The Department of Systems and Technology prepares students for careers involving the planning, analysis, and execution of processes related to the movement of passengers, product, and information. The professional programs within the Department are designed to provide students with the technical skills and knowledge needed to be effective decision makers for their organizations. The professional programs available are Information Systems Management (ISMN), Business Analytics (BUAL), Supply Chain Management (SCMN), Aviation Management (AVMG), and Professional Flight Management (AVMF). Information regarding careers, internships, scholarships, and student organizations is available through the program coordinators. College of Business pre-requisites are strictly enforced. Junior standing and compliance with College of Business academic standards are required for all 3000 and above level courses.

Information Systems Management
The Information Systems Management program provides education and training so that students can help lead organizational change projects in transforming and improving business processes and in designing and creating new, innovative digital products and services. The program is designed to enable students to meet the challenges that are poised by Information Technology Management in both public sector and for-profit organizations. Because information systems are critical to all aspects of every organization, Information System Management majors are in great demand in the marketplace. Information systems students can focus their study in the areas of business analytics, information security, and/or technology infrastructure.

Business Analytics
The Business Analytics Program prepares students for careers that use data to support solve problems and exploit opportunities in a data-driven manner. Students learn skills in a natural progression including managing data, uncovering patterns in data, developing predictive models, and using these models to make better decisions. Business Analytics skills are in demand across a wide range of industries including healthcare, marketing, finance, consulting, transportation, and information technology. Students are encouraged to develop expertise in a functional business discipline such as marketing or finance using elective coursework.

Supply Chain Management
The Supply Chain Management program combines logistics and operations management knowledge to provide a comprehensive education for students interested in careers with manufacturers, retailers, consultancies, and logistics services providers. The primary goal of the program is to provide a practical understanding of procurement, operations, logistics, and transportation so that graduates will excel in entry-level management positions, graduate school, and future opportunities.

Aviation Management
The Aviation Management program is accredited by Aviation Accreditation Board International. The program provides a technical management background and specialization in aviation leading to careers with airlines, aircraft manufacturers, airports, and other segments of the aviation industry. Individuals interested in registering in the Aviation Management concentration are advised to contact the program director for Aviation Management in the College of Business for proper counseling and classification.

Professional Flight Management
The Professional Flight Management program is accredited by Aviation Accreditation Board International. The program provides the technical management background and specialization as does the Aviation Management concentration. Additionally, students pursuing the Professional Flight Management concentration are required to earn the pilot ratings that are required to meet the qualifications to be hired as a pilot with the airlines or corporate aviation. The pilot courses within the Professional Flight Management curriculum require students to obtain and maintain a Federal Aviation Administration medical certificate. The pilot courses also incur additional fees beyond Auburn University tuition. See the program coordinator for further details.

Private Pilot Certification (ASEL)
AVMF 2171 and AVMF 2181

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Minimum Hours</th>
<th>Course Maximum Hours</th>
<th>Maximum Rate/Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual CE-172-R or S</td>
<td>30.0</td>
<td>77.0</td>
<td>$230.00/hr.</td>
</tr>
<tr>
<td>Solo CE-172-R or S</td>
<td>5.0</td>
<td>8.0</td>
<td>$175.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>15.0</td>
<td>69.0</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>
Private Pilot Training Cost: Minimum $8,600.00 Maximum: $22,905.00

AVMF 2171 PRIVATE PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2150 or Departmental approval. Dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee.

AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2171 or Departmental approval. Continuation of dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee.

Instrumental Rating - Airplane (ASE)
AVMF 2241 and AVMF 2251

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
<th>Maximum Rate/ Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual CE-172-SP</td>
<td>35.0</td>
<td>85.0</td>
<td>$255.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>17.5</td>
<td>66.5</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>

Instrument Rating – Airplane Training Cost: Minimum $9,887.50 Maximum: $25,332.00

AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2230. Instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Practical Test. Special fees.

AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2241. Continuation of instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Practical Test. Special fee.

Commercial Pilot Certification (AMEL)
AVMF 2261, AVMF 2271, and AVMF 4271

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
<th>Maximum Rate/ Hour</th>
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</thead>
<tbody>
<tr>
<td>Dual CE-172SP Skyhawk</td>
<td>85.0</td>
<td>$85.00</td>
<td>$255.00/hr.</td>
</tr>
<tr>
<td>PA-44-180 Seminole</td>
<td>35.0</td>
<td>60.0</td>
<td>$455.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>109.0</td>
<td>121.5</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>

Commercial Pilot (AMEL) Training Cost: Minimum $43,595.00 Maximum: $55,657.50

AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2251. Flight training toward the Commercial Pilot Certificate. Special fee.

AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2261. Continuation of flight training towards the Commercial Pilot Certificate. Emphasis on advanced commercial maneuvers, complex airplane systems, and cross country flying. Special fee.

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and and techniques of multi-engine aircraft operations. Sufficient classroom and flight instruction is given under FAA Part 141 to qualify for the FAA Multi-Engine Rating. Special Fees.

Commercial Pilot Certification (ASEL)
AVMF 2261, AVMF 2271, and AVMF 4271

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
<th>Maximum Rate/ Hour</th>
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</thead>
<tbody>
<tr>
<td>Dual CE-172 SP</td>
<td>85.0</td>
<td>85.0</td>
<td>$255.00/hr.</td>
</tr>
<tr>
<td>PA-28R-201 Arrow</td>
<td>35.0</td>
<td>60.0</td>
<td>$270.00/hr.</td>
</tr>
<tr>
<td>Pre/Post-flight briefing</td>
<td>108.5</td>
<td>121.0</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>

Commercial Pilot (ASEL) Training Cost: Minimum $37,092.50 Maximum: $44,530.00

AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2251. Flight training toward the Commercial Pilot Certificate. Special fee.
AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2261. Continuation of flight training towards the Commercial Pilot Certificate. Emphasis on advanced commercial maneuvers, complex airplane systems, and cross country flying. Special fee.

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and techniques of multi-engine aircraft operations. Sufficient classroom and flight instruction is given under FAA Part 141 to qualify for the FAA Multi-Engine Rating. Special Fees.

**Additional Airplane Class Rating (AMEL)**

AVMF 4271

<table>
<thead>
<tr>
<th></th>
<th>Course Minimum Hours</th>
<th>Course Maximum Hours</th>
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</thead>
<tbody>
<tr>
<td>PA-44-180 Seminole</td>
<td>35.0</td>
<td>60.0</td>
<td>$455.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>28.0</td>
<td>40.5</td>
<td>$55.00/hr.</td>
</tr>
<tr>
<td>Ground School</td>
<td>21.0</td>
<td>21.0</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>

**Commercial Pilot (AMEL) Training Cost:** Minimum $18,620.00  Maximum: $30,682.50

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and techniques of multi-engine aircraft operations. Sufficient classroom and flight instruction is given under FAA Part 141 to qualify for the FAA Multi-Engine Rating. Special Fees.

**Flight Instructor Certification (ASE)**

AVMF 4281 and AVMF 4291

<table>
<thead>
<tr>
<th></th>
<th>Course Minimum Hours</th>
<th>Course Maximum Hours</th>
<th>Maximum Rate/Hour</th>
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</thead>
<tbody>
<tr>
<td>Dual CE-172-SP</td>
<td>14.0</td>
<td>19.0</td>
<td>$255.00/hr.</td>
</tr>
<tr>
<td>PA-28R-201 Arrow</td>
<td>11.0</td>
<td>21.0</td>
<td>$270.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>51.5</td>
<td>64.0</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>

**Flight Instructor (ASE) Training Cost:** Minimum $9,372.50  Maximum: $14,035.00

AVMF 4281 FLIGHT INSTRUCTION TRAINING (3) LAB. 6. Discussion, instruction and arranged practice in flight instruction in preparation for the FAA Flight Instructor Certificate. Special fee.

**Flight Instructor Certification (IA)**

AVMF 4351

<table>
<thead>
<tr>
<th></th>
<th>Course Minimum Hours</th>
<th>Course Maximum Hours</th>
<th>Maximum Rate/Hour</th>
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<tbody>
<tr>
<td>Dual CE-172-SP</td>
<td>15.0</td>
<td>40.0</td>
<td>$255.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>32.0</td>
<td>44.5</td>
<td>$55.00/hr.</td>
</tr>
<tr>
<td>Ground School</td>
<td>20.0</td>
<td>21.0</td>
<td>$55.00/hr.</td>
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</table>

**Flight Instructor (IA) Training Cost:** Minimum $6,740.00  Maximum: $13,802.50


**Flight Instructor Certification (AME)**

AVMF 4371

<table>
<thead>
<tr>
<th></th>
<th>Course Minimum Hours</th>
<th>Course Maximum Hours</th>
<th>Maximum Rate/Hour</th>
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</thead>
<tbody>
<tr>
<td>PA-44-180 Seminole</td>
<td>25.0</td>
<td>50</td>
<td>$455.00/hr.</td>
</tr>
<tr>
<td>Pre/post flight briefing</td>
<td>12.5</td>
<td>44.5</td>
<td>$55.00/hr.</td>
</tr>
<tr>
<td>Ground School</td>
<td>20.0</td>
<td>21.0</td>
<td>$55.00/hr.</td>
</tr>
</tbody>
</table>
Flight Instructor (AME) Training Cost: Minimum $13,162.50 Maximum: $26,352.50


Majors

- Aviation Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/aviationmanagement_major)
- Business Analytics (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/businessanalytics_major)
- Information Systems Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/informationsystemsmanagement_major)
- Professional Flight Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/professionalflightmanagement_major)
- Supply Chain Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/supplychainmanagement_major)

Minors

- Aviation Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/aviationmanagement_minor)
- Business Analytics (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/businessanalytics_minor)
- Business-Engineering-Technology (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/businessengineeringtechnology_minor)
- Information Assurance (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/informationassurance_minor)
- Information Systems Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/informationsystemsmanagement_minor)
- Professional Flight Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/professionalflightmanagement_minor)
- Supply Chain Management (http://bulletin.auburn.edu/undergraduate/collegeofbusiness/departmentofaviationandsupplychainmanagementavsc/supplychainmanagement_minor)

Aviation Management Courses

AVMG 1010 INTRODUCTION TO AVIATION (3) LEC. 3. Orientation to aviation management career opportunities. The history of significant events and accomplishments in the attempt to move through the air and space.

AVMG 2050 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS (UAS) (3) LEC. 3. Orientation to unmanned aircraft systems with emphasis on pilot and operating rules, National Airspace System (NAS) integration, safety, and commercial uses of Small UAS (sUAS).

AVMG 2600 HUMAN FACTORS IN AVIATION (3) LEC. 3. Principles of human cognitive and physical performance, and man/machine interface and design, in aviation. Study of information processing, workload management, situational awareness, and decision-making.

AVMG 3050 AVIATION WEATHER (3) LEC. 3. Pr. AVMG 1010. Meteorology as it applies to the operation of aircraft with emphasis on observation of weather elements and interpretation of flight planning weather information.

AVMG 3140 AIR TRANSPORT INDUSTRY DEVELOPMENT (3) LEC. 3. Pr. AVMG 1010. Principles and analysis of air transport industry development, its regulatory environment, and associated certification processes.

AVMG 3200 APPLIED ANALYSIS IN TRANSPORTATION (3) LEC. 3. Pr. AVMG 1010. Development of principles required in economic analysis.

AVMG 3600 AIRCRAFT MAINTENANCE MANAGEMENT (3) LEC. 3. Pr. AVMG 1010. Aircraft maintenance program fundamentals, procedures, and practices, with an emphasis on regulatory requirements.
AVMG 3810 PROFESSIONAL DEVELOPMENT IN AVIATION (1) LEC. 1. SU. AVMG and AVMF majors only. Career planning and preparation for aviation internships and professional experience opportunities.

AVMG 4040 BUSINESS AVIATION MANAGEMENT (3) LEC. 3. Pr. AVMG 1010. Current principles and practices in commercial and business/corporate flight operations including organizational sources of revenue, functions, operation, and typical problems.

AVMG 4060 COMMERCIAL AVIATION SAFETY (3) LEC. 3. Pr. AVMG 3050. Analysis of safety principles and regulatory practices of the FAA, NTSB, and ICAO, emphasizing FAA and ICAO Safety Management Systems

AVMG 4080 AIR TRANSPORT PLANNING (3) LEC. 3. Pr. AVMG 5090. Management decision making involved in selection of equipment, routes and the establishment of rates by certified and non-certified air carriers.

AVMG 4130 AIRPORT MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. Practices in management of a civil public airport, including organization, functions, operations, sources of revenue, funding, maintenance and administration.

AVMG 4140 AIRPORT PLANNING AND DESIGN (3) LEC. 3. Pr. AVMG 4130. Principles and procedures pertaining to planning airport facilities required to meet the immediate and future air transportation of a community or region.

AVMG 4190 AIR SPACE MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. Air traffic control procedures, facilities, center, and operations. Theory of radar operation and air traffic separation.

AVMG 4200 AIR CARGO OPERATIONS (3) LEC. 3. Pr. AVMG 1010. Domestic and international air cargo operations with emphasis on cargo economics, equipment, domestic and international regulatory activities, agents, operational techniques, systems and problems.

AVMG 4920 INTERNSHIP IN AVIATION MANAGEMENT (1-6) INT. Practical on-the-job training under supervision with aviation agencies. Written reports are required by designated faculty supervisors. Course may be repeated for a maximum of 6 credit hours.

AVMG 4967 HONORS SPECIAL PROBLEMS (1-3) LEC. Pr. Honors College. Honors College. Special topics presented to Honors College students. Course may be repeated for a maximum of 3 credit hours.

AVMG 4997 HONORS THESIS (1-3) IND. Pr. Honors College. Honors College. Thesis for Honors College students. Course may be repeated for a maximum of 3 credit hours.

AVMG 5090 AVIATION LAW AND POLICY (3) LEC. 3. Pr. AVMG 1010. The legal structure of aviation including federal, local and state statutes, contracts, insurance and liability, regulatory statutes, and case law.

AVMG 5170 AIRLINE MANAGEMENT (3) LEC. 3. Pr. AVMG 1010 and AVMG 3050. Airline manufacturing, economic, and operational/managerial issues, research and development and competition issues and a survey of the world’s major airlines in terms of their management strategies and style.

AVMG 5180 GLOBAL AIR TRANSPORTATION MANAGEMENT (3) LEC. 3. Pr. AVMG 3140 and AVMG 3200 and Junior standing. The economic development of international air transportation from its beginnings to present day. Explores a wide range of international aviation issues such as bilateral and open skies agreements, airline mega alliances, and joint ventures.

AVMG 5970 SPECIAL TOPICS IN AVIATION MANAGEMENT (3) LEC. 3. Investigation of current issues in the aviation industry.

AVMG 6090/6096 AVIATION LAW AND POLICY (3) LEC. 3. Departmental approval. The legal structure of aviation including federal, local, and state statutes, contracts, insurance and liability, regulatory statutes and case law.

AVMG 6170/6176 AIRLINE MANAGEMENT (3) LEC. 3. Departmental approval. Airline manufacturing, economic, and operation/managerial issues, research and development and competition issues and a survey of the world’s major airlines in terms of their management strategies and style.

AVMG 6180/6186 GLOBAL AIR TRANSPORTATION MANAGEMENT (3) LEC. 3. Pr. AVMG 3140 and AVMG 3200 or departmental approval. International foreign air carriers, influences of ICAO and IATA, national ownership, determinants of power, operational and management practices, routes and fares/Junior standing.

AVMG 6970/6976 SPECIAL TOPICS AVIATION MNGT (1-3) LEC. 1-3. Departmental approval. Investigation of current issues in the aviation industry. Credit will not be given for both AVMG 5970 and AVMG 6970. Course may be repeated for a maximum of 9 credit hours.
AVMG 7930/7936 SPECIAL PROBS IN AVIATION MNGT (1-3) LEC. 1-3. Departmental approval. Special problems and current status of the aviation and aerospace industries are analyzed through a problem solving exercise. Course may be repeated for a maximum of 6 credit hours.

Business Analytics Courses

BUAL 2600/2603 BUSINESS ANALYTICS I (3) LEC. 3. Pr. (MATH 1610 or MATH 1617 or MATH 1680 or MATH 1683) and (P/C COMP 1000 or P/C COMP 1003 or COMP 1AA0). Introduction to analytics in business including use of data to make business decisions, basic predictive business modeling, and communication of analytical results.

BUAL 2650/2653 BUSINESS ANALYTICS II (3) LEC. 3. Pr. BUAL 2600 or STAT 2610 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 3010 or STAT 2513. A second course in quantitative analysis in business including statistical inference, classification analysis, predictive modeling, forecasting, introduction to data mining.

BUAL 4910 PRACTICUM (1-3) PRA. SU. Supervised practical application of business analytics theory and methods. Course may be repeated for a maximum of 3 credit hours.

BUAL 4920 BUSINESS ANALYTICS INTERNSHIP (1-6) INT. SU. The internship program represents an opportunity for students to be exposed to analytics environments first-hand and to integrate this experience with their formal education. The practical nature of the internship facilitates the educational process and provides valuable work experience. Course may be repeated for a maximum of 6 credit hours.

BUAL 5600 PREDICTIVE MODELING I (3) LEC. 3. Pr. BUAL 2600. Introduction to linear models including multiple linear regression and model building in business decision making and applications. Credit will not be given for both BUAL 5600 and BUAL 6600/6606.

BUAL 5610 PREDICTIVE MODELING II (3) LEC. 3. Pr. (BUAL 5600 or BUAL 6600 or BUAL 6606). Basic data mining techniques including neural networks, decision trees, clustering algorithms, linear programs, text and web mining in business setting. Credit will not be given for both BUAL 5610 and BUAL 6610/6616.

BUAL 5650 BIG DATA I (3) LEC. 3. Pr. BUAL 2650. or equivalent. Managing, governing, extracting, merging, and preparing large data sets for analysis.

BUAL 5660 BIG DATA II (3) LEC. 3. Pr. BUAL 5650. Advanced topics in big data management, with emphasis on loading and cleansing the data for analysis. Credit will not be given for both BUAL 5660 and BUAL 6660/6666.

BUAL 5700 BIG DATA INFRASTRUCTURE AND APPLICATIONS (3) LEC. 3. Pr. ISMN 5650. Advanced topics related to big data infrastructure and using these technologies to create data science applications. The course provides deep understanding of various state-of-art data science approaches using different distributed and (or) cloud computing environments. Credit will not be given for both BUAL 5700 and BUAL 6700/6706.

BUAL 5860 COMMUNICATING QUANTITATIVE RESULTS IN BUSINESS (3) LEC. 3. Pr. BUAL 5610 and BUAL 5660. A case-based, project-oriented approach to business decision making based on company's mission and strategic objectives. Credit will not be given for both BUAL 5860 and BUAL 6860/6866.

BUAL 5900 DIRECTED STUDIES (1-3) IND. SU. Faculty led individualized or group-oriented in-depth study of a topic in business analytics. May include literary research, algorithm development, programming, data analysis, or a combination of these. Course may be repeated for a maximum of 6 credit hours.

BUAL 6600/6606 PREDICTIVE MODELING I (3) LEC. 3. Pr. BUAL 2650. Introduction to linear models including multiple linear regression and model building in business decision making and applications. Credit will not be given for both BUAL 5600 and BUAL 6600/6606.

BUAL 6610/6616 PREDICTIVE MODELING II (3) LEC. 3. Pr. (BUAL 5600 or BUAL 6600 or BUAL 6606). Basic data mining techniques including neural networks, decision trees, clustering algorithms, linear programs, text and web mining in business setting. Credit will not be given for both BUAL 5610 and BUAL 6610/6616.

BUAL 6650/6656 BIG DATA I (3) LEC. 3. Pr. BUAL 2650. or equivalent. Managing, governing, extracting, merging, and preparing large data sets for analysis.

BUAL 6660/6666 BIG DATA II (3) LEC. 3. Pr. (BUAL 5650 or BUAL 6650 or BUAL 6656). Advanced topics in big data management, with emphasis on loading and cleansing the data for analysis. Credit will not be given for both BUAL 5600 and BUAL 6600/6606.
BUAL 6860/6866 COMMUNICATING QUANTITATIVE RESULTS IN BUSINESS (3) LEC. 3. Pr. BUAL 6610 or BUAL 6616. A case-based, project-oriented approach to business decision making based on company's mission and strategic objectives. Credit will not be given for both BUAL 5860 and BUAL 6860/6866.

Flight Education Courses

AVMF 2141 FLIGHT ORIENTATION (1) LAB. 2. Pr. 2.25 GPA. Basic flight experience for non-pilots to familiarize aviation majors, engineers, teachers, and other students desiring a limited exposure to flight. Includes ground discussion and aircraft time. Special fee.


AVMF 2171 PRIVATE PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2150 or Departmental approval. Dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee.

AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2171 or Departmental approval. Continuation of dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee.

AVMF 2230 PRINCIPLES OF INSTRUMENT FLIGHT (3) LEC. 3. Pr. AVMF 2181. Instruments, FAA regulations, air traffic procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Knowledge Test. Special fee.

AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2230. Instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Practical Test. Special fee.

AVMF 2250 PRINCIPLES OF COMMERCIAL FLIGHT (3) LEC. 3. Pr. AVMF 2251. FAA regulations, high altitude operations, aerodynamics, commercial flight maneuvers, environmental, ice control, retractable landing gear, and aircraft performance as applied to commercial flying. Preparation for the FAA Commercial Pilot Knowledge Test. Special fee.

AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2241. Continuation of instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Practical Test. Special fee.

AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2251. Flight training toward the Commercial Pilot Certificate. Special fee.

AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2261. Continuation of flight training towards the Commercial Pilot Certificate. Emphasis on advanced commercial maneuvers, complex airplane systems, and cross country flying. Special fee.

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and and techniques of multi-engine aircraft operations. Sufficient classroom and flight instruction is given under FAA Part 141 to qualify for the FAA Multi-Engine Rating. Special Fees.


AVMF 4281 FLIGHT INSTRUCTION TRAINING (3) LAB. 6. Discussion, instruction and arranged practice in flight instruction in preparation for the FAA Flight Instructor Certificate. Special fee.


AVMF 4331 TRANSPORT AIRCRAFT FLIGHT TRAINING (2) LAB. 6. Includes instrument and night instruction, emergency procedures and actual air transportation operations. Preparation for the Airline Transport Pilot Certification, if otherwise qualified. Special fees.


AVMF 4400 APPLIED AERODYNAMICS AND PROPULSION SYSTEMS (3) LEC. 3. Pr. PHYS 1000 or PHYS 1007. Private Pilot Certificate, or Departmental approval. The principles of aerodynamics and propulsion and how aerodynamic factors affecting lift, thrust, drag, in-air performance, stability and flight control.

**Information Systems Management Courses**

ISMN 3040 BUSINESS TELECOM MANAGEMENT (3) LEC. 3. Pr. ISMN 3140 or ISMN 3143. Voice communications and technology and data communications (LAN, WAN, internet broadband), networks, protocols, standards, legislation and project development and management.

ISMN 3070 BUSINESS SYSTEM LOGIC AND MODELING (3) LEC. 3. Concepts, techniques, and tools for discovering, specifying, and modeling business logic are introduced, explored, and applied.

ISMN 3080 PROGRAMMING AND COMPUTER APPLICATIONS (3) LEC. 3. Visual and object-oriented business programming languages are introduced and explored.

ISMN 3140/3143 INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS (2) LEC. 2. The fundamental principles of the structure and management of information systems.

ISMN 3830 DATABASE MANAGEMENT SYSTEMS (3) LEC. 3. Business applications software in a database environment, complex data, and file structures, systems design consideration of global and distributed databases.

ISMN 3840 ANALYSIS OF BUSINESS SYSTEMS (3) LEC. 3. The study and application of tools, techniques, and methodologies to analyze, understand, and model business systems.

ISMN 4090 DIGITAL BUSINESS DESIGN (3) LEC. 3. Pr. ISMN 3830 or MNGT 3830 or MNGT 3833. Students bring together knowledge of digital technologies and their skills in business design and development to create innovative, leading-edge processes, products, and services for today's modern organizations.

ISMN 4850 COMPETITIVE STRATEGIES THROUGH INFORMATION (3) LEC. 3. Emphasizes how competitive strategies for companies are formulated and implemented using a combination of information technologies.

ISMN 4870 DATABASE SERVER FUNDAMENTALS (3) LEC. 3. Pr. ISMN 3830. Database servers as core components of developing n-Tier information technology are discussed. Practical exercises used to demonstrate the process of using QSQL to manage database through data manipulation language and data definition language. Advanced database objects are introduced.

ISMN 4880 MGT INFO SYSTEMS PROJECTS (3) LEC. 3. Pr. ISMN 4090. Coreq. ISMN 3830 and MNGT 3830. Synthesizes theory and principles of management information systems (MIS) using real-life, hands-on-projects.

ISMN 4920 INTERNSHIP (3) INT. 3. SU. Approval by departmental intern program committee. Course may be repeated for a maximum of 6 credit hours.

ISMN 4950 SEMINAR IN INFORMATION SYSTEMS MANAGEMENT (1-10) SEM. Course may be repeated for a maximum of 10 credit hours.

ISMN 5040 ADVANCED BUSINESS DATA COMMUNICATIONS (3) LEC. 3. Pr. ISMN 3140 or ISMN 3143. Discussion of the importance of telecommunications to an organization, including technology required, use strategy, and management. Credit will not be given for both ISMN 5040 and ISMN 6040/6046.

ISMN 5270 CURRENT ISSUES IN IS FOR ORGS (3) LEC. 3. This course covers current issues in Information Systems Management and Technology. As such, topics may differ from semester to semester. The objective of the course is to allow students to become familiar with issues such as emerging technologies, information systems and their role in vertical portals, and the role of information systems in industry. Course is designed to enable students to take it twice with subject change. Course may be repeated for a maximum of 6 credit hours.

ISMN 5290/5293 ADVANCED BUSINESS APPLICATION DEVELOPMENT (3) LEC. 3. Pr. BUAL 5650 or BUAL 5600. Programming languages and skills, with emphasis on designing and implementing computer-based business solutions. Credit will not be given for both ISMN 5290/5293 and ISMN 6290/6293.
ISMN 5360/5363 APPLICATION OF GEOSPATIAL INFORMATION SYSTEMS FOR BUSINESS (3) LEC. 3. GIS involves the use of GIS and desktop mapping technology to aid in processes such as disaster recovery, facility planning and management, market segmentation, and community growth. The student will learn how to strategically use GIS to facilitate organizational performance. Credit will not be given for both ISMN 5360/5363 and ISMN 6360/6366.

ISMN 5370/5373 PROJECT MANAGEMENT (3) LEC. 3. Tools and techniques of information technology project management including leading project management software. Credit will not be given for both ISMN 5370/5373 and ISMN 6370/6373.

ISMN 5380/5383 SOCIAL MEDIA AS A TOOL FOR BUSINESS STRATEGY (3) LEC. 3. Learn how to use social media as an tool to integrate business processes and enhance business performance. Credit will not be given for both ISMN 5380/5383 and ISMN 6380/6386.

ISMN 5390/5393 INTEGRATING BUSINESS PROCESSES WITH ERP (3) LEC. 3. Examination of how integrating business processes in ERP environment promotes strategic alignment and performance gains for an organization. Credit will not be given for both ISMN 5390/5393 and ISMN 6390/6396.

ISMN 5620 BUSINESS APPLICATIONS WITH OPEN SOURCE SOFTWARE (3) LEC. 3. Overview of business solutions with open source software. Students will have a hands-on opportunity to learn to administer and manage open source software and to become comfortable deploying/employing popular OSS applications as business solutions.

ISMN 5630 CLIENTSIDE INTERNET PGM (3) LEC. 3. Fundamentals of client-side Internet programming using technologies such as HTML, JavaScript, Cascading Style Sheets, and XML. Credit will not be given for both ISMN 5630 and ISMN 6630/6636.

ISMN 5640 SERVERSIDE INTERNET PGM (3) LEC. Fundamentals of server-side Internet programming using technologies such as PHP, MySQL, and XML. Credit will not be given for both ISMN 5640 and ISMN 6640/6646.

ISMN 5650 APPLICATION DEVELOPMENT WITH EMERGING TECHNOLOGIES (3) LEC. 3. Fundamentals of developing comprehensive, component-based local and Internet business applications. Credit will not be given for both ISMN 5650 and ISMN 6650/6656.

ISMN 5680 ADVANCED DATA BASE ADMINISTRATION AND DEVELOPMENT (3) LEC. 3. Pr. ISMN 3830. Key tasks and functions required of a database administrator in a business environment. Credit will not be given for both ISMN 5680 and ISMN 6680/6686.

ISMN 5690 KNOWLEDGE MANAGEMENT AND ORGANIZATIONAL LEARNING (3) LEC. 3. Introduction to knowledge management and its role in organizational decision-making and learning. Studies of issues related to management, creation, and use of knowledge as well as issues related to system design and implementation. Credit will not be given for both ISMN 5690 and ISMN 6690/6696.

ISMN 5720/5723 ELECTRONIC COMMERCE (3) LEC. 3. A managerial and interdisciplinary investigation into the many different business activities done on the Internet including buying and selling products and services, servicing customers, collaborating with stakeholders inside and outside the organization, social networking, and learning, among others. Students will come away with a broad knowledge of electronic commerce and its implications to modern business life and social life. Credit will not be given for both ISMN 5720/5723 and ISMN 6720/6726.

ISMN 5730/5733 SECURITY & INFORMATION ASSURAN (3) LEC. 3. This course covers the fundamentals of computer security and information assurance from a management perspective. The student will be exposed to security and information assurance topics such as security policies, confidentiality, and ethics. Credit will not be given for both ISMN 5730/5733 and ISMN 6730/6736.

ISMN 5740/5743 INFORMATION RISK ANALYSIS (3) LEC. 3. Indepth instruction on the range of skills required of persons engaged in the performance of risk analysis functions. Credit will not be given for both ISMN 5740/5743 and ISMN 6740/6746.

ISMN 5750/5753 INFORMATION TECHNOLOGY AUDITING (3) LEC. 3. Pr. (ISMN 5730 or ISMN 5670). This course presents in-depth instruction on the range of skills required of persons engaged in the performance of IT audit. The skills include those required by but not limited to a technology analyst, data scientist, or CIO. Credit will not be given for both ISMN 5750/5753 and ISMN 6750/6756.

ISMN 5770 INFORMATION SYSTEMS ETHICS (3) LEC. 3. Pr. (PHIL 1020 or PHIL 1023 or PHIL 1027 or PHIL 1040) and (ISMN 3140 or ISMN 3143). Information systems ethics, including: fundamentals; professional and user standards; and issues related to privacy, freedom of expression, intellectual property, and software development. Credit will not be given for both ISMN 5770 and ISMN 6770/6776.
ISMN 5870 BUSINESS INTELLIGENCE APPLICATIONS (3) LEC. 3. Pr. ISMN 3830 or BUAL 5650. Key tasks, tools, techniques and methodologies supporting the application of Business Intelligence Systems in organizations, and related management issues. Credit will not be given for both ISMN 5870 and ISMN 6870/6876.

ISMN 5900 DIRECTED STUDIES (1-3) IND. SU. Independent study on current topics in information systems management. Course may be repeated for a maximum of 6 credit hours.

ISMN 5960 SPECIAL PROBLEMS (3) IND. 3. Independent study investigating current literature in information systems management. Course may be repeated for a maximum of 6 credit hours.

ISMN 6040/6046 ADVANCED BUSINESS DATA COMMUNICATIONS (3) LEC. 3. Discussion of the importance of telecommunications to an organization, including technology required, use strategy, and management. Credit will not be given for both ISMN 5040 and ISMN 6040/6046.

ISMN 6270/6276 CURRENT ISSUES IN INFORMATION SYSTEMS FOR ORGANIZATIONS (3) LEC. 3. This course covers current issues in Information Systems Management and Technology. As such, topics may differ from semester to semester. The objective of the course is to allow students to become familiar with issues such as emerging technologies, information systems and their role in vertical portals, and the role of information systems in industry. Course is designed to enable students to take it twice with subject change. Course may be repeated for a maximum of 6 credit hours.

ISMN 6286 INFORMATION SYSTEMS ARCHITECTURE IN THE SMALL LAND MEDIUM-SIZE ENTERPRISE (3) LEC. 3. Pr. ISMN 3040 and ISMN 3070. This course is an expose’ into the current business applications of open source software. The course consists of 1) A research component focusing on current trends and practices within the culture of Open Source Software as well as the current and potential impact on business and 2) a hands-on laboratory component in which students explore the application of Open Source Software as a business tool. Equivalent courses at the graduate level. Credit will not be given for both ISMN 5280 and ISMN 6280/6286.

ISMN 6290/6296 ADVANCED PROGRAMMING APPLICATION DEVELOPMENT (3) LEC. 3. Department approval. Programming languages and skills, with emphasis on designing and implementing computer-based business solutions. Credit will not be given for both ISMN 5290/5293 and ISMN 6290/6293.

ISMN 6370/6376 PROJECT MANAGEMENT (3) LEC. 3. Tools and techniques of information technology project management including leading project management software. Credit will not be given for both ISMN 5370/5373 and ISMN 6370/6373.

ISMN 6380/6386 SOCIAL MEDIA AS A TOOL FOR BUSINESS STRATEGY (3) LEC. 3. Learn how to use social media as a tool to integrate business processes and enhance business performance. Credit will not be given for both ISMN 5380/5383 and ISMN 6380/6386.

ISMN 6390/6396 INTEGRATING BUSINESS PROCESSES WITH ERP (3) LEC. 3. Examination of how integrating business processes in ERP environment promotes strategic alignment and performance gains for an organization. Credit will not be given for both ISMN 5390/5393 and ISMN 6390/6396.

ISMN 6620/6626 BUSINESS APPLICATIONS WITH OPEN SOURCE SOFTWARE (3) LEC. 3. Evaluates business solutions with open source software. Students will have a hands-on opportunity to learn to administer and manage open source software and to become comfortable deploying/employing popular OSS applications as business solutions.

ISMN 6630/6636 CLIENTSIDE INTERNET PROGRAMMING (3) LEC. 3. Fundamentals of client-side Internet programming using technologies such as HTML, JavaScript, Cascading Style Sheets, and XML. Credit will not be given for both ISMN 5630 and ISMN 6630/6636.

ISMN 6640/6646 SERVERSIDE INTERNET PGM (3) LEC. 3. Fundamentals of server-side Internet programming using technologies such as PHP, MySQL, and XML. Credit will not be given for both ISMN 5640 and ISMN 6640/6646.

ISMN 6650/6656 APPLICATION DEVELOPMENT WITH EMERGING TECHNOLOGIES (3) LEC. 3. Fundamentals of developing comprehensive, component-based local and Internet business applications. Credit will not be given for both ISMN 5650 and ISMN 6650/6656.

ISMN 6670/6676 SECURITY AND INFORMATION ASSURANCE (3) LEC. 3. This course covers the fundamentals of computer security and information assurance from a management perspective. The student will be exposed to security and information assurance topics such as security policies, confidentiality and ethics. Organizational issues of security and methodologies for information assurance will be discussed from a managerial perspective.
ISMN 6680/6686 ADVANCED DATABASE ADMINISTRATION AND DEVELOPMENT (3) LEC. 3. Pr. ISMN 3830 or ISMN 7830 or ISMN 7836. Key tasks and functions required of a database administrator in a business environment. Credit will not be given for both ISMN 5680 and ISMN 6680/6686.

ISMN 6690/6696 KNOWLEDGE MANAGEMENT AND ORGANIZATIONAL LEARNING (3) LEC. 3. Introduction to knowledge management and its role in organizational decision-making and learning. Studies of issues related to management, creation, and use of knowledge as well as issues related to system design and implementation. Credit will not be given for both ISMN 5690 and ISMN 6690/6696.

ISMN 6710/6716 INFORMATION RISK ANALYSIS (3) LEC. 3. Departmental approval. Indepth instruction on the range of skills required of persons engaged in the performance of risk analysis functions.

ISMN 6720/6726 ELECTRONIC COMMERCE (3) LEC. 3. A managerial and interdisciplinary investigation into the many different business activities done on the Internet including buying and selling products and services, servicing customers, collaborating with stakeholders inside and outside the organization, social networking, and learning, among others. Students will come away with a broad knowledge of electronic commerce and its implications to modern business life and social life. Credit will not be given for both ISMN 5720/5723 and ISMN 6720/6726.

ISMN 6730/6736 SECURITY AND INFORMATION ASSURANCE (3) LEC. 3. This course covers the fundamentals of computer security and information assurance from a management perspective. The student will be exposed to security and information assurance topics such as security policies, confidentiality and ethics. Credit will not be given for both ISMN 5730/5733 and ISMN 6730/6736.

ISMN 6740/6746 INFORMATION RISK ANALYSIS (3) LEC. 3. Indepth instruction on the range of skills required of persons engaged in the performance of risk analysis functions. Credit will not be given for both ISMN 5740/5743 and ISMN 6740/6746.

ISMN 6750/6756 INFORMATION TECHNOLOGY AUDITING (3) LEC. 3. This course presents in-depth instruction on the range of skills required of persons engaged in the performance of IT audit. The skills include those required by but not limited to a technology analyst, data scientist, or CIO. May count either ISMN 5750 or ISMN 6750.

ISMN 6770/6776 INFORMATION SYSTEMS ETHICS (3) LEC. 3. Pr. (PHIL 1020 or PHIL 1023 or PHIL 1027 or PHIL 1040) and (ISMN 3140 or ISMN 3143). Information systems ethics, including: fundamentals; professional and user standards; and issues related to privacy, freedom of expression, intellectual property, and software development. Credit will not be given for both ISMN 5770 and ISMN 6770/6776.

ISMN 6870/6876 BUSINESS INTELLIGENCE APPLICATIONS (3) LEC. 3. Pr. ISMN 3830 or BUAL 5650. Key tasks, tools, techniques and methodologies supporting the application of Business Intelligence Systems in organizations, and related management issues. Credit will not be given for both ISMN 5870 and ISMN 6870/6876.

ISMN 6900/6906 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Independent study on current topics in management. Course may be repeated for a maximum of 3 credit hours.

ISMN 6960/6966 SPECIAL PROBLEMS (3) IND. Departmental approval. General management theories, practices, and functions in industry and business. Individual work with a designated faculty member. Course may be repeated for a maximum of 6 credit hours.

ISMN 7020/7026 BUSINESS TELECOMMUNICATIONS AND NETWORKS (3) LEC. 3. Provides an understanding of voice and data communications, e.g., networks (LAN, internet), protocols standards, legislation and project development, so that managers, might utilize telecommunications effectively.

ISMN 7140/7146 MANAGING END USER COMPUTING (3) LEC. 3. Studies MIS from user's perspective, and compares it with the roles of the professional department. Course covers support of desktop applications, data usage, and communications.

ISMN 7360/7366 INTEGRATING THEORY AND PRACTICE FOR TECHNOLOGY MANAGERS (3) LEC. 3. A study of the technical and non-technical forces that influence the decision-making process in companies by the use of innovative instructional material.

ISMN 7380/7386 INTEGRATING INFORMATION TECHNOLOGIES TO PROVIDE COMPETITIVE ADVANTAGE (3) LEC. 3. How to integrate effectively information technologies in formulating and implementing competitive strategies for companies.

ISMN 7660/7666 INFORMATION SYSTEMS ANALYSIS AND DESIGN (3) LEC. 3. General systems theory, information systems logical and physical analysis, structured and object-oriented methodologies and prototyping, system documentation, general design and use of CASE tools.
ISMN 7670/7676 ELECTRONIC COMMERCE (3) LEC. 3. The tools, skills, technologies, and business and social implications of the emergence of electronic commerce in cyberspace.

ISMN 7730/7736 MANAGEMENT OF INNOVATION (3) LEC. 3. Pr. BUSI 7220 or BUSI 7226. The process of product and service innovation on two levels: managing product design and general strategies for managing multiple innovation streams.

ISMN 7760/7766 QUANT METHODS IN OPS MGT (3) LEC. 3.

ISMN 7810/7816 STRUCTURED DECISION MAKING (3) LEC. 3. Introduction to business decision structuring and aiding, including multiple criteria and group-decision making methodology.

ISMN 7830/7836 ADVANCED DATABASE MANAGEMENT SYSTEMS PROJECTS (3) LEC. 3. Database management systems using database methodologies to support business applications, including requirements for distributed databases.

ISMN 7870/7876 EXPERT SYSTEMS IN BUSINESS (3) LEC. 3. Pr. BUSI 7220 or BUSI 7226. Study of expert systems and other knowledge-based systems in the organization, including relevant concepts, methodologies, architectures, strategies, and issues.

ISMN 7880/7886 ADVANCED MANAGEMENT INFOR SYST (3) LEC. 3. In-depth inquiry and analysis of advanced information technologies in organizations.

ISMN 7890/7896 INFORMATION RESOURCE MGT (3) LEC. 3. Pr. BUSI 7220 or BUSI 7226. Management of information systems resources, unique management problems in a computer information systems environment. Strategic and competitive analysis of information technology.

ISMN 7980/7986 MMIS PROJECT (1-10) IND. SU. Departmental approval. Independent exploration of an approved topic/problem that allows the student to demonstrate the application of knowledge and capabilities gained during the program. Approval of the project and assessment of its deliverables by the student's advisory committee is required. Course may be repeated for a maximum of 10 credit hours.

ISMN 7990 RESEARCH AND THESIS (1-10) MST. Departmental approval. Research on thesis or research project. Course may be repeated with change in topics.

ISMN 8010 IS MANAGEMENT RESEARCH SEM. I (3) SEM. 3. Departmental approval. Preparation in conceptualization, conduct, and presentation MIS research.

ISMN 8020 IS MANAGEMENT RESEARCH SEMINAR II (3) SEM. 3. Departmental approval. Preparation in conceptualization, conduct, and presentation of applied and case studies research in MIS.

ISMN 8030 DOCTORAL SEMINAR IN INFORMATION SYSTEMS RESEARCH I (3) SEM. 3. Research methodologies used in conducting research with emphasis on empirical research methods.

ISMN 8040 DOCTORAL SEMINAR IN INFORMATION SYSTEMS RESEARCH II (3) SEM. 3. Research methodologies used in conducting research with emphasis on conceptual and empirical research methods.

ISMN 8500 ADVANCED IS MANAGEMENT RESEARCH SEMINAR I (3) SEM. 3. Departmental approval. Theoretical foundations and research directions in the management of technology and technological innovation, with the primary focus on information technology and research.

ISMN 8600 ADVANCED IS MANAGEMENT RESEARCH SEMINAR II (3) SEM. 3. Departmental approval. Theoretical foundations and research directions in the alignment of information technology strategy to business objectives and goals.

ISMN 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Must be degree seeking PhD student in the Business with concentration in IS program.

Supply Chain Management Courses

SCMN 3150/3153 OPS: MNGT OF BUSINESS PROCES (2) LEC. 2. Fundamental concepts, techniques and tools of business processes. Junior standing.

SCMN 3710/3713 LOGS: MNGT OF FULFILLMENT PROC (3) LEC. 3. Management of logistics processes involved in meeting customer demand, including inventory, transportation, distribution, and related activities. Fall, Spring. Junior standing.

SCMN 3730 PURCHASING: SUPPLY MANAGEMENT AND SEARCHING (3) LEC. 3. In-depth coverage of purchasing and supply management processes, strategies, and tools. Fall, Spring. Junior standing.

SCMN 3810 PROFESSIONAL DEVELOPMENT IN SUPPLY CHAIN MANAGEMENT (1) LEC. 1. SU. Pr. P/C SCMN 3150. SCMN majors only. Career planning and preparation for supply chain internships and professional experience opportunities. Credit will not be given for both SCMN 3810 and BUSI 3010, BUSI 4010, or SCMN 4810.

SCMN 3910 PRACTICUM IN SUPPLY CHAIN MANAGEMENT (1) PRA. 3. SU. Pr. SCMN 3150 or SCMN 3153 or SCMN 3710 or SCMN 3713. Departmental approval. SCMN majors only. Cooperatively selected field activity to gain practical SCM experience. Course may be repeated for a maximum of 3 credit hours.

SCMN 3920 INTERNSHIP IN SUPPLY CHAIN MANAGEMENT (0-6) INT. SU. Pr. SCMN 3150 or SCMN 3153 or SCMN 3710 or SCMN 3713. SCMN majors only. Departmental approval. Professional work experience in a supply chain focused position. Course may be repeated for a maximum of 6 credit hours.

SCMN 4700 SUPPLY CHAIN PERFORMANCE MANAGEMENT (3) LEC. 3. Pr. SCMN 3710 or SCMN 3713 or SCMN 3720. SCMN majors only. Understanding and managing supply chain performance through the use of metrics, analysis, and improvement strategies. Fall, Spring.

SCMN 4710 SUPPLY CHAIN TOOLS AND TECH (3) LEC. 3. Pr. SCMN 3150 or SCMN 3153. Tools, techniques and technologies of various supply chain processes.

SCMN 4720 SUPPLY CHAIN OPERATIONS MANAGEMENT (3) LEC. 3. Pr. SCMN 3150 and SCMN 3710 and SCMN 3720 and SCMN 3730. Review and application of current supply chain strategies processes and information technologies required to compete in today's global marketplace. The course will focus on presenting key manufacturing management techniques used to balance supply with demand to ensure customer satisfaction.

SCMN 4730 INTEGRATED LOGISTICS STRATEGY (3) LEC. 3. Pr. (SCMN 3710 or SCMN 3713) and SCMN 3720. Strategies and tactics for improving service and financial performance of transportation companies and their customers. Fall.

SCMN 4800 SUPPLY CHAIN STGY:GLOBAL PERSP (3) LEC. 3. Pr. and SCMN 3710 and SCMN 3720 and SCMN 3730. Capstone course providing an intensive study of strategies used to facilitate global flows of product, information, and payments. Fall, Spring.

SCMN 4900 DIRECTED STUDIES IN SUPPLY CHAIN MANAGEMENT (1-3) AAB/LEC. SU. Pr. (SCMN 3150 or SCMN 3153) and (SCMN 3710 or SCMN 3713) and SCMN 3720 and SCMN 3730. Departmental approval. Advanced individual research of SCM topic under direction of a faculty member. Course may be repeated for a maximum of 3 credit hours.

SCMN 4970 SPEC TOPS IN SUPPLY CHAIN MGNT (3-6) AAB. Pr. (SCMN 3150 or SCMN 3153) and (SCMN 3710 or SCMN 3713). Current topics and issues related to the field of supply chain management. Course may be repeated for a maximum of 6 credit hours.

SCMN 5710 ADVANCED PROCESS ANALYSIS (3) LEC. 3. Pr. SCMN 3150 or SCMN 3153. Advanced concepts, techniques and tools for process analysis; process performance; process control; process design. Fall, Spring.

SCMN 5720 QUALITY& PROCESS IMPROVEMENT (3) LEC. 3. Pr. (SCMN 3150 or SCMN 3153) and (BUAL 2600 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 2513 or STAT 2610 or STAT 3010). Fundamentals of process improvement; techniques for performing quality control functions; quality management systems. Fall, Spring.

SCMN 6710 ADVANCED PROCESS ANALYSIS (3) LEC. 3. Advanced concepts, techniques and tools for process analysis; process performance; process control; process design. Fall, Spring.

SCMN 6720/6726 QUALITY & PROCESS IMPROVEMENT (3) LEC. 3. Pr. (SCMN 3150 or SCMN 3153) and (BUAL 2600 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 2513 or STAT 2610 or STAT 3010). Fundamentals of process improvement; techniques for performing quality control functions; quality management systems. Fall, Spring.

SCMN 7600/7606 SUPPLY MNGT AND MANUFACTURING (3) LEC. 3. The management of purchasing, supply and materials management, manufacturing processes related to the fulfillment of supply chain requirements. Spring.
SCMN 7700/7706 DEMAND MANAGEMENT FULFILLMENT (3) LEC. 3. Departmental approval. The management of logistical processes related to the fulfillment of supply chain requirements. Primary topics include integrated planning, operations, and performance analysis of demand, inventory, transportation, distribution, and customer relationships. Summer.

SCMN 7776 SUPPLY CHAIN MANAGEMENT (3) LEC. 3. Problems and analysis in the design and management of the retail, industrial and service supply chain.

SCMN 7800/7806 SUPPLY CHAIN STRATEGY (3) LEC. 3. Departmental approval. Advanced study of integrated supply chain theory, strategy, and practice. Topics include network design, collaboration, inventory visibility, process synchronization, information management, and financial analysis. Fall.