3111	Statistical Tools For Decision Making	
or STAT 3113	Applied Engineering Statistics	
or STAT 3115	Engineering Statistics	
or STAT 3117	Introduction To Probability And Statistics	
ECON 1100	Principles Of Microeconomics	3
ECON 1200	Principles Of Macroeconomics	3
BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 1210	Financial Accounting	3
BUS 3220	Managerial Accounting	3
BUS 2910	Business Law	3
BUS 5360	Business Operations	3
MKT 3110	Marketing	3
FINANCE 2150	Corporate Finance I	3
IS&T 1750	Introduction to Management Information Systems	3

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Randy Lawrence Canis, Adjunct Professor
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PHD Georgia State University

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PHD University of Michigan Ann Arbor

Hanqing Fang, Assistant Professor
PHD Mississippi State University

Caroline Fisher, Professor Emeritus
PHD Bowling Green State University

Nobuyuki Fukawa, Associate Professor
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PHD Brown University

Ray Kluczny, Associate Professor Emeritus
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Kellie Kowalski, Adjunct Instructor
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PHD University of British Columbia

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PHD Saint Louis University

Wen-Bin Yu, Associate Professor
PHD University of Louisville

Hongxian Zhang, Associate Professor
PHD University of Texas at San Antonio

BUS 1000 Special Problems (IND 0.0-6.0)
Problems or readings on specific subjects or projects in the department.
Consent of instructor required.

BUS 1001 Special Topics (IND 0.0-6.0)
This is designed to give the department an opportunity to test a new course. Variable title.

BUS 1110 Introduction to Management and Entrepreneurship (LEC 3.0)
The course provides an introduction to the basic concepts of management and entrepreneurship to provide an awareness of what functions and challenges are faced by managers and entrepreneurs in today's global environment. Applications of the concepts to the organization, operations, and resources are discussed. Appropriate for all majors.

BUS 1110H Intro Mgt and Entrepreneurship-Honors (LEC 3.0)

BUS 1210 Financial Accounting (LEC 3.0)
This course is an introduction to financial accounting and its significant role in making sound business decisions. Emphasis is on what accounting information is, why it is important, and how it is used to make strategic economic decisions.

BUS 1414 The Inclusive Workplace (LEC 3.0)
This course will cover topics such as corporate social responsibility, ethics, diversity and inclusion (i.e. national culture, race, religion, age, gender, sexual orientation, and ability). Students will learn to recognize their own biases, understand the benefits of inclusion, and be exposed to a few strategies utilized to achieve an inclusive workplace.

BUS 1810 Introduction to College Success (LEC 1.0)
This course teaches essential skills for success in Business and Information Technology and a student's future career. The course creates a sense of community in the department and prepares the student for the business world.

BUS 1811 Introduction to College Success II (LAB 0.50)

A continuation of BUS 10. Students learn essential skills for success in Business and Information Technology. The course creates a sense of community in the department and prepares the students for the business world.

BUS 2000 Special Problems (IND 0.0-6.0)

Problems or readings on specific subjects or projects in the department. Consent of instructor required.

BUS 2001 Special Topics (LEC 0.0-6.0)

This is designed to give the department an opportunity to test a new course. Variable title.

BUS 2002 Cooperative Training in Business (IND 0.0-6.0)

On-the-job experience gained through cooperative education with industry with credit arranged through departmental co-op advisor. Grade received depends on quality of reports submitted and work supervisors's evaluation. Prerequisite: Completed 30 hours toward degree.

BUS 2910 Business Law (LEC 3.0)

This course is an introduction to the nature and meaning of law and the legal environment of business. Topics include the legal process, sources of law, and institutions.

BUS 3000 Special Problems (IND 0.0-6.0)

Problems or readings on specific subjects or projects in the department. Consent of instructor required.

BUS 3105 Management and Business Law Essentials (LEC 1.5)

This course is an introduction to the essentials of management and business law for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Prerequisite: Senior or Junior Standing; 3.0 GPA required.

BUS 3115 Introduction to Teambuilding and Leadership (LEC 3.0)

This course covers an introduction to leadership styles, principles, models, issues, and applications through analytical and intellectual examination. Key components of teams are introduced, with opportunities to practice and develop both leadership and teambuilding skills.

BUS 3205 Accounting Essentials (LEC 1.5)

This course is an introduction to the essentials of financial and managerial accounting for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Prerequisite: Senior or Junior standing; 3.0 GPA required.

BUS 3220 Managerial Accounting (LEC 3.0)

Emphasizes internal use of accounting information in establishing plans and objectives, controlling operations, and making decisions involved with management of an enterprise (the determination of costs relevant to a specific purpose such as inventory valuation, control of current operation, or special decisions). Prerequisites: Bus 1210 or Eng Mgt 2211.

BUS 3305 Operations Management Essentials (LEC 1.5)

This course is an introduction to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Prerequisite: Senior or Junior Standing; 3.0 GPA required.

BUS 3705 Management Information Systems Essentials (LEC 1.5)

This course is an introduction to the essentials of management information systems for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Prerequisite: Senior or Junior Standing; 3.0 GPA required.

BUS 3805 Mathematics and Statistics Essentials (LEC 1.5)

This course is an introduction to the essentials of mathematics and statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Prerequisite: Senior or Junior Standing; 3.0 GPA required.

BUS 4000 Special Problems (IND 0.0-6.0)

Problems or readings on specific subjects or projects in the department. Consent of instructor required.

BUS 4001 Special Topics (LEC 0.0-6.0)

This is designed to give the department an opportunity to test a new course. Variable title.

BUS 4099 Undergraduate Research (IND 0.0-6.0)

Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six credit hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

BUS 4675 International Business (LEC 3.0)

This survey course will deal with business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy.

BUS 4970 Senior Business Design I (LEC 1.0)

In this course, students will become familiar with the principles of entrepreneurship; learn about the basic purpose, content and structure of business plans; and develop business presentation skills through practice. At the end of the semester, student teams will give presentations to a bank in an attempt to secure a loan to run the business the following semester. Prerequisite: Senior Standing.

BUS 4980 Senior Business Design II (LEC 2.0)

In this course, students will be expected to carry out the business plans created in Bus 4970. Progress reports are submitted roughly every 3 weeks during the semester. At the end of the semester, students terminate the business organization and profits are donated to a non-profit organization in the team's name. Prerequisite: Bus 4970.

BUS 5000 Special Problems (IND 0.0-6.0)

Problems or readings on specific subjects or projects in the department. Prerequisite: Admission to the MBA program.

BUS 5001 Special Topics (LEC 0.0-6.0)

This is designed to give the department an opportunity to test a new course. Variable title.

BUS 5040 Oral Examination (IND 0.0)

After completion of all other requirements, oral examinations for on-campus M.B.A./Ph.D. students may be processed during intersession. Off-campus M.B.A. students must be enrolled in oral examination and must have paid an oral examination fee at the time defense/oral examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

BUS 5080 Practicum (IND 0.0-6.0)

This course is similar to the Bus 5085 Internship course. The difference is that this course is intended for students who are already employed by an organization for whom they wish to continue working. Prerequisite: Bus Core.

BUS 5085 Internship (IND 0.0-6.0)

Students apply critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employer. Activities will vary depending on the student's background and the setting. Requires major report and formal presentation to sponsoring organization. Prerequisite: Graduate standing.

BUS 5099 Research (IND 0.0-9.0)

Research investigation of an advanced nature leading to a major report suitable for publication in a journal or in a conference proceedings. Prerequisite: Permission of the instructor.

BUS 5105 Graduate Management and Business Law Essentials (LEC 1.5)

This course is an introduction to the essentials of management and business law for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in Business, IS&T, or Economics. Additional case study or report required. Prerequisite: Bachelor Degree.

BUS 5111 Business Negotiations (LEC 3.0)

The purpose of this course is to understand the practices and processes of negotiation for negotiating successfully in a variety of settings. The course is designed to be relevant to the broad spectrum of negotiation problems faced by managers, consultants, etc. Because almost everyone negotiates all the time, this course is relevant to almost any student. Prerequisites: Junior standing or above.

BUS 5115 Introduction to Individual and Group Dynamics in Business (LEC 3.0)

This course will cover contemporary theories of business leadership styles and group dynamics. Leadership theories, group dysfunction/function, positive group interactions, change impacts, the importance of business ethics as well as the role of gender and culture on the group will be examined.

BUS 5150 Customer Focus and Satisfaction (LEC 3.0)

Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done. Prerequisites: Mkt 3110 or Mkt 3105 or Eng Mgt 3510. (Co-listed MKT 5150).

BUS 5205 Graduate Accounting Essentials (LEC 1.5)

This course is an introduction to the essentials of financial and managerial accounting for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in Business, IS&T, or Economics. Additional case or report required. Prerequisite: Bachelor Degree.

BUS 5230 Financial Statement Analysis (LEC 3.0)

Analysis and interpretation of financial statements for profitability analysis, credit analysis, and other business analyses that rely on financial data. Introduces emerging roles of accounting analytics. Illustrates data analytics concepts and techniques to detect earning management, predict fraud, and to provide insights into other business strategies. Prerequisite: BUS 1210 or graduate standing and financial accounting knowledge.

BUS 5305 Graduate Operations Management Essentials (LEC 1.5)

This course is an introduction to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in Business, IS&T, or Economics. Additional case study or report required. Prerequisite: Bachelor Degree.

BUS 5360 Business Operations (LEC 3.0)

This course examines the concepts, processes, and institutions that are fundamental to an understanding of business operations within organizations. Emphasis is on the management and organization of manufacturing and service operations and the application of quantitative methods to the solution of strategic, tactical and operational problems. Prerequisites: BUS 1210 or ENG MGT 2211; at least Junior standing; and one of the following: STAT 1111, STAT 1115, STAT 3111, STAT 3113, STAT 3115, or STAT 3117.

BUS 5470 Human Resource Management (LEC 3.0)

The course examines employee selection, performance appraisal, training and development, compensation, legal issues, and labor relations.

Prerequisite: Bus 1110.

BUS 5580 Strategic Management (LEC 3.0)

Study of the formulation and implementation of corporate, business and functional strategies designed to achieve organizational objectives. Case studies and research reports may be used extensively.

Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing.

BUS 5705 Graduate Management Information Systems Essentials (LEC 1.5)

This course is an introduction to the essentials of management information systems for running a business. It is designed for students planning to enter the MBA program. Credit in this course cannot be applied to any major or minor in Business, IS&T, or Economics. Additional case or report required. Prerequisite: Bachelor Degree.

BUS 5730 Machine Learning and Artificial Intelligence for Business (LEC 3.0)

Explores various approaches to machine learning and artificial intelligence, along with their numerous applications in business.

Describes some of the many technological approaches to business problems that are considered part of machine learning and artificial intelligence, such as neural networks and deep learning. Prerequisites: IS&T 1750; or Graduate Standing, understanding of management information systems.

BUS 5805 Graduate Mathematics and Statistics Essentials (LEC 1.5)

This course is an introduction to the essentials of mathematics and statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in Business, IS&T, or Economics. Additional case study or report required. Prerequisite: Bachelor Degree.

BUS 5896 Project Research (IND 0.0-9.0)

The research project will involve students applying research techniques and discipline specific knowledge working on a project designed by the advisor, often working with a business organization. Requires major report and formal presentation to sponsoring organization. Prerequisite: Permission of the instructor.

BUS 5910 Privacy and Information Security (LEC 3.0)

Explores issues concerning the use, disclosure, and protection of information (personal, organizational, health, and financial) from a legal perspective. A focus on understanding, planning, protecting, and responding to data breaches and other information risk and threats. Case studies based on litigation are reviewed and analyzed. Assumes MIS familiarity.

BUS 5980 Business Models for Entrepreneurship and Innovation (LEC 3.0)

This course uses problem based learning to expand student insight into the nature, development, and application of business models. It increases the practical skills and knowledge required to generate original models of value creation for both entrepreneurial start-ups and corporate innovation. Prerequisite: Senior or graduate standing.
