

# **BROAD** COLLEGE *of* BUSINESS



**Xuesi Li**

Graduate, M.S. in Supply  
Chain Management

## **Master of Science in Supply Chain Management**

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THE HISTORY OF

# Michigan State University

Founded in 1855 on the ideals of democratization of knowledge and empowering people through education, Michigan State is an inclusive, internationally recognized university with a mission of advancing knowledge and transforming lives. MSU is the nation's pioneer land-grant university. Today, this world-class university is adapting its traditional principles to 21st century challenges. MSU's success traces back to its mission and core values: quality, inclusiveness and connectivity. These interconnected values are what set the university apart. Its commitment to inclusion embraces opportunities for everyone ensuring that individuals from ordinary backgrounds with extraordinary talents and determination can transform their lives with advanced education.

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**Learn from the  
leader in SCM  
education.**



VISION. MISSION. PHILANTHROPY.

# Eli Broad College of Business

## Vision

To be a top-of-mind business school as reflected by the recognition of our brand, the reputation of our people and the rankings of our programs.

## Mission

We create and disseminate knowledge through collaborative relationships while developing transformational leaders who make business happen.

## Venture Philanthropist

Eli Broad was committed to business education at Michigan State University. Mr. Broad was a renowned business leader who built two Fortune 500 companies from the ground up over a five-decade career in business. He founded both SunAmerica Inc. and KB Home (formerly Kaufman and Broad Home Corporation).



# How Does it Work?

Our faculty work with learning design experts to combine the rigor of the on-campus curriculum with the interactivity of online learning in every program. In our user-friendly learning platforms, each course is designed to maximize interaction and collaboration with classmates and instructors.



## Online Video Lectures

Watch and learn from faculty and industry professionals as they deliver interactive lectures and course material via online streaming video. Pause, rewind and review any portion of the lecture so you completely understand the material before you move on.



## Interactive Learning Material

In addition to video lectures, classes may feature interactive content such as engaging presentations, quizzes, infographics, podcasts and more that immerse you in a multimedia learning environment. Our variety of instructional content is designed to engage different learning styles, whether you prefer reading presentations or listening to lectures.



## Classroom Interaction

Discussion boards, group study, chat rooms, live lectures and email provide many ways to connect to your classmates and faculty. Build connections all over the world through group projects and learn from the different perspectives of professionals in your field.



## Flexible Schedule

Enjoy the convenience of accessing your learning material anytime and anywhere with an internet connection from your computer, tablet or mobile device.



## Online with Residency Sessions

The flexible format specific to Michigan State University's M.S. in Supply Chain Management blends online convenience with a hands-on, face-to-face applied learning experience. You will attend three three-day weekend sessions at cutting-edge MSU facilities on and around the campus.\* There, as part of your course curriculum, interactive case studies and on-site simulation assignments allow you to work alongside other students and MSU's faculty.

# M.S. in Supply Chain Management

Learn From The Supply Chain Leader



With a leading supply chain curriculum, strengthened by the valuable insight and expertise of MSU's award-winning faculty, this program takes a comprehensive, "big picture" approach to supply chain management. You'll gain a deeper understanding of supply chain strategies and technologies, explore alternative approaches to developing customer value and establish an integrated view of procurement, operations and logistics management. You'll also build and refine the advanced competencies today's SCM professionals can benefit from, such as applying data analysis to decision making and leveraging information systems to maximize supply chain success.

The program's unique online with residency sessions format combines the convenience of online courses with strategically placed face-to-face sessions — ideal for the working supply chain professional. Interactive case studies, breakout sessions and simulation assignments on-site allow you to collaborate and network with fellow supply chain professionals, providing you with an invaluable hands-on, applied learning experience unlike any other.

As an MS SCM student, you'll prepare for future success in your supply chain management career, while positively impacting performance today. This program is designed for supply chain managers and executives who are ready to experience the career benefits an MSU SCM graduate degree can provide. Ideal candidates have a high degree of advancement potential into an organizational leadership role and possess important personal attributes.

# Course Descriptions

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## **Introduction to Logistics and Supply Chain Management**

In the Intro to Logistics and Supply Chain Management course, students will learn why logistics, operations and procurement are essential components within the supply chain and how together they work to deliver value to the customer. Taught by Dr. Judith Whipple, Bowersox-Thull Endowed Professor of Logistics and Supply Chain Management and Faculty Director of the Master of Science in Supply Chain Management program, students will explore concepts crucial to understanding the fundamentals of supply chain management, including product flow, procurement, sourcing, forecasting, demand fulfillment, reverse logistics, production and operations management, as well as discover tools and techniques for analyzing and improving supply chain processes. By the end of the course, students should expect to have a thorough understanding of the flow of products from raw material sourcing and acquisition through delivery to the final customer.

## **Global Supply Chain Management**

Global Supply Chain Management is designed to help students better understand a firm's global supply chain strategy. This course helps students understand decision-making strategies regarding the planning and operational aspects of global supply chains. You will learn to identify and leverage industry globalization drivers, explain worldwide infrastructures for supply chains and understand the logistics for purchasing and operations internationally. This course is open to master's students in the Supply Chain Management major and is available on demand.

## **Distribution Fulfillment**

Distribution Fulfillment teaches students how to manage a firm's value creation from initial product development through consumption. You will explore alternative approaches to developing customer value with an emphasis on transportation and the role of the supply chain in creating order fulfillment strategies. Topics will include examining motor carrier operations, importing strategies, aggregate inventories, operational issues in order fulfillment, international issues in distribution and ordering and strategies in fulfillment for brick-and-mortar retail. The course is open to master's students in the Supply Chain Management major who have completed SCM870.

## **Applied Data Analysis**

Applied Data Analysis gives students a familiarity with quantitative and statistical methods which are widely used in the supply chain, operations, logistics and similar business-related functions. This course begins with a statistics tutorial to explain basic foundations, followed by in-depth study of hypothesis testing, regression and correlation analysis, linear programming and forecasting from analytics. By the end of the course, you will have the opportunity to perform case analyses by applying the methods you've learned. This course is open to master's students in the Supply Chain Management major and is offered in the fall, spring and summer terms.

## **Communication in Supply Chain Management**

Communication in Supply Chain Management focuses on helping students develop the interpersonal skills to excel in business settings, including presentations and interviews. You'll explore casual conversation in relationship development, the role of customer engagement and critical conversations, how to adjust communication styles to the situation, problem-solving and negotiation and many more critical topics to help you be a confident leader in Supply Chain Management. This course is open to master's students in the Supply Chain Management major with the approval of the department.

## **Manufacturing Planning and Control**

Manufacturing Planning and Control examines the functions required to match supply and demand in a manufacturing firm. You will explore the concepts needed in manufacturing planning and control, with emphasis on both short- and long-term demand forecasting, aggregate planning, cycle and safety inventory management, productivity analysis and sourcing and ordering policies. The role of information and modeling for inventory planning will be discussed as well as how to identify factors in forecasting and evaluating suppliers when making decisions. This course is open to master's students in the Supply Chain Management major who have completed SCM870.

## **Strategic Sourcing**

Strategic Sourcing is intended to provide students with an understanding of the fundamentals of sourcing and how it forms the foundation of a company's supply chain. It explores the integration and coordination of product innovation, sourcing, manufacturing, distribution and logistics for global competitiveness. The course provides insight into what strategic sourcing means to a firm, the importance of establishing a supplier portfolio, developing collaborative relationships with suppliers and leveraging capabilities with supply chains. This course is open to master's students in the Supply Chain Management major, offered in the fall, spring and summer.

## **Total Quality Management and Lean Enterprise**

TQM and Lean Enterprise is designed to help students develop and lead an efficient enterprise. You will study total quality management tools and practices and lean systems that focus on cost reduction, minimizing waste and quality improvement. The curriculum is focused on how to identify variance and reduce waste within the workplace structure and explores how to measure performance with the correct data to capture loss in a timely manner. This course is open to master's students in the Supply Chain Management major who have completed SCM870 and is offered in the fall, spring and summer terms.

## **Logistics Operations Methods and Systems**

Logistics Operations Methods and Systems focuses on the microanalysis of logistics and transportation including customer service, order fulfillment, distribution, purchasing and operation of transportation services and supply chain strategy. You'll develop a detailed understanding of how logistics management integrates and coordinates all logistics activities. You will also explore how to integrate logistics with other functions including marketing, sales, manufacturing, IT and finance. Complete the course with the knowledge to define the components of the logistics system, explain the relationship between logistics and other business systems, summarize the changing role of logistics in the global marketplace and illustrate network design basics and supply chain strategies. This course is open to master's students in the Supply Chain Management major who have completed SCM870.

## **Technology and Product Innovation Management**

In Technology and Product Innovation, students study the analysis and decision-making techniques that go into assessing new product innovations for a profitable high-tech company. Product planning concepts, tools and techniques and product development processes will be reviewed prior to live course sessions. These sessions apply concepts covered in the reviews and discuss case studies within organizations — detailing their strategies for innovation, planning, marketing and execution of design. This course is open to master's students in the Supply Chain Management major and intended for those focusing on the management of technology and product development. It is offered online in the fall, spring and summer terms.

## **Field Study/Research Project**

The Field Study/Research project is designed to help students apply the knowledge gained during the Master of Science in Supply Chain Management program to research, analyze and develop a viable solution to an existing problem or opportunity within your organization. You are encouraged to work with your organization's management team to identify a project area, gain support and develop a topic for study or research. All topics must be approved by the instructor prior to the start of the project. Upon completion, you will prepare a report detailing your analysis, results and recommendations. The course is offered in the fall and spring terms and is open to master's students in Supply Chain Management who have completed SCM870, with a recommended completion of 21 credits in MS-SCM.

## **Analysis of Supply Chain Management and Supplies**

Analysis of Supply Chain Management reviews how companies develop and design "category sourcing strategies" to support their business operations. You will examine why the design of a company's supply base is important and how to evaluate and assess suppliers when developing the supply base. Other elements of sourcing strategies that will be covered include cost modeling, identifying and mitigating supply chain risk, finance, digital procurement and collaborative supplier relationships. This course is open to master's students in the Supply Chain Management major and is offered in the fall, spring and summer terms.

## **Strategy and Applications**

Students in Strategy and Applications explore the analysis and solution of supply chain management cases and simulations. This is the capstone class to MSU's Master of Science in Supply Chain Management and integrates material from throughout the program. You will discuss the fundamental building blocks of routing, vehicle routing and facility location modeling using techniques covered in previous courses. During a three-day on-site logistics simulation, you will also engage in a dynamic supply chain simulation allowing you to operate a supply chain across nine time periods. This course fully explores the teamwork, communication and job skills that are essential for leadership in the field and is open to master's students in Supply Chain Management who have completed SCM870. 15 credits in MS-Supply Chain Management are recommended.



COURSES	CREDITS
Introduction to Logistics and Supply Chain Management	3
Global Supply Chain Management	2
Distribution Fulfillment	2
Applied Data Analysis	3
Communication in Supply Chain Management	2
Manufacturing Planning and Control	2
Strategic Sourcing	2
Total Quality Management and Lean Enterprise	3
Logistics Operations Method and Systems	2
Technology and Product Innovation Management	2
Field Study/Research Project	3
Analysis of Supply Market and Supplies	2
Strategy and Applications	3

\*\$1,850 per credit hour plus \$1,950 in room and board fees for three required on-site sessions.

### On-site Visit Cost

All program fees are included in the tuition. The MS SCM tuition will also cover two nights of accommodations (Saturday and Sunday nights) and some meals during each of the required on-site visits throughout the program. The program director will be responsible for coordinating the accommodation arrangement for the students. Students will be responsible for any travel and/or additional material costs for their on-site sessions.

# Savings and Assistance Available

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## Corporate Tuition Assistance

Corporate tuition assistance is paid by your employer. You will need to provide appropriate forms for processing, prior to enrollment. Air Force tuition assistance is available for active-duty servicemembers. You will need to provide a valid military tuition assistance voucher. Both TA options are subject to employer benefit policies.

## Federal Student Aid – You Could Qualify for Up to \$20,500 a Year Toward Your Degree

Federal student aid programs are the largest source of student aid in America. Take advantage of this opportunity by determining your eligibility with the Free Application for Federal Student Aid (FAFSA). For more information, visit [msuonline.com](https://msuonline.com), email [finaid@msu.edu](mailto:finaid@msu.edu) or call 517-353-5940.

## Federal Direct (Stafford/Ford) Loans

Federal Direct Loans are available to graduate degree students and must be repaid - typically via installment payments upon graduation. Students are eligible to borrow up to \$20,500 per year.\*

## Alternative Loans

Many financial institutions offer student loans that can supplement your other sources of financial aid and make it easier to manage your education expenses. Check with your bank or credit union to see if it has a student loan program. You can also research lenders on the Internet. Students are advised to compare loan programs before choosing a lender. Interest rates, fees and other provisions of these programs are subject to change by the lender. Contact lenders directly for detailed information on individual loan products.

## Convenient Payment Options

All major credit cards are accepted for tuition payments and related expenses. To help minimize finance charges, Michigan State University offers several interest-free payment options that divide tuition and other fees into multiple payments over the course of each term.

## Military Tuition Assistance

The U.S. Military's tuition assistance program pays up to 100% of tuition fees for full-time, active-duty servicemembers in any branch of the military, up to a maximum of \$250 per credit hour and a personal maximum of \$4,500 per fiscal year for each student.

## Post-9/11 G.I. Bill®, Montgomery G.I. Bill® and Educational Assistance Programs

Federal Direct Loans are available to graduate degree students and must be repaid - typically via installment payments upon graduation. Students are eligible to borrow up to \$20,500 per year.\*

## Exclusive Military Savings

Active-duty servicemembers, Guardsmen, Reservists, Veterans, military spouses, and dependents of deceased or disabled veterans are eligible to receive 10% off the graduate course tuition.

Reductions are valid off the standard tuition and program fee rate of any degree or certificate offered through Bisk Education. This reduction is not stackable with other reductions, and you may not use this reduction in conjunction with other reductions.

## College Fund Programs

The Department of Defense offers a College Fund program – also referred to as a G.I. Bill® Kicker – that can increase a servicemember's basic monthly education benefit. Each service branch determines eligibility and benefit amounts for its College Fund. This benefit is an add-on to the G.I. Bill® and disbursed with an individual's monthly G.I. Bill® payments.

## College Loan Repayment Program

The College Loan Repayment Program is an enlistment incentive offered by several branches of the U.S. Military and Reserves. It repays a portion of eligible student loans for non-prior service enlisted personnel. The program is currently offered by the Army, Navy and Air Force, as well as the Army and Navy Reserves.

Information is subject to change without notice or obligation. GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at [www.benefits.va.gov/gibill](http://www.benefits.va.gov/gibill).

\*Maximum yearly loan award amounts are up to the amount listed above. Receipt of financial aid is not a guarantee and is dependent on the individual financial needs of the student. For more information please visit [www.studentaid.ed.gov](http://www.studentaid.ed.gov).



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