

Supply Chain Management (SCMT)

Brian Fugate
Department Chair
546 Willard J. Walker Hall
479-575-4051

J.B. Hunt Transport Department of Supply Chain Management Website
(<https://walton.uark.edu/departments/supplychain/>)

The J.B. Hunt Transport Department of Supply Chain Management offers an undergraduate major leading to a Bachelor of Science in Business Administration degree. The major is designed to prepare students for careers in carrier management, logistics management, and at retailers or in companies that manufacture, sell, and distribute consumer goods to retailers. There is an emphasis on business process integration and students will learn to apply analytical techniques and use the systems approach in managing the flow of materials into and through the production and manufacturing processes of a firm to its customers. Employment opportunities exist in marketing, sales, and operations positions with carriers in all transportation modes, and in positions with shippers having responsibility in one or more areas under logistics management, warehousing, packaging, and materials handling. Opportunities also exist in governmental agencies.

Students may elect to pursue the B.S.B.A. in Supply Chain Management or a Minor in Supply Chain Management in an online format. Students must apply to the University of Arkansas, Office of Admissions for consideration to enroll in the B.S.B.A. and indicate their interest in the online program on the admissions application. Students are required to submit official transcripts (either high school or college transcripts or both), and an application fee. Students interested in pursuing a minor must notify the Walton College Undergraduate Programs Office.

Requirements for B.S.B.A. in Supply Chain Management

Major Course Requirements

SCMT 34403	DELIVER: Transportation and Distribution Management	3
SCMT 36103	SOURCE: Procurement and Supply Management	3
SCMT 36203	PLAN: Inventory and Forecasting Analytics	3
SCMT 36603	MAKE: Supply Chain Process Improvement	3
SCMT 46503	Supply Chain Strategy and Change Management	3
SCMT 31003	Supply Chain Management Internship (Alternative industry-based work experience may be available as an exemption) (https://waltoncareers.uark.edu/internship-academic-credit-2/)	3
SCMT 36403	International Logistics	
SCMT 36503	Project Management: Supply Chain New Product Planning and Launch	
SCMT 36303	Supply Chain Service and Customer Management	
SCMT 400H3	Honors Supply Chain Management Colloquium	
SCMT 41003	Special Topics in Supply Chain Management	
SCMT 41203	Environmental, Social and Governance Strategies and Operations in Supply Chains	
SCMT 42303	Supply Chain Design and Optimization	

SCMT 46303 Supply Chain Performance Management and Analytics

Maximum of 27 hours of SCMT courses in department (core, major, elective). More than 27 hours allowed if the extra courses are part of interdisciplinary minor or collateral track.

Junior/Senior Business Electives

15

Supply Chain Management Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan for Information Systems should see the Eight-Semester Degree Policy (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy/>) in the Academic Regulations chapter for university requirements of the program.

Courses in **BOLD** must be taken in the designated semester. Although other courses listed are not required to be completed in the designated sequence, the recommendations below are preferred.

First Year	Units	
	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1) ³	3	
MATH 20503 Finite Mathematics (Satisfies General Education Outcome 2.1)^{1,3}	3	
BUSI 11101 Freshman Business Connection³	1	
SCMT 21003 Integrated Supply Chain Management²	3	
MGMT 21003 Managing People and Organizations²	3	
ISYS 11203 Business Application Knowledge - Computer Competency³	3	
BLAW 20003 The Legal Environment of Business (ACTS Equivalency = BLAW 2003)²		3
SPCH 10003 Public Speaking (ACTS Equivalency = SPCH 1003) (Satisfies General Education Outcomes 1.2 and 5.1)³		3
ACCT 20103 Accounting Principles³		3
BUSI 10303 Data Analysis and Interpretation³		3
Satisfies General Education Outcome 3.3:		
ECON 22003 Principles of Microeconomics (ACTS Equivalency = ECON 2203) ³ or ECON 21003 Principles of Macroeconomics (ACTS Equivalency = ECON 2103)		3
Year Total:	16	15

Second Year

Second Year	Units	
	Fall	Spring
ACCT 20203 Accounting Principles II ³ or SEVI 20503 Business Foundations	3	
Select one of the following:	3	
ISYS 21003 Business Information Systems ²		
FINN 20403 Principles of Finance ²		
MKTG 34303 Introduction to Marketing ²		
Satisfies General Education Outcome 3.3:		

ECON 21003 Principles of Macroeconomics (ACTS Equivalency = ECON 2103) or ECON 22003 Principles of Microeconomics (ACTS Equivalency = ECON 2203)	3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)	3	
Fine Arts/Humanities - State Minimum Core (Satisfies General Education Outcome 3.1 or 3.2) ^{5, 6}	3	

Social Sciences - State Minimum Core (Satisfies General Education Outcomes 3.3 and 4.1, as well as the Social Issues, Multicultural Environment and Demographic Diversity Requirement) ⁴	3	
---	---	--

MATH 22003 Survey of Calculus (ACTS Equivalency = MATH 2203)³	3	
3 hours general education elective	3	
Select one of the following:	3	
ISYS 21003 Business Information Systems ²		
FINN 20403 Principles of Finance ²		
MKTG 34303 Introduction to Marketing ²		
Science - State Minimum Core (Satisfies General Education Outcome 3.4)	4	

ALL pre-business requirements should be met by end of term		
Year Total:	15	16

Third Year	Units	
	Fall	Spring
Select one of the following:	3	
ISYS 21003 Business Information Systems ²		
FINN 20403 Principles of Finance ²		
MKTG 34303 Introduction to Marketing ²		
Science - State Minimum Core (Satisfies General Education Outcome 3.4)	4	
SCMT 34403 DELIVER: Transportation and Distribution Management	3	
SCMT 36103 SOURCE: Procurement and Supply Management	3	
30000/40000 level SCMT course from elective courses	3	
SCMT 36203 PLAN: Inventory and Forecasting Analytics	3	
SEVI 30103 Strategic Management (Satisfies General Education Outcome 6.1)	3	
SCMT 31003 Supply Chain Management Internship	3	
Junior/Senior Business Elective	3	
U.S. History or Government - State Minimum Core (Satisfies General Education Outcome 4.2)	3	
Year Total:	16	15

Fourth Year	Units	
	Fall	Spring
SCMT 36603 MAKE: Supply Chain Process Improvement	3	

Junior/Senior Business Elective	6	
General Education Electives	6	
SCMT 46503 Supply Chain Strategy and Change Management		3
Junior/Senior Business Electives		6
Fine Art/Humanities - State Minimum Core (Satisfies General Education Outcome 3.1 or 3.2)		3
Year Total:	15	12

Total Units in Sequence:		120
---------------------------------	--	------------

- ¹ Students have demonstrated successful completion of the learning indicators identified for learning outcome 2.1, by meeting the prerequisites for MATH 20503.
- ² Must be completed prior to SEVI 30103.
- ³ Must be completed prior to taking any 30000 or 40000 level business courses.
- ⁴ The Social Sciences Elective courses which satisfy General Education Outcomes 3.3 and 4.1, as well as the Social Issues, Multicultural Environment, and Demographic Diversity Requirement include: ANTH 10203, HIST 11193, HIST 11293, SOCI 10103, SOCI 101H3, or SOCI 20103 .
- ⁵ The Fine Arts Elective courses which satisfy the General Education Outcome 3.1 include: ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 100H3, MUSC 10103, MUSC 101H3, MUSC 13303, THTR 10003, or THTR 100H3.
- ⁶ The Humanities Elective courses which satisfy the General Education Outcome 3.2 include: AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, DANC 10003, ENGL 11103, ENGL 11203, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, or intermediate-level world language.

Supply Chain Management Minor for Business Students

The Department of Supply Chain Management offers a minor for Walton College students desiring more knowledge of supply chain management to assist them in their careers. The minor requires the completion of 15 hours of study from the following courses:

SCMT 34403	DELIVER: Transportation and Distribution Management	3
SCMT 36103	SOURCE: Procurement and Supply Management	3
Plus an additional nine hours of approved 3000/4000 level SCMT courses		9
Total Hours		15

Students who desire to earn a Supply Chain Management minor must notify the Walton College Undergraduate Programs Office of intent to pursue a minor. All requirements for the minor must be completed prior to the awarding of the student's undergraduate degree. All specific course prerequisites must be met. Each student must have a 2.00 cumulative grade-point average in the courses offered for the minor. All upper level minor requirements must be taken in residence.

Faculty

Aloysius, John, Ph.D. (Temple University), B.S. (University of Colombo, Sri Lanka), Professor, Oren Harris Chair in Logistics, 1995, 2017.

Bechtel, Don, B.A. (Lebanon Valley College), Instructor, 2006.

Dobrzykowski, David, Ph.D., M.B.A., B.B.A. (University of Toledo), Associate Professor, 2019.

Fugate, Brian, Ph.D., M.B.A., B.S. (University of Tennessee), Professor, Oren Harris Chair in Transportation, 2015, 2018.

Gabaldon, Janeth, Ph.D. (University of North Texas), Teaching Assistant Professor, 2023.

Hofer, Christian, Ph.D. (University of Maryland University College), B.A. (European School of Business), Associate Professor, 2007, 2012.

Kent, John, Ph.D. (University of Tennessee), M.B.A. (University of Dallas), B.S. (Henderson State University), Clinical Associate Professor, 2014, 2018.

Patterson, Kara, M.S. (University of Arkansas), Instructor, 2022.

Rosales, Claudia, Ph.D., M.S. (University of Cincinnati), B.S. (Universidad Rafael Landivar), Assistant Professor, 2021.

Rossiter-Hofer, Adriana, Ph.D. (University of Maryland-College Park), M.S. (Federal University of Rio de Janeiro, Brazil), B.S. (Federal University of Pernambuco, Brazil), Associate Professor, 2008, 2016.

Scott, Marc, Ph.D. (North Dakota State University), M.S., B.S. (South Carolina State University), Assistant Professor of Practice, 2016.

Shaheen, Iana, Ph.D., M.S. (University of South Florida), B.A. (National Research University Higher School of Economics, Moscow), Assistant Professor, 2020.

Singles, Nathan, M.S. (University of Arkansas), Instructor, 2022.

Thomas, Rodney W., Ph.D., M.B.A. (University of Tennessee), B.S.B.A. (Greensboro College), Associate Professor, 2017.

Thomas, Stephanie, Ph.D. (Georgia Southern University), M.B.A., B.A. (University of Tennessee), Associate Professor of Practice, 2017, 2022.

Thorne, Judith, B.S. (University of Houston), Instructor, 2023.

Tyler, Joel, M.B.A., B.A. (University of Arkansas), Instructor, 2019.

Van Hoek, Remko, Ph.D. (University of Utrecht), M.B.A. (London School of Economics), B.S.B.A. (Vanderbilt University), Clinical Professor, 2018.

Waller, Matthew A., Ph.D., M.S. (Pennsylvania State University), B.S. (University of Missouri–Columbia), Professor, Sam M. Walton Leadership Chair, 2002, 2007.

Williams, Brent D., Ph.D., M.S. (University of Arkansas), B.A. (Lyon College), Associate Professor, Garrison Chair in Supply Chain Management, 2011.

Williams, Donnie F., Ph.D. (Georgia Southern University), Clinical Associate Professor, 2019.

Courses

SCMT 21003. Integrated Supply Chain Management. 3 Hours.

An introduction to integrated supply chain management. Core capabilities in plan, source, make, deliver, service/customer management, new product design, strategy, governance, project management, performance management, technology enablement, and supply chain finance are explored to provide students with a comprehensive cross-functional view of demand-driven value networks. Corequisite: Walton College students: MATH 20503 or MATH 24004. Prerequisite: Non-business students: BUSI 10303, ACCT 20103 and (ECON 21003 or ECON 22003), all with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 210H3. Honors Integrated Supply Chain Management. 3 Hours.

An introduction to integrated supply chain management. Core capabilities in plan, source, make, deliver, service/customer management, new product design, strategy, governance, project management, performance management, technology enablement, and supply chain finance are explored to provide students with a comprehensive cross-functional view of demand-driven value networks. Corequisite: Walton College students: MATH 20503 or MATH 24004 and honors standing. Prerequisite: Non-business students: BUSI 10303, ACCT 20103 and (ECON 21003 or ECON 22003), all with a grade of C or better and honors standing. (Typically offered: Fall and Spring)

SCMT 31003. Supply Chain Management Internship. 3 Hours.

This experience is designed to give students an internship opportunity to combine their formal academic preparation with an exposure to the supply chain profession. Prerequisite: Department consent, completion of pre-business core, junior standing, and SCMT 21003 with a grade of C or better. (Typically offered: Fall, Spring and Summer)

SCMT 310H3. Honors Supply Chain Management Internship. 3 Hours.

This experience is designed to give students an internship opportunity to combine their formal academic preparation with an exposure to the supply chain profession. Prerequisite: Department consent, completion of pre-business core, junior standing, honors standing and SCMT 21003 with a grade of C or better. (Typically offered: Fall, Spring and Summer)

SCMT 34403. DELIVER: Transportation and Distribution Management. 3 Hours.

Management of functional delivery and customer service capabilities in demand-driven value networks. Applicable interfaces with enabling capabilities such as governance, performance management, analytics, and technology enablement are evaluated. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 36103. SOURCE: Procurement and Supply Management. 3 Hours.

This course covers the critical sourcing and procurement processes: strategic sourcing, source to pay, and supplier relationship management. Additionally, it covers innovative efforts to grow sourcing contribution to demand-driven supply chain integration, including sustainability, technology, and risk management. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 36203. PLAN: Inventory and Forecasting Analytics. 3 Hours.

The intent of this course is to rigorously examine two key elements of logistics: inventory control and forecasting. Coverage of the former topic specifically focuses on inventory control methods for stochastic demand and lead times. Besides a review of the associated theoretical bases, the implementation of such policies in Excel is a central component of the course. Forecasting topics covered in this course include a review of a variety of forecasting techniques and forecast error measurement. Moreover, the linkage between forecasting and inventory control is discussed. As with inventory control, students will learn how to implement various forecasting techniques in Excel. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 36303. Supply Chain Service and Customer Management. 3 Hours.

Management of supply chain service quality, relationships, and customer segmentation in demand-driven value networks. Applicable cross-functional interfaces, performance measurement, and integration opportunities for boundary spanning supply chain professionals are discussed with emphasis on value-added behavioral exchange dynamics. Prerequisite: SCMT 36103. (Typically offered: Irregular)

SCMT 36403. International Logistics. 3 Hours.

Logistics activities in international business with special emphasis on international sourcing and distribution channels, international transportation, import and export procedures, international sale and payment terms, and documentation. Special emphasis is placed on current events and their effect on the management of operations of U.S.-based organizations. Prerequisite: ((ECON 21003 and ECON 22003), or ECON 21403) and SCMT 21003 with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 36503. Project Management: Supply Chain New Product Planning and Launch. 3 Hours.

Applies principles and tools of project management to supply chain industry projects in the new product development launch process to ensure alignment with supply chain processes. Experiential learning in collaborative team settings facilitate new product development and launch solutions to demand-driven value network problems. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 36603. MAKE: Supply Chain Process Improvement. 3 Hours.

The course focuses on the fundamental concepts, techniques, and tools for managing production and improving business processes across the supply chain, in both manufacturing and service contexts. Philosophies, principles, approaches, and techniques students will learn and experience in this course include Lean, Total Quality Management, Theory of Constraints, Practical Scientific Thinking, and Toyota Kata. Prerequisite: SCMT 21003 with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 400H3. Honors Supply Chain Management Colloquium. 3 Hours.

Explores events, concepts and/or new developments in the field of Supply Chain Management. Prerequisite: Honors standing and ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Irregular) May be repeated for up to 6 hours of degree credit.

SCMT 41003. Special Topics in Supply Chain Management. 3 Hours.

Special topics in supply chain management not available in other courses. Topics are selected by the supply chain faculty for each semester each course is offered. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Irregular)

SCMT 41103. Supply Chain Management Executive in Residence. 3 Hours.

The focus of this course will be executive viewpoints in supply chain management as it relates to relational skill development. The growth of supply chain management has resulted in the need for relational skills and capabilities for supply chain professionals. The purpose of the course is to help students identify not only the current issues of the industry, but also gather various viewpoints about the topics. Each week, an executive will speak with students on a topic of his or her choice. The goal is to allow a broad collection of issues to be presented by and to the students. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 41203. Environmental, Social and Governance Strategies and Operations in Supply Chains. 3 Hours.

Environmental, Social and Governance (ESG) issues can carry significant supply chain challenges, risks, and opportunities. This course focuses on the relationship between ESG and supply chain planning, sourcing, manufacturing and service operations and logistics. Topics may include values-based leadership; globalizing social and environmental sustainability; diversity, inclusion and ethics across the supply chain; and voluntary product standards and governance, stakeholder engagement, reverse logistics, humanitarian logistics, ethical sourcing, transparency, innovation, resource scarcity, waste reduction, carbon emissions, and human rights across the extended supply network. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Irregular)

SCMT 42303. Supply Chain Design and Optimization. 3 Hours.

This course focuses on supply chain network design and the underlying strategies needed to manage a supply chain as business conditions change and evolve. The purpose of this course is to provide the student with supply chain design thinking skills that they can employ to design solutions that optimize supply chain performance considering costs, constraints, and structure. The course is a combination of lecture and supply chain optimization case studies (network, transportation, and inventory). Prerequisite: SCMT 34403 and SCMT 36203. (Typically offered: Fall and Spring)

SCMT 46303. Supply Chain Performance Management and Analytics. 3 Hours.

Integrates the strategic directives and successful execution by using supply chain performance management and analytics to drive supply chains from end-to-end. Examines and applies data analytics and visualization tools to better manage conflicting supply chain objectives and trade-offs. Prerequisite: SCMT 21003 with a grade of "C" or better. (Typically offered: Fall and Spring)

SCMT 46503. Supply Chain Strategy and Change Management. 3 Hours.

Evaluate and select appropriate supply chain strategies and change management approaches for business situations. This capstone course leverages plan, source, make, deliver, customer service, and new product development capabilities to meet strategic and financial goals in demand-driven networks. Prerequisite: SCMT 34403, SCMT 36103 and SCMT 36203. (Typically offered: Fall and Spring)

SCMT 4660V. Independent Study in Supply Chain Management. 1-3 Hour.

Permits students to explore selected topics in supply chain management, logistics and transportation. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Fall and Spring)

SCMT 48503. Cross-Sector Collaboration for Sustainability. 3 Hours.

This course explores how organizations in the three sectors of society work together in value creation by addressing social and environmental problems manifest in global supply chains. Focusing on business and nonprofit organizations, we investigate the forces that bring about and influence these collaborations from practical and theoretical perspectives. Prerequisite: ((ECON 21003 and ECON 22003) or ECON 21403) and SCMT 21003 each with a grade of C or better. (Typically offered: Spring)