SCMA 191 Special Topics in Supply Chain Management
Description: Variety of topics on the undergraduate level.
Credit Hours: 1-3
Min credits per semester: 1
Max credits per semester: 3
Max credits per degree: 3
Format: IND

SCMA 250 Business Programming
Prerequisites: BSAD 50; 2.5 GPA
Description: Fundamental concepts in computing and programming in business. A programming language is chosen based on the ease of learning and its acceptance in the business community; e.g., Visual Basic, JAVA, XML, etc.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: IND

SCMA 331 Operations and Supply Chain Management
Prerequisites: Sophomore standing; 2.5 GPA; Business Qualified (MATH104 or MATH106/106B or MATH107 or MATH208; BSAD220; ACCT201 and ACCT202; ECON211 and ECON212; ECON215 or equivalent.) Prereqs differ for RAIKES, ACTS, and ABUS majors - see bulletin for exceptions.
Notes: Cannot be taken Pass/No Pass.
Description: Analytical management techniques for: ascertaining demand for the organization's goods and services; justifying and acquiring the necessary resources; and planning and controlling the transformation of resources into goods and services. Application in both large and small organizations, private and public enterprise, service, and manufacturing organizations.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: ACCT 308; MNGT 475, MNGT 875; MRKT 444, SCMA 444; SCMA 431; SCMA 432; SCMA 434; SCMA 436; SCMA 437; SCMA 439; SCMA 447; SCMA 474

SCMA 335 Supply Chain Decision Making Models
Prerequisites: BSAD 50; Business Qualified (MATH104 or MATH106 or MATH107/MATH107H or MATH208/MATH208H; ACCT201 or ACCT201H or RAIK181H; ECON211 or ECON211H or RAIK282H; ECON212 or ECON212H or RAIK182H; ECON215 or ECON215H or STAT218). 2.5 GPA
Description: Quantitative decision making tools for Supply Chain Management applications. Development of optimization models for applications in transportation and distribution networks, operations scheduling, and inventory planning.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: SCMA 432; SCMA 436; SCMA 439; SCMA 447; SCMA 451; SCMA 474

SCMA 346 Marketing Channels Management
Crosslisted with: MRKT 346
Prerequisites: MRKT 341
Description: Basic concepts used in analyzing marketing channels, identifies the issues of designing sound channels, the issues of managing them effectively, and evaluating their performance.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: SCMA 439; SCMA 474

SCMA 350 Business Analytics/Information Analysis
Prerequisites: Sophomore standing; 2.5 GPA; Business Qualified (MATH104 or MATH106/106B or MATH107 or MATH208; BSAD220; ACCT201&202; ECON211&212; ECON215 or equivalent.) Prereqs differ for RAIK, ACTS, & ABUS majors - see bulletin. Must also register for SCMA350L.
Notes: Cannot be taken Pass/No Pass.
Description: Data and information as important resources to be managed in modern organizations. Development of quantitative analytical skills and presentation in business decision making. Basic information system concepts with primary focus on data analysis and related business decisions.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: MNGT 475, MNGT 875; SCMA 437; SCMA 451; SCMA 452; SCMA 454; SCMA 458; SCMA 459

SCMA 350H Honors Business Analytics/Information Analysis
Prerequisites: Sophomore standing; 2.5 GPA; Business Qualified (MATH104 or MATH106/106B or MATH107 or MATH208; BSAD220; ACCT201&202; ECON211&212; ECON215 or equivalent.) Prereqs differ for RAIKES, ACTS, and ABUS majors - see bulletin. Must also register for SCMA350L.
Notes: Cannot be taken Pass/No Pass.
Description: Data and information as important resources to be managed in modern organizations. Development of quantitative analytical skills and presentation in business decision making. Basic information system concepts with primary focus on data analysis and related business decisions.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: MNGT 475, MNGT 875; SCMA 451

SCMA 350L Advanced Data Analysis Lab
Prerequisites: Sophomore standing; 2.5 GPA; Business Qualified (MATH104 or MATH106/106B or MATH107 or MATH208; BSAD220; ACCT201&202; ECON211&212; ECON215 or equiv.) Prereqs differ for RAIK, ACTS, & ABUS majors. Must also register for SCMA350. Open only to CBA students.
Notes: Cannot be taken Pass/No Pass.
Description: Organization, analysis and evaluation of data using advanced features of Microsoft Office to solve business problems addressed in the business analytics and information analysis class.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LAB
SCMA 391 Special Topics  
**Prerequisites:** Permission of department chair  
**Notes:** Topic varies. Specific topic covered in any given term and credit awarded is to be determined by the instructor.  
**Credit Hours:** 1-6  
**Min credits per semester:** 1  
**Max credits per semester:** 6  
**Max credits per degree:** 12  
**Format:** LEC

SCMA 396 Independent Study  
**Prerequisites:** Junior standing; permission of supervising instructor and department chair  
**Description:** Special research project or reading program.  
**Credit Hours:** 1-6  
**Min credits per semester:** 1  
**Max credits per semester:** 6  
**Max credits per degree:** 12  
**Format:** IND

SCMA 396H Independent Study  
**Prerequisites:** Good standing in the University Honors Program or by invitation; permission of instructor and department chair  
**Description:** Special research project or reading program.  
**Credit Hours:** 3-6  
**Min credits per semester:** 3  
**Max credits per semester:** 6  
**Max credits per degree:** 12  
**Format:** IND

SCMA 431 Enterprise Management Systems  
**Prerequisites:** SCMA 331; 2.5 GPA  
**Description:** Analytical approach to the design, planning, and control of operations management systems, including domestic and international, manufacturing and service operations.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 432 Supply Chain Planning and Control Systems  
**Prerequisites:** SCMA 331; SCMA 335; MRKT 341; 2.5 GPA  
**Description:** Forecasting and planning for capacity management, materials management, utilization of facilities, managing and scheduling inventory, scheduling people and equipment, tracking people, orders, and equipment to ensure the accommodation of customer needs while maintaining effective and efficient processes.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 434 Lean Supply Chain Operations  
**Prerequisites:** SCMA 331; 2.5 GPA  
**Description:** Focus on the improvement of supply chain operations through the application of lean management principles. Topics include just-in-time, six-sigma, theory of constraints, and associated tools and applications.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 435 Enterprise Supply Chain Management  
**Prerequisites:** SCMA 331; SCMA 335; MRKT 341; 2.5 GPA  
**Description:** Fundamentals of technology to include radio frequency identification systems (RFID). Description of physical characteristics, potential to support supply chain management, and implications on inventory management within supply chains.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 436 Project Management  
**Prerequisites:** SCMA 331; SCMA 335; 2.5 GPA  
**Description:** Planning and managing projects including project initiating and bidding, planning, budgeting and cost estimation, scheduling, managing risks, and final implementation.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 437 Supply Chain Risk Management  
**Prerequisites:** SCMA 331; SCMA 350; 2.5 GPA  
**Description:** Analytical and simulation models for decision making in functional areas such as finance, accounting, marketing, personnel, operations, and inventory. Construction of decision models for practical applications. Emphasis on analyzing alternatives and implementing solutions that result in increased productivity.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 439 Global Sourcing and Distribution  
**Prerequisites:** SCMA 331; SCMA 335; MRKT 346; 2.5 GPA  
**Description:** Sourcing strategies, concepts and tools in the context of integrated supply chains. Specific issues include make or buy decisions, supplier evaluation and selection, total cost of ownership, contracts and legal terms, negotiation, and purchasing ethics. Discussion of supply chains in the context of international trade. Purchasing options, to include benefits and risks in outsourcing. Information technology for control and coordination in international supply chains.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 444 Supply Chain Logistics Management  
**Crosslisted with:** MRKT 444  
**Prerequisites:** MRKT 341 and MNGT 331  
**Description:** Examination of physical distribution activities in the marketing mix from the viewpoints of both providers and users of components of logistics systems. Logistics problems concern to the marketing manager include time and place utility concepts, spatial relationships of markets, channel design, transportation modes, and inventory management.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 447 Supply Chain Technology  
**Prerequisites:** SCMA 331; SCMA 335; MRKT 341; 2.5 GPA  
**Description:** Analytical approach to the design, planning, and control of operations management systems, including domestic and international, manufacturing and service operations.

**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC
SCMA 451 Introduction to Predictive Analytics  
**Prerequisites:** SCMA 335; SCMA 350; 2.5 GPA  
**Description:** This course expands the basic statistical and analytics tools for developing understanding of advanced methods for data analysis and modeling, business strategy, information technology in order to develop automated structures to support decision making. The course is intended to provide tools for business applications working with data, databases and reports from analytic models. It covers fundamentals of data analysis and inferential statistics as well as predictive modeling techniques; including linear regression, logistic regression, structural equation modeling, decision trees, artificial neural networks and support vector machines. The course is intended for students interested in Business Analytics in all Business Majors as well as students who are primarily interested in the applications of data mining from fields such as engineering, basic sciences, sociology, psychology etc.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 452 Database Organization and Management  
**Prerequisites:** SCMA 350; 2.5 GPA  
**Description:** Database technology and related human and managerial considerations. Databases from two perspectives: the logical view, as the manager and applications programmer see and use the organization's data; and the physical view, as the systems software programmers and database manager view the data. Theory on database organization and the practical applications of databases.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 454 Information Systems Analysis and Design  
**Prerequisites:** SCMA 350; 2.5 GPA  
**Description:** Methods and methodologies used in systems analysis, design, and implementation. Decision-making process: systems development life cycles, requirement analysis, logical and/or conceptual design, and basic database concepts.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 458 Electronic Business  
**Prerequisites:** SCMA 350; 2.5 GPA  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 459 Global Information Systems  
**Prerequisites:** SCMA 350; 2.5 GPA  
**Description:** The worldwide political and economic changes in the last decade that have propelled city, state, country governments, and corporations to expand business globally and enter into new markets. Information technology (IT) as a key role in the globalization of businesses. The necessary concepts and ideas to understand the issues in the global or international use of information technology. IT environments around the world, national infrastructures and regulatory regimes, global IT applications, global IS development strategies, global management support systems, and global IT management strategies.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 474 Strategic Supply Chain Management  
**Prerequisites:** Senior Standing; Open to SCMA Majors Only; SCMA 331; SCMA 335, MRKT 346; 2.5 GPA  
**Description:** The focus of this course is on bringing together the concepts and theories of Supply Chain Management through the application in real world settings. Students will emulate decision making through simulated applications and will work with local/regional organizations to make improvements or explore opportunities enhancing supply chain applications.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

SCMA 499H Honors Thesis  
**Prerequisites:** Good standing in the University Honors Program or by invitation, and permission  
**Description:** Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.  
**Credit Hours:** 3-6  
**Min credits per semester:** 3  
**Max credits per semester:** 6  
**Max credits per degree:** 6  
**Format:** LEC