



SUPPLY CHAIN MANAGEMENT

Description

The College of Business at the University of Nebraska–Lincoln has established an undergraduate supply chain management major to educate students to become supply chain management professionals. Supply chain management (SCM) includes all the activities that must take place to get the right products and services into the right customer's hands in the right quantity at the right time—from raw material extraction to consumer purchase.

The topics that SCM covers are diverse and include procurement, order fulfillment, inventory management, supplier relationship management, product development and commercialization, returns management, physical distribution and shipping, warehousing, and outsourcing. With the depth and breadth of issues that it encompasses, industries that use SCM tools and approaches include transportation, hospitals, government organizations, construction, processing, social services, electronics, facility design, manufacturing, and warehousing.

The coursework for the supply chain management major (bachelor of science in business administration) consists of 120 credit hours, 27 of which are specific to the major. A focus of the coursework is developing the three foundational areas of supply chain management: procurement, logistics, and operations. The program offers integration among these critical, value-adding components to enhance global competitiveness. Eighteen (18) hours of required coursework is intended to provide students with an understanding of supply chain and logistic activities, development of strong quantitative and analytic skills, and an introduction to tools to explore and improve a system. Students will complete an additional 9 hours of coursework from directed electives in supporting fields such as accounting, economics, finance, management, or marketing.

COLLEGE REQUIREMENTS

College Admission

The entrance requirements for the College of Business (CoB) are the same as the University of Nebraska–Lincoln General Admission Requirements.

Honors Program

Nebraska Business Honors Academy

The Nebraska Business Honors Academy is a unique cohort-based program for high-ability students with demonstrated leadership potential. The goal of the Academy is to develop critical thinking, problem-solving, and communication skills to prepare graduates to be strategic decision-makers and innovators. The Academy combines a rigorous curriculum (including approximately 40 credit hours of cohort-based courses) with leadership training, co-curricular activities, and corporate involvement. Nebraska Business Honors Academy requirements differ from those listed in the catalog. Students work closely with the Academy's advisors on appropriate sequencing and enrollment in Academy-specific requirements.

Jeffrey S. Raikes School of Computer Science and Management

The purpose of the Jeffrey S. Raikes School of Computer Science and Management is to produce unique graduates who combine business knowledge and computing fundamentals for enterprise information and software systems. Graduates will be professionals who understand the multiple levels of new information systems and who become the

technology sector's innovators, product developers, entrepreneurs, chief information officers, and CEOs. Students interested in learning more about the Jeffrey S. Raikes School of Computer Science and Management program and curriculum requirements (which may differ from those listed here) are encouraged to call 402-472-6000 or visit the Jeffrey S. Raikes program website (<https://raikes.unl.edu/>). Students may also reference the Jeffrey S. Raikes School of Computer Science and Management catalog section under Other Academic Units.

College Degree Requirements

Overview of College Degree Requirements

The curriculum requirements for the College consist of coursework in four areas. All coursework (except electives and where otherwise noted) must be taken for a grade.

1. Non-Business Requirements

- Consist primarily of College and University ACE (Achievement-Centered Education) coursework

2. Business Core

- Purposeful Strategist (includes ACE 6, 8, 10)
- Data Driven Decision Maker
- Effective Communicator (includes ACE 1 and 2)
- Empowered Professional

3. Business Major

4. Electives

Non-Business Requirements

(remaining ACE requirements not included in the Business Core and Business Major requirements)

Five Courses (normally 15-17 hours)

All students in the College of Business will take the following non-business courses (unless otherwise noted).

- The college requires a calculus course from the below options to complete the ACE 3 requirement.
- Most students will take coursework to fulfill these requirements during the freshman/sophomore year. However, if hours are still needed during the junior/senior year, there may also be options to 'double count' coursework for ACE 4 and/or ACE 9 toward the major or a minor. This is likely to be of most benefit to 'transfer-in students' due to the nature of the program and when ACE requirements are traditionally taken.

All ACE coursework must be taken for a grade.

ACE 3: Mathematical, Computational, Statistical or Formal Reasoning Skills

Choose ONE of the following:

MATH 104 Applied Calculus

MATH 106 Calculus I

Any advanced calculus course above the 106 level

Notes regarding the selection of coursework for ACE 3:

- **Credit cannot be given for both MATH 104 and MATH 106.** Students must determine the appropriate course early in their program.

- A first-semester student's score on the Math Placement Exam will determine eligibility for MATH 104 or MATH 106. The student should select between these classes based on the following sets of circumstances:
 - Actuarial science majors **MUST** take MATH 106 (or a higher-level calculus). They will later take MATH 107 Calculus II and MATH 208 Calculus III.
 - Raikes students **MUST** take MATH 106 and MATH 107 (or a higher-level calculus).
 - MATH 106 (or higher calculus) is **strongly encouraged** for those students majoring in accounting, majoring in finance, majoring in economics, or considering graduate school.

Math Placement Exam (MPE)

Students admitted to the College of Business are required to take a Math Placement Exam prior to enrolling in the college math requirement of MATH 104 or MATH 106 (or higher math). The results will determine where a student starts.

- Preparatory courses should be taken as soon as possible to avoid future sequencing problems.
- Additional information about the exam can be found on the Math Placement website (<http://www.math.unl.edu/resources/undergraduate/mpe/>).

Whether required to enroll in preparation coursework first, as indicated on the MPE (MATH 100A Intermediate Algebra, MATH 101 College Algebra and/or MATH 103 College Algebra and Trigonometry), or in one of the required courses, it is critical to begin math the first semester on campus.

ACE 4: The Study of Scientific Methods and Knowledge of the Natural and Physical World

Choose one course from ACE 4 Certified Courses. (Course credit will vary between 3-5 credit hours.)

ACE 5: Study of Humanities

Choose one course from ACE 5 Certified Courses.

ACE 7: Study of the Arts to Understand Their Context

Choose one course from ACE 7 Certified Courses.

ACE 9: Global Awareness or Knowledge of Human Diversity Through Analysis of an Issue

Choose one course from ACE 9 Certified Courses.

In any of the above instances where double counting is an option, only 3 hours of credit are awarded; students will still need to meet the 120 hours for graduation.

Business Core – Four Sections (approximately 53 hours for most majors)

- Purposeful Strategist – 33 hours
- Data Driven Decision Maker – 7 hours (17 hours for Actuarial Science)
- Effective Communicator – 9 hours (7 hours for Actuarial Science)
- Empowered Professional – 3-4 hours

The Business Core is designed to expose students to the various business disciplines. The Business Major courses are those courses identified for each of the individual majors. All coursework for the Business Core (except where noted differently) must be taken for a grade.

All students in the College of Business will take the Business Core (unless otherwise noted).

Purposeful Strategist - 33 hours

- MNGT 101 Introduction to Business
- ACCT 201 Introductory Financial Accounting
- ACCT 202 Introductory Managerial Accounting
- ECON 211 Principles of Macroeconomics (ACE 6)
- ECON 212 Principles of Microeconomics (ACE 6)
- BLAW 371 Legal Environment (ACE 8)
- FINA 361 Finance
 - Actuarial Science majors take FINA 461.
- MNGT 301 Introduction to Management
- MRKT 341 Marketing
- SCMA 331 Operations and Supply Chain Management
- MNGT 475 Business Strategies (ACE 10)
 - A capstone course integrating business concepts covered throughout the program.
 - Actuarial science majors may take FINA 461 concurrently with MNGT 475.
 - Must be taken at the University of Nebraska-Lincoln and taken for a grade.

Data Driven Decision Maker

- BSAD 50 Business Computer Applications
 - Required basic-skills computer course that uses Microsoft Access, Word, PowerPoint, and Excel.
- SCMA 250 Spreadsheet Analytics
 - Actuarial science majors take ACTS 250 Actuarial Technical Skills.
- ECON 215 Statistics (ACE 3)
 - Must take ECON 215 (not STAT 218 Introduction to Statistics nor EDPS 459 Statistical Methods nor CRIM 300 Applied Statistics and Data Processing in the Public Sector nor SOCI 206 Introduction to Social Statistics).
 - Actuarial science majors **MUST** take ACTS 445 Introduction to Actuarial Models instead of ECON 215; (actuarial science majors will also take STAT 462 Introduction to Mathematical Statistics I: Distribution Theory and STAT 463 Introduction to Mathematical Statistics II: Statistical Inference).
 - Economics majors or minors can take STAT 380 instead of ECON 215.
- SCMA 350 Business Analytics/Information Analysis
 - Marketing and agribusiness majors may choose to take MRKT 350.
 - Actuarial science majors will take SCMA 451 Introduction to Predictive Analytics.

Effective Communicator

- BSAD 220 Business Writing (ACE 1)
- MRKT 257 Sales Communication (ACE 2)
 - Or, COMM 286 Business and Professional Communication (ACE 2)
- BSAD 261 Applied Improv for the Successful Business Leader
- BSAD 340 Navigating Emerging Technologies in Business

- ACTS 475 meets the knowledge requirement for BSAD 340 for Actuarial Science majors; BSAD 340 is waived for Actuarial Science majors.

Empowered Professional (PrEP) (3-4 hours)

Designed to develop confident and professional business students positioned for lifelong career success, the Professional Enhancement Program (PrEP) consists of four required 1-hour courses.

- BSAD 111 PrEP I, Investing in Strengths or BSAD 111S PrEP I, Investing in Strengths for Transfer Students
- BSAD 222 PrEP II, Career Development and Planning
- BSAD 333 PrEP III, Internship and Job Search Strategies
- BSAD 444 PrEP IV, Professional and Life Skills
 - Taken the semester of graduation.

Business Major – (21-31 hours)

- Coursework for the major requires completion of specific, required courses of the department (see individual major page), along with other guidelines.
- Business majors and minors cannot double count with Business Core (for example, MNGT 301 and MNGT 475 do not count towards the management majors).
- Business students cannot earn a major and a minor in the same area (for example, an Economics major cannot get an Economics minor; an International Business major cannot earn a Global Leadership minor). Similarly, International Business majors cannot earn a major or minor in the same option or subplan as their International Business major. (For example, an International Business-Finance major cannot earn a major or minor in Finance but could earn a major or minor in any other business area.)
- Business Administration majors cannot double count courses with any College of Business major or minor.
- Careful and advanced planning is necessary, as some courses for the major may not necessarily be available every semester, and classes for the major are limited in the summer sessions.
- ALL coursework for the major must be taken for a grade (students may not take classes Pass/No Pass).
- Sequencing of classes is critical; plan the major courses well in advance of enrollment. Visit with an academic advisor for assistance in planning critical class sequencing.
- A maximum of 3 hours of coursework may transfer if the 18-hour limitation has not been exceeded. Further restrictions may apply.

Electives – Hours vary to meet 120 hour minimum to graduate

Electives round out the rest of the 120 hour curriculum. Students have the option to choose courses toward a second major, a dual degree, a minor (or two); or students can simply select courses of personal interest.

- Some hours may need to be additional business coursework (to meet the requirement that 60 hours of coursework be in business). This requirement will vary by major.
- In a 21-hour Business Major, students will average 28 hours of elective credit; second major options and/or minors may be appropriate to consider for elective hours.

Other Requirements

Business Course/Business Elective Hours

At a minimum, 60 hours of business courses are required for the BSBA degree.

The required hours WILL VARY BY MAJOR, dependent on how requirements have been accepted and/or completed throughout the previous components of the program. While **GENERAL MINIMUM** guidelines by major are noted below, the Degree Audit will specify *minimum business* credit hour expectations for each student. Students will generally see this addressed under the ELECTIVE section (BUSINESS ELECTIVES) on the Degree Audit.

- Economics, marketing, and management (Entrepreneurship, General, and Leadership options) majors – 3 hours of business electives.
- Accounting, business administration, and management (Human Resources and Clifton Builders options) majors – no additional business coursework, as the major consists of 24 hours of business coursework.
- Actuarial science majors – no additional business coursework, as the major consists of more than 24 hours of business coursework.
- Finance majors – no additional business coursework, as the major consists of 24-27 hours of business coursework.
- Supply chain management and business analytics majors – no additional business coursework, as the major consists of 27 hours of business coursework.
- Agribusiness, Business & Law, and Raikes majors – no additional business coursework required due to intent of major as being 'business-related' coursework.
- Additional hours may be required if there is a variation in hours for Non-Business Requirement, Business Core, Business Major, or if there is a violation of transfer limits, etc.

Experiential Learning Requirement

All undergraduates in the College of Business must complete an Experiential Learning designated course or experience (which may include 0-credit courses designated to document co-curricular activities recognized as experiential learning).

Grade Rules C- and D Grades

While students may earn grades of C- or D, there are restrictions and recommendations for such grades and further enrollment options:

- A grade of C or higher is expected in prerequisite courses to enroll in ACCT courses.
- A grade of C or higher is required in FINA 361 in order to take most upper-level FINA courses.
- A grade of C or higher is required in other departmental higher-level sequencing courses (i.e., MATH 101 to take MATH 104, etc.). See course descriptions to determine enrollment restrictions.
- Grades of C- or lower may be replaced in the calculation of GPA by retaking the course at the University of Nebraska–Lincoln or within the University system (UNK, UNO).
- Grades of C or better are required to transfer courses from outside of the University of Nebraska system.

- Academic bankruptcy options may be considered for students who have one or two semesters of poor performance.

Pass/No Pass

Several restrictions apply when considering the Pass/No Pass option:

- BSAD 111, BSAD 222, BSAD 333, BSAD 444, and BSAD 50 are offered only as Pass/No Pass. All are required.
- Students may apply no more than 6 hours of elective credit using the Pass/No Pass option (excludes ACCT 395A, BSAD 111, BSAD 222, BSAD 333, BSAD 444, BSAD 395 (and cross-listings), MRKT 395).
- **No** student enrolled in **any** college at the University of Nebraska–Lincoln may take business courses in the College of Business using the Pass/No Pass option.
- College of Business students may **NOT** take coursework to satisfy ACE requirements, nor any required business coursework, including in the major and minor, using the Pass/No Pass option.
- Students majoring in actuarial science through the College of Business may **NOT** take any math, actuarial science, or required courses using the Pass/No Pass option.
- Students taking courses to fulfill the requirements of a minor in an area of study outside the College of Business are subject to College rules restricting use of the Pass/No Pass option if courses in the minor are used to meet ACE or any college-specific requirements.
- Students seeking any minor outside the College should verify rules applying to minimum grade expectations and Pass/No Pass options with the advisor for their minor, as additional restrictions may apply and often vary.
- Students from UNO/UNK/UNMC and from other institutions are subject to the same restrictions listed here for University of Nebraska–Lincoln students.

Exceptions to the above rules are limited to the following and no other exceptions will be made.

- An independent study or an internship course (391, 395, 396) may be taken in the College of Business using the Pass/No Pass option with the permission of the instructor and the department chair, but College of Business students who qualify for this exception may use the independent study or an internship course (391, 395, 396) **only** as elective credit.
- ACCT 395A, BSAD 395 (and cross-listings) and MRKT 395 taken in the Pass/No Pass format will not count against the six hour Pass/No Pass maximum in open electives.
- Advanced Placement grades of Pass and Credit By Exam grades of Pass will be accepted to fulfill degree requirements. These hours will not count against the 6-hour-maximum hours permitted.
- Students who travel abroad and return with “credit” rather than grades from the institution where they studied may use Pass grades to fulfill degree requirements. These hours will not count against the 6-hour maximum number of hours permitted.

Transfer Credit Rules

For detailed information on transfer credit rules, see Transfer Credit Restrictions (<https://catalog.unl.edu/undergraduate/business/>)

under Course Exclusions and Restrictions (<https://catalog.unl.edu/undergraduate/business/>).

Residency

At least 30 of the last 36 hours of credit must be registered for and completed in residence at the University of Nebraska–Lincoln.

Students electing to study abroad during part of this time are exempted for the hours earned abroad, but no additional hours may be transferred in the last 36 hours. This exemption requires filing a written appeal in the Business Advising and Student Engagement Office (Hawks Hall 125).

ACE Requirements

All students must fulfill the Achievement-Centered Education (ACE) requirements. Information about the ACE program may be viewed at the Achievement-Centered Education website (<https://ace.unl.edu/>). MyRED may also be used to search for currently offered ACE classes.

ACE Achievement-Centered Education—Ten Courses (normally 30 hours)

This is the university’s innovative, outcomes-focused general education component designed to enhance the undergraduate experience by providing broad exposure to multiple disciplines, complementing the major, and helping students develop important reasoning, inquiry, and civic capacities.

Important rules to remember when selecting coursework to meet this requirement:

- There are 10 ACE Student Learning Outcomes (SLOs). At least one course, equivalent to 3 credit hours, must be taken for each of the 10 SLOs.
- Up to three ACE SLOs from ACE 4–10 may be satisfied by work in one subject area.
- ACE SLOs must be satisfied by work in at least three subject areas.
- No ACE course may satisfy more than one ACE SLO in a student’s program.
- If an ACE course addresses two ACE SLOs, the student decides which one of the two outcomes the course will satisfy in that student’s program. (The Degree Audit will make an automatic decision based on first course taken, first SLO needed.)
- As part of the College requirements of non-business and business courses, many courses will also work for ACE. Students should carefully review required coursework with ACE options to make the best use of courses to fulfill both degree requirements as well as University of Nebraska–Lincoln ACE requirements.

Catalog Rule

Students (including transfer students) must follow the Undergraduate Catalog in effect when they are admitted into the College of Business. Students who leave the College and return, or those applying for ‘readmission’ to the College, are subject to requirements in place at the time of their readmission to the College.

Students who have transferred from a community college may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska-Lincoln. The College will determine eligibility in consultation with academic advisors, provided the student a) was

enrolled in a community college during the catalog year they are utilizing, b) maintained continuous enrollment at the previous institution for 1 academic year or more, and c) continued enrollment at the University of Nebraska-Lincoln within 1 calendar year from their last term at the previous institution. Students must complete all degree requirements from a single catalog year and within the timeframe allowable for that catalog year.

Learning Outcomes

Graduates of supply chain management will be able to:

1. Understand the technical content and theory of supply chain management systems.
2. Develop the ability to quantitatively model typical supply chain problems.
3. Understand principles of acquisition, transportation, and delivery of supply chain content.
4. Learn computer systems available to support management and coordination of supply chains.
5. Understand value systems, ethics, and sustainability.

Major Requirements

Core Requirements

In addition to the College Degree Requirements, students will complete 27 hours of coursework for the Business Major.

All students, regardless of their major or interests in the College, will take SCMA 250 Spreadsheet Analytics, SCMA 331 Operations and Supply Chain Management, and SCMA 350 Business Analytics/Information Analysis as part of the Business Core requirements.

NONE of these courses may be used to count toward the Business Major.

Specific Major Requirements

Business Major

All coursework for the Business Major must be taken for a grade. No course taken Pass/No Pass will be counted toward the major.

The requirements for the Business Major, in addition to the general College requirements, consist of 18 hours of specific required SCMA major courses as well as 9 hours of major directed electives, as listed below. All supply chain management majors are expected to enroll in SCMA 474 Strategic Supply Chain Management during their fall/spring semester prior to graduation. Supply chain management and business analytics double majors will only take one of SCMA 474 or SCMA 454 (students must take one but may not take both, see advisor to discuss). The Department allows supply chain management majors to double count with all other business majors except for business administration.

SCMA 335	Decision Making Models	3
SCMA 431	Enterprise Management Systems	3
SCMA 432	Supply Chain Planning and Control Systems	3
SCMA 439	Global Sourcing and Distribution	3
SCMA 444 / MRKT 444	Supply Chain Logistics Management	3
SCMA 474	Strategic Supply Chain Management	3
Total Credit Hours		18

As well as 9 hours from the following directed electives, where at least 3 hours (one course) must be from an SCMA course:

ACCT 301	Using Accounting Information	3
ACCT 308	Intermediate Managerial Accounting	3
ACCT 309	Accounting Systems and Analytics	3
ECON 321	Introduction to International Economics	3
ECON 421	International Trade	3
ECON 422	International Finance	3
FINA 375	Financial Statement Analysis	3
MNGT 412	Negotiating and Conflict Management	3
MRKT 345	Market Research	3
MRKT 346	Marketing Channels Management	3
MRKT 425	Retailing Management	3
SCMA 434	Lean Supply Chain Operations	3
SCMA 436	Project Management	3
SCMA 437	Risk and Decision Analysis	3
SCMA 447	Supply Chain Technology	3
SCMA 450	Communication for Business Analytics	3
SCMA 451	Introduction to Predictive Analytics	3
SCMA 452	Database Organization and Management	3
SCMA 453	Machine Learning Applications for Business Analytics	3
SCMA 458	Electronic Business	3
SCMA 459	Global Information Systems	3

Students who are admitted in and who complete either the **Certificate in Professional Selling** or the **Advanced Certificate in Professional Selling** (Sales Excellence Program) may use their certificate coursework towards the directed electives for the supply chain major. Students may not use MRKT 371 or MRKT 372 to satisfy the directed electives for the supply chain management major.

Additional Major Requirements

Grade Rules

C- and D Grades

A grade of D- or above is required for all courses in the major. Grades of C or better are required in transfer courses from outside of the University of Nebraska system.

Pass/No Pass

As noted in the College Degree Requirements section, all coursework for the major must be taken for a grade.

Requirements for Minor Offered by Department

The supply chain management minor is available to College of Business students only. No more than one course/requirement may be transferred into the minor. Coursework used for this minor cannot double count with the Business Core or the Business Administration major.

The minor requirement is 12 hours of SCMA courses selected from the course list below.

Course List

Select 12 hours from the following:

MRKT 346 / SCMA 346	Marketing Channels Management	3
MRKT 444 / SCMA 444	Supply Chain Logistics Management	3
SCMA 335	Decision Making Models	3
SCMA 431	Enterprise Management Systems	3
SCMA 432	Supply Chain Planning and Control Systems	3
SCMA 434	Lean Supply Chain Operations	3
SCMA 436	Project Management	3
SCMA 437	Risk and Decision Analysis	3
SCMA 439	Global Sourcing and Distribution	3
SCMA 447	Supply Chain Technology	3

Grade Rules

C- and D Grades

A grade of D- or above is required for all courses in the minor. Grades of C or better are required in transfer courses from outside of the University of Nebraska system. Course prerequisites still apply.

Pass/No Pass

No course may be taken pass/no pass.

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

Grading Option: Graded with Option

SCMA 250 Spreadsheet Analytics

Prerequisites: MNGT 101/101T or concurrent, BSAD 50

Notes: Cannot be taken Pass/No Pass. SCMA 250 can be used to replace a D or F grade in SCMA 350L.

Description: Organization, analysis and evaluation of data using advanced features of Microsoft Office to solve business problems.

Credit Hours: 1

Max credits per semester: 1

Max credits per degree: 1

Grading Option: Graded

Prerequisite for: ACCT 309; FINA 361; FINA 361A; SCMA 331; SCMA 335; SCMA 350

Course and Laboratory Fee: \$20

SCMA 331 Operations and Supply Chain Management

Prerequisites: Open to CoB Majors, 2.5 GPA, MNGT 101 (or MNGT 101T concurrent), MATH 104 or 106, ECON 215 (or concurrent), BSAD 222, SCMA 250 (or ACTS 250).

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

Grading Option: Graded

Prerequisite for: MNGT 475; MNGT 475H, RAIK 476H; MRKT 444, SCMA 444; SCMA 431; SCMA 432; SCMA 434; SCMA 436; SCMA 437; SCMA 439; SCMA 447; SCMA 474

SCMA 335 Decision Making Models

Prerequisites: Open to CoB majors, 2.5 GPA, MNGT 101 (or 101T concurrent), MATH 104 or 106, SCMA 250 (or ACTS 250)

Description: Quantitative decision making tools for business applications. Development of optimization models for applications in operations, transportation, marketing, and finance.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Prerequisite for: SCMA 432; SCMA 439; SCMA 447; SCMA 450; 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

Grading Option: Graded

SCMA 350 Business Analytics/Information Analysis

Prerequisites: Open to CoB Majors, 2.5 GPA, MNGT 101 (or MNGT 101T concurrent), MATH 104 or 106, BSAD 50, BSAD 220, ECON 215, SCMA 250 (or ACTS 250)

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

Grading Option: Graded

Prerequisite for: ACCT 308; BSAD 340; FINA 401; MNGT 475; MNGT 475H, RAIK 476H; SCMA 437; SCMA 450; SCMA 451; SCMA 452; SCMA 453; SCMA 458; SCMA 459

SCMA 350H Honors Business Analytics/Information Analysis

Prerequisites: COB Honors only. Sophomore; SCMA250; 2.5 GPA; MATH 104,106,107 or 208; BSAD 220; ACCT 201 & 202; ECON 211 & 212; ECON 215 or equivalent. Prereqs differ for RAIKES,ACTS& ABUS mjrs. Credit toward the degree cannot be earned in both SCMA 350 and SCMA 350H.

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

Grading Option: Graded

Prerequisite for: ACCT 308; BSAD 340; FINA 401; MNGT 475; MNGT 475H, RAIK 476H; SCMA 437; SCMA 450; SCMA 451; SCMA 452; SCMA 453; SCMA 458; SCMA 459

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

Grading Option: Graded with Option

SCMA 395 Professional Internship

Crosslisted with: BSAD 395, ACCT 395, ACTS 395, ECON 395, FINA 395, MNGT 395

Prerequisites: An undergraduate major in the College of Business with at least sophomore standing and departmental consent and acceptance into an approved internship. Departmental credit for course cross-listings may have additional requirements for consent.

Notes: May be repeated.

Description: Provides an opportunity to study theories, principles, practices, techniques, and strategies utilized in the business field through an internship related to the major field of study and an integral or important part of their program of study. Reflect on classroom knowledge and develop practical experience in professional business situations through an approved internship.

Credit Hours: 0-3

Min credits per semester:

Max credits per semester: 3

Max credits per degree: 6

Grading Option: Graded with Option

Experiential Learning: Internship/Co-op

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

Grading Option: Pass No Pass

SCMA 396H Independent Study

Prerequisites: Good standing in the University Honors Program or by invitation; permission of instructor and department chair. Credit toward the degree cannot be earned in both SCMA 396 and SCMA 396H.

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

Grading Option: Pass No Pass

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

Grading Option: Graded

SCMA 432 Supply Chain Planning and Control Systems

Prerequisites: 2.5 GPA, SCMA 331, SCMA 335

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

Grading Option: Graded

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

Grading Option: Graded

SCMA 436 Project Management

Prerequisites: SCMA 331; 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

Grading Option: Graded

SCMA 437 Risk and Decision Analysis**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**Grading Option:** Graded**Course and Laboratory Fee:** \$40**SCMA 439 Global Sourcing and Distribution****Prerequisites:** 2.5 GPA; SCMA 331; SCMA 335**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**Grading Option:** Graded**SCMA 444 Supply Chain Logistics Management****Crosslisted with:** MRKT 444**Prerequisites:** SCMA 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 of 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**Grading Option:** Graded**Prerequisite for:** SCMA 474**SCMA 447 Supply Chain Technology****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**Grading Option:** Graded**SCMA 450 Communication for Business Analytics****Prerequisites:** SCMA 335 and SCMA 350**Notes:** The course is designed for students interested in Business Analytics in all business majors, as well as students who are primarily interested in the applications of computational modeling and statistical programming in fields such as engineering, basic sciences, sociology, psychology.**Description:** Introduction to intermediate and advanced approaches for business data visualization and communication in the context of analytics. Topics include best practices for explaining, summarizing and interpreting analysis, results, insights and recommendations in response to typical decision problems encountered in organizational settings across industries such as finance, healthcare, retail, and government. Consideration of methods for data visualization and dissemination of analytics-driven insights that are most appropriate for different areas of analytics, including descriptive, predictive and prescriptive approaches.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** FALL**Prerequisite for:** SCMA 454**SCMA 451 Introduction to Predictive Analytics****Prerequisites:** 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**Grading Option:** Graded**Prerequisite for:** MNGT 475; MNGT 475H, RAIK 476H**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**Grading Option:** Graded

SCMA 453 Machine Learning Applications for Business Analytics

Prerequisites: SCMA 350; GPA 2.5

Description: Introduction to techniques used for data exploration, data visualization and data mining, which support humans in identifying actionable information from large amounts of data. Demonstrates the process of machine learning and data mining for business applications, including data cleaning, transformation, partitioning, and validation. Methods covered include association rules, collaborative filtering and cluster analysis techniques. Methods will be implemented using relevant computing tools. In addition to unsupervised learning techniques, other machine learning concepts will also be introduced conceptually.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Offered: FALL/SPR

Prerequisite for: SCMA 454

SCMA 454 Business Analytics Applications in Practice

Prerequisites: SCMA 450 and SCMA 453; GPA 2.5

Notes: This is an experiential learning capstone course open only to students majoring in business analytics.

Description: Focuses on the application of the concepts of business analytics to problems encountered in real world settings. Engage with diverse types of organizations, including businesses, non-profit organizations and government agencies, to collect and analyze data with the objective of addressing a relevant problem and providing implementable solutions. Gain experience in communicating to stakeholders regarding data, analysis, results, and recommendations.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Offered: FALL/SPR

Experiential Learning: Case/Project-Based Learning

SCMA 458 Electronic Business

Prerequisites: SCMA 350; 2.5 GPA

Description: Management-related topics in electronic business. Conceptualizing and maintaining an e-business strategy. Economic impact of e-business strategies and management practices, models of e-business, electronic payment systems, Internet security, ethics and privacy, and advanced e-business trends and issues.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

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

Grading Option: Graded

SCMA 474 Strategic Supply Chain Management

Prerequisites: 2.5 GPA, Open to SCMA Majors Only, Senior Standing, SCMA 331, SCMA 335, SCMA 444

Description: Focus on the concepts and theories of Supply Chain Management through their application in real world settings. Engage in decision making through simulated applications and/or work with local/regional organizations to make improvements or explore opportunities for enhancing supply chain practice.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Experiential Learning: Student Teaching/Education Practicum

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

Grading Option: Graded with Option

Career Information

The following represents a sample of the internships, jobs and graduate school programs that current students and recent graduates have reported.

Transferable Skills

- Analytical Skills
- Problem-Solving/Critical Thinking Skills
- Quantitative Skills
- Computer Skills
- Written and Oral Communication Skills
- Teamwork
- Detail-Oriented
- Organizational Skills
- Interpersonal Skills

Jobs of Recent Graduates

- Operations Manager, Amazon - Seattle, WA
- Strategic Sourcing Management Trainee, BNSF Railway - Ft. Worth, TX
- Logistics Development Associate, ConAgra Brands - Omaha, NE
- Operations Associate, Crete Carrier - Lincoln, NE
- Supply Chain Management Professional Development Program, Northrop Grumman - Baltimore, MD
- Global Supply Chain Advanced Development Program, Schneider Electric - Columbia, SC
- Career Foundation Program- Operations Trainee, Smithfield Foods - Wilson, NC
- Supply Chain Manager, The Italian Vine Wine Distributors - Lincoln, NE
- Supplies Analyst, Union Pacific Railroad - Omaha, NE
- Fleet Manager, Werner Enterprises - Lincoln, NE

Internships

- Strategic Sourcing Intern, BNSF Railway - Fort Worth, TX
- Lean Management Intern, Case New Holland - Grand Island, NE
- Supply Chain Purchasing Intern, Great Northern Equipment Distribution - Rogers, MN
- Purchasing Intern, Kiewit - Lenexa, KS
- Sourcing Intern, Lincoln Industries - Lincoln, NE
- Supply Chain Intern, Methode Electronics - Rolling Meadows, IL
- Logistics Intern, Reliant Transportation - Lincoln, NE
- Intern, Union Pacific Railroad - Omaha, NE
- Rates and Pricing Intern, Werner Enterprises - Omaha, NE
- Intern, Xchanging Procurement - Chicago, IL