Global Supply Chain Management, B.S.B.A.D.

Degree Offered

- Bachelor of Science in Business Administration

Nature of the Program

Global Supply Chain Management (GSCM) is a challenging and rewarding professional field that has become critical to successful companies and will continue to grow in importance, offering a broad range of career opportunities across a wide range of industries. Supply chain roles and responsibilities comprise a vast array of business functions, such as demand planning, inventory control, customer fulfillment, logistics, freight, warehousing, production planning, purchasing, sourcing, among others. The Global Supply Chain Management program at WVU provides an integrated end-to-end perspective and prepares students to view the chain of supplies as a complex and global system. Through experiential learning activities, projects with industry and government, and interaction with supply chain professionals, the program prepares students to identify critical interdependencies to lead supply chain activities effectively, rethink supply chain processes to improve performance, strategically integrate technology and innovate, and make ethical supply chain decisions. The curriculum and activities focus not only on the core technical knowledge but also on the essential leadership skills needed for a successful career in this exciting and increasingly critical field.

Entry-level job opportunities include:

- Area manager
- Business analyst
- Buyer/planner
- Category analyst
- Consultant
- Freight coordinator
- Inventory manager
- Logistics manager
- Materials planning manager
- Operational performance analyst
- Operations supervisor
- Production planning
- Supply chain analyst
- Supply chain manager

ADMINISTRATION

GLOBAL SUPPLY CHAIN MANAGEMENT PROGRAM COORDINATOR

- Ednilson Bernardes - Ph.D.
  University Minnesota

FACULTY

CHAIR

- Javier Reyes - Ph.D. (Texas A&M University)

GSCM PROGRAM COORDINATOR, PROFESSOR

- Ednilson Bernardes - Ph.D. (University of Minnesota)
  Supply Chain Management

ASSOCIATE PROFESSOR

- John Saldanha - Ph.D. (Penn State University)
  Supply Chain Management

ASSISTANT PROFESSOR

- Bo Lan - Ph.D. (Iowa State University)
TEACHING ASSISTANT PROFESSOR

• Jeremy Roberts - Ph.D.

Admissions

For specific information regarding the admissions requirements for First Time Freshmen to the John Chambers College of Business and Economics, please visit http://catalog.wvu.edu/undergraduate/collegeofbusinessandeconomics/#admissionstext.

Students who are direct admitted to the major as first-time freshmen must possess an overall GPA of at least 2.5 and have completed the course prerequisites listed in the table below with minimum grade of C-, unless otherwise noted, to be eligible to enroll in upper-division course work.

Students who are not direct admitted to the major (i.e. Business) will declare the major at the beginning of the semester in which they satisfy the course prerequisites listed below. Applicants also must possess an overall GPA of at least 2.5 to be considered for admission to the major.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Accounting 1</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ACCT 202</td>
<td>Principles of Accounting 2</td>
<td></td>
</tr>
<tr>
<td>BCOR 121</td>
<td>Introduction to Business Applications</td>
<td>2</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ECON 202</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 225</td>
<td>Elementary Business and Economics Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 211</td>
<td>Elementary Statistical Inference</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Introduction to Composition and Rhetoric</td>
<td>3-6</td>
</tr>
<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
<td></td>
</tr>
<tr>
<td>or ENGL 103</td>
<td>Accelerated Academic Writing</td>
<td></td>
</tr>
<tr>
<td>Choose one of the Following:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Algebra with Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 126</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 129</td>
<td>Pre-Calculus Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 153</td>
<td>Calculus 1a with Precalculus</td>
<td></td>
</tr>
<tr>
<td>Choose one of the Following:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 150</td>
<td>Applied Calculus *</td>
<td></td>
</tr>
<tr>
<td>MATH 154</td>
<td>Calculus 1b with Precalculus *</td>
<td></td>
</tr>
<tr>
<td>MATH 155</td>
<td>Calculus 1 *</td>
<td></td>
</tr>
<tr>
<td>MATH 156</td>
<td>Calculus 2 *</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 26-31

* A minimum grade of B- in MATH 150 is required for admission to the program. A grade of C- in MATH 154 or a higher college calculus course satisfies the calculus requirement.

Students who are direct admitted to the major and meet the requirements listed above are guaranteed permission to enroll in upper-division course work. The Chambers College will accommodate as many majors as resources are available. Students who are denied admission to the major may apply for admission in a future application period or accept admission to an alternative major in the Chambers College.

Due to Covid-19 – Admission requirements may differ from what is listed on this page. Please review the most up-to-date program admission requirements for the Bachelor of Science in Business Administration in Global Supply Chain Management (https://admissions.wvu.edu/academics/majors/global-supply-chain-management/) major.

ADMISSION REQUIREMENTS 2022-2023

The Admission Requirements above will be the same for the 2022-2023 Academic Year.

Major Code: 2161

Click here to view the Suggested Plan of Study (p. 4)

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (http://registrar.wvu.edu/gef/)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.
General Education Foundations

<table>
<thead>
<tr>
<th>F1 - Composition &amp; Rhetoric</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to Composition and Rhetoric</td>
</tr>
<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
</tr>
<tr>
<td>or ENGL 103</td>
<td>Accelerated Academic Writing</td>
</tr>
</tbody>
</table>

| F2A/F2B - Science & Technology | 4-6 |
| F3 - Math & Quantitative Reasoning | 3-4 |
| F4 - Society & Connections | 3 |
| F5 - Human Inquiry & the Past | 3 |
| F6 - The Arts & Creativity | 3 |
| F7 - Global Studies & Diversity | 3 |
| F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree) | 9 |

Total Hours: 31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Degree Requirements

University Requirements: 31
Program Requirements: 26
Business Core Requirements: 33
Global Supply Chain Management Major Requirements: 30
Total Hours: 120

University Requirements

General Education Foundations (GEF) 1, 2, 3, 4, 5, 6, 7, and 8 (31-37 Credits)
Outstanding GEF Requirements 2, 5, 6, and 7: 13
BCOR 191: First-Year Seminar: 1
General Electives: 17
Total Hours: 31

Program Requirements

ACCT 201: Principles of Accounting 1 (Minimum grade of C-): 3
ACCT 202: Principles of Accounting 2 (Minimum grade of C-): 3
BCOR 121: Introduction to Business Applications (Minimum grade of C-): 2
ECON 201: Principles of Microeconomics (Minimum grade of C-; may fulfill GEF 8): 3
ECON 202: Principles of Macroeconomics (Minimum grade of C-; may fulfill GEF 8): 3

Select one of the following (Minimum grade of C-; may fulfill GEF 1): 3-6

<table>
<thead>
<tr>
<th>ENGL 101</th>
<th>Introduction to Composition and Rhetoric</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
</tr>
<tr>
<td>ENGL 103</td>
<td>Accelerated Academic Writing</td>
</tr>
</tbody>
</table>

Select one of the following (Minimum grade of C-; may fulfill GEF 8): 3

<table>
<thead>
<tr>
<th>ECON 225</th>
<th>Elementary Business and Economics Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 211</td>
<td>Elementary Statistical Inference</td>
</tr>
</tbody>
</table>

Select one of the following; minimum grade of B- in MATH 150 or C- in MATH 154 or higher; (may fulfill GEF 3): 3-8

<table>
<thead>
<tr>
<th>MATH 124</th>
<th>Algebra with Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp; MATH 150</td>
<td>and Applied Calculus</td>
</tr>
<tr>
<td>MATH 129</td>
<td>Pre-Calculus Mathematics</td>
</tr>
<tr>
<td>&amp; MATH 155</td>
<td>and Calculus 1</td>
</tr>
<tr>
<td>MATH 150</td>
<td>Applied Calculus</td>
</tr>
<tr>
<td>MATH 153</td>
<td>Calculus 1a with Precalculus</td>
</tr>
<tr>
<td>&amp; MATH 154</td>
<td>and Calculus 1b with Precalculus</td>
</tr>
</tbody>
</table>
Global Supply Chain Management, B.S.B.A.D.

MATH 155  Calculus 1

Total Hours  26

Business Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOR 199</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 299</td>
<td>Business Communication (Fulfills Writing and Communication Skills Requirement)</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 320</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 330</td>
<td>Information Systems and Technology</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 340</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 360</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 370</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 380</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 460</td>
<td>Contemporary Business Strategy</td>
<td>3</td>
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</table>

Select one of the following (may fulfill GEF 4):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
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</table>

Total Hours  33

Global Supply Chain Management Major Requirements

Possess a minimum GPA of 2.0 for all major courses calculated using all attempted GPA hours unless excluded by the D/F repeat policy.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 331</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 350</td>
<td>Sourcing and Supply Management</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 355</td>
<td>Logistics and Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 360</td>
<td>Supply Chain Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 370</td>
<td>Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 425</td>
<td>Supply Chain Network Design</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 430</td>
<td>Supply Chain Technology</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 450</td>
<td>Supply Chain Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 455</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 470</td>
<td>Global Supply Chain Systems</td>
<td>3</td>
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</table>

Total Hours  30

Suggested Plan of Study

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOR 199</td>
<td>3</td>
<td>3 ACCT 201</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 191</td>
<td>3</td>
<td>1 ECON 201 (GEF 8)</td>
<td>3</td>
</tr>
<tr>
<td>BCOR 121</td>
<td>3</td>
<td>2 ENGL 101 (GEF 1)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following (GEF 3):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 124</td>
<td>3</td>
</tr>
<tr>
<td>MATH 129</td>
<td>3</td>
</tr>
<tr>
<td>MATH 150</td>
<td>3</td>
</tr>
<tr>
<td>MATH 153</td>
<td>3</td>
</tr>
<tr>
<td>MATH 155</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following (GEF 4):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>3</td>
</tr>
</tbody>
</table>

GEF (Choose from F2B, F5, F6 or F7)  3

Total  15
Global Supply Chain Management, B.S.B.A.D.

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 202</td>
<td>3</td>
<td>BCOR 299</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202 (GEF 8)</td>
<td>3</td>
<td>BCOR 330</td>
<td>3</td>
</tr>
<tr>
<td>ECON 225 (GEF 8)</td>
<td>3</td>
<td>BCOR 340</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102 (GEF 1)</td>
<td>3</td>
<td>BCOR 350</td>
<td>3</td>
</tr>
<tr>
<td>GEF (Choose from F2B, F5, F6, or F7)</td>
<td>3</td>
<td>BCOR 370</td>
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</table>

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Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOR 360</td>
<td>3</td>
<td>ACCT 331</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 350</td>
<td>3</td>
<td>BCOR 380</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 355</td>
<td>3</td>
<td>GSCM 360</td>
<td>3</td>
</tr>
<tr>
<td>GEF (Choose from F2B, F5, F6 or F7)</td>
<td>3</td>
<td>GSCM 370</td>
<td>3</td>
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<tr>
<td>Minor or General Electives</td>
<td>3</td>
<td>Minor or General Electives</td>
<td>3</td>
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</tbody>
</table>

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Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOR 320</td>
<td>3</td>
<td>BCOR 460</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 425</td>
<td>3</td>
<td>GSCM 455</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 430</td>
<td>3</td>
<td>GSCM 470</td>
<td>3</td>
</tr>
<tr>
<td>GSCM 450</td>
<td>3</td>
<td>Minor or General Electives</td>
<td>6</td>
</tr>
<tr>
<td>Minor or General Electives</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15 15

Total credit hours: 120

Major Learning Outcomes

GLOBAL SUPPLY CHAIN MANAGEMENT

Students who successfully complete the program will be prepared and competitive for entry-level positions in areas pertaining to supply chain management. These jobs include areas such as materials project manager, sourcing leader, supply chain analyst, production analyst, logistics planning, shipping and delivery management, among others.

- Graduates from the program will have the knowledge and skills to manage and coordinate all supply chain functions in an enterprise, from overseeing acquisition, internal allocation of resources, movement and storage of raw materials and inventory, to managing complex networks of supply and demand.
- They will have the knowledge and skills to lead supply chain improvement projects, to function in supply chain teams, and to perform or lead supply chain activities.
- Graduates will be able to recognize the systemic and global nature of supply chain processes and activities in the decision-making process, the interdependencies critical to effectively manage and improve performance, the role of supply chain information technology in the effective management and improvement of supply chain activities, and the complexities of global supply chain operations and related ethical issues.
- In addition, students will recognize the great potential that supply chain activities and decisions offer in terms of making a positive contribution not only to the improvement of business performance but also to society.

COURSES

GSCM 350. Sourcing and Supply Management. 3 Hours.
PR or CONC: BCOR 360. Critical managerial issues in sourcing and supply management operations, structure, and processes, and supporting tools. Ethical, legal, and contractual issues pertaining to the global scope of this important set of business processes.

GSCM 355. Logistics and Distribution Management. 3 Hours.
PR or CONC: BCOR 360. Critical managerial issues in the implementation and control of forward and reverse flow and storage of goods, services, and related information between the point of origin and the point of consumption.

GSCM 360. Supply Chain Analytics. 3 Hours.
PR: GSCM 350 with a grade of C- or better and GSCM 355 with a grade of C- or better. A survey of the broad spectrum of mathematical modeling methodologies available to supply chain analysts for solving supply chain problems.
GSCM 370. Transportation Management. 3 Hours.
PR: GSCM 350 with a grade of C- or better and GSCM 355 with a grade of C- or better. An introductory study of the wide range of issues facing supply chain professionals in transportation. This includes the impact of transportation systems in the economy, regulations, and management of distinct transportation modes with focus on the U.S. domestic transportation systems.

GSCM 425. Supply Chain Network Design. 3 Hours.
PR: GSCM 360 and GSCM 370. An in-depth study of how to parse supply chain problems into a network design formulation and how to collect appropriate data to use on these models. Students will also learn how to validate, debug, and test the sensitivity of models to various input and model assumptions.

GSCM 430. Supply Chain Technology. 3 Hours.
PR: GSCM 370. A comprehensive study of the strategic and operational use of main supply chain technologies. This includes dependencies and linkages between the various technologies, best practices, and potential pitfalls.

GSCM 450. Supply Chain Quality Management. 3 Hours.
PR: GSCM 350 and GSCM 355. Critical managerial issues in the organizational and behavioral dimensions of quality management systems and their application to simplify and improve supply chain processes, as well as key supporting methodologies and tools.

GSCM 455. Project Management. 3 Hours.
PR: BCOR 330 and PR or CONC: BCOR 360. Critical managerial issues in the planning, scheduling, organization, and management of projects. Project management process and tools and the effects of management style on the success of a project.

GSCM 470. Global Supply Chain Systems. 3 Hours.
PR: GSCM 425 and GSCM 450. Analysis and problem solving of sourcing, operations, and logistics issues from a systems-perspective, and discussion of managerial issues in those areas in the international context from an integrated supply chain network perspective. The course encompasses the design, simulated operation, improvement, and analysis of a supply network.

GSCM 491. Professional Field Experience. 1-18 Hours.
PR: Consent. (May be repeated for a maximum of 18 hours.) Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

GSCM 493. Special Topics. 1-6 Hours.
PR: Consent. Investigation of topics not covered in regularly scheduled courses.

GSCM 495. Independent Study. 1-6 Hours.
Faculty-supervised study of topics not available through regular course offerings.