Supply Chain Management (SCM & SCMC)

Supply Chain Management (SCM)

Students in the Supply Chain Management associate's degree program gain the knowledge and skills needed to oversee interconnected businesses by coordinating activities among suppliers, manufacturing, warehousing operations, shipping, and customers. Students also develop understanding of processes for moving, tracking, and distributing raw or in-process materials as well as finished goods.

Students select elective courses from one of two tracks:

- The Operations track focuses on business decisions in Supply Chain Management.
- The Material Handling Technology track focuses on automation and technological advances in the industry.

Graduates earn an Associate of Applied Business degree and are prepared for entry-level employment in areas such as inventory management, material handling, manufacturing resource planning, warehousing, logistics, traffic and transportation, or procurement.

Graduates also are prepared to take the Level One Supply Chain Professional certification exam offered by the Council of Supply Chain Management Professionals.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission/) section of the College website.

Supply Chain Management Certificate (SCMC)

The Supply Chain Management Certificate prepares students for employment in several key areas of the supply chain field, including purchasing, warehousing, transportation, manufacturing, and order fulfillment.

Graduates of the certificate program also are prepared to take the Level One Supply Chain Professional certification exam offered by the Council of Supply Chain Management Professionals.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission/) section of the College website.

Supply Chain Management (SCM)

Semester 1		Lec	Lab	Credits
FYE 1XX First Year Experience Elective (**B**)		1	0	1
XXX XXX Computer Elective (**B**)		3	0	3
XXX XXX Track Elective 1 (**B**)		3	0	3
MAT 1XX Mathematics Elective (**G**)		3	0	3
CIT 105	OSHA 10 General Industry Safety (**T**)	1	0	1
SCM 105	Principles of Supply Chain Management (**B**)	3	0	3
Semester 2				
ACC 101	Financial Accounting (**B**)	2	2	3
BUS 190	Professional Practices (**B**)	1	0	1
XXX XXX Track Elective 2 (**T**)		3	0	3
ENG 101	English Composition 1 (**G**)	3	0	3
MGT 101	Principles of Management (**B**)	3	0	3
SCM 110	Warehousing and Distribution (**T**)	2	2	3
Semester 3				
SCM X9X Cooperative Education Elective 1: Supply Chain Management (**T**)		1	40	2
Semester 4				
ENG XXX English Elective (**G**)		3	0	3
XXX XXX Track Elective 3 (**T**)		0	3	3
IT 150	Logistics and Distribution Technology (**T**)	2	2	3
SCM 120	Transportation Systems (**T**)	3	0	3
MGT 130	Project Management (**T**)	3	0	3
Semester 5				
XXX XXX Arts/ Humanities Elective (**G**)		3	0	3
XXX XXX Track Elective 4 (**T**)		3	0	3

SCM 205	Inventory Management and Control (**T**)	3	0	3
SCM 290	Supply Chain Management Capstone (**T**)	2	2	3
XXX XXX Social/ Behavioral Science Elective (**G**)		3	0	3
Semester 6				
SCM X9X Cooperative Education Elective 2: Supply Chain Management (**T**)		1	40	2
Total Credits:		**55**	**91**	**64**

Electives

First Year Experience Elective

FYE 100	College Success Strategies: Overview	1
FYE 105	College Success Strategies: Overview and Application	2
FYE 110	College Success Strategies: Practice and Application	3

Computer Elective

IM 200	Information Systems for Managers	3
IT 105	Information Technology Concepts	3

English Composition Elective

ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Writing about Literature	3
ENG 105	English Composition 2: Business Communication	3

Mathematics Elective

MAT 105	Quantitative Reasoning	3
MAT 115	Pre-Statistics	3
MAT 125	Algebra and Trigonometry	4
MAT 131	Statistics 1	3
MAT 151	College Algebra	4

Arts/Humanities Elective

Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130	3

Social/Behavioral Science Elective

Any Transfer Module course from ECO, GEO, HST, LBR, POL, PSY, SOC	3

Cooperative Education Electives (4 credit hours required)

SCM 191	Part-Time Cooperative Education 1: Supply Chain Management	1
SCM 192	Part-Time Cooperative Education 2: Supply Chain Management	1
SCM 193	Part-Time Cooperative Education 3: Supply Chain Management	1
SCM 194	Part-Time Cooperative Education 4: Supply Chain Management	1
SCM 291	Full-Time Cooperative Education 1: Supply Chain Management	2
SCM 292	Full-Time Cooperative Education 2: Supply Chain Management	2

Track Electives (Meet with an advisor to choose a track and corresponding electives)

Operations Track Electives

Must take all three courses listed below

LAW 101	Business Law	3
SCM 115	Manufacturing Planning in Supply Chain Management	3
SCM 210	Procurement Management	3

Must take one of the following courses:

ACC 102	Managerial Accounting	3
CET 115	Architectural Drafting and Computer Aided Design	4
EMET 210	Energy Efficiency and Audits	3
EVT 187	Materials Transportation Safety and Security	2
MGT 130	Project Management	3

Material Handling Technology Track Electives

EET 101	Electronic Fundamentals 1	3
EMET 150	Introduction to Controls and Robotics	2
MHT 100	Introduction to Materials Handling and Logistics Technology	3
MHT 200	Automation Systems	3

Some courses are offered in alternative versions identified with a letter after the course number-- for example, ENG 101 and ENG 101A.

- This curriculum displays only course numbers without the added letter.
- The alternative version, when available, meets the requirements of the course version without the added letter.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Supply Chain Management Certificate (SCMC)

Semester 1		Lec	Lab	Credits
SCM 105	Principles of Supply Chain Management	3	0	3
SCM 110	Warehousing and Distribution	2	2	3
Semester 2				
SCM 120	Transportation Systems	3	0	3
SCM 115	Manufacturing Planning in Supply Chain Management	3	0	3
SCM 205	Inventory Management and Control	3	0	3

Semester 3

SCM 210	Procurement Management	3	0	3
XXX XXX Technical Elective		3	0	3
Total Credits:		**20**	**2**	**21**

Electives

Technical Elective

IT 150	Logistics and Distribution Technology	3
MGT 140	Quality Management	3
SCM 290	Supply Chain Management Capstone *	3
CDL 110	Commercial Driver License Training	5

*   Students cannot take SCM 290 and SCM 210 in the same semester.

Some courses are offered in alternative versions identified with a letter after the course number-- for example, ENG 101 and ENG 101A.

- This curriculum displays only course numbers without the added letter.
- The alternative version, when available, meets the requirements of the course version without the added letter.

Supply Chain Management (SCM)

- Demonstrate the major functions of supply chain management: planning, acquisition, flow, and distribution of goods and services.
- Differentiate logistics and supply chain management.
- Describe alternative ways to organize for supply chain management.
- Describe methods of inventory planning.
- Utilize critical thinking in addressing issues.
- Explain how technology has and continues to change logistics and supply chain management.
- Compare modes of transportation and related policies.
- Explain purchasing processes, policies, and procedures.
- Describe warehouse processes, systems, and performance measures.
- Analyze legal and ethical issues from a global awareness perspective within the supply chain management industry.
- Identify improvement opportunities throughout the operations value stream (reduction in operational waste) and develop and implement a plan for acting on these opportunities.
- Use computer simulation to model a supply chain within a cost effective inventory, facility, location, and transportation framework.
- Discuss collaboration and communication skills and leadership styles.
- Demonstrate professionalism specific to the supply chain management industry.

Faculty

Program Chair

David Hensley, BS, MBA
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Co-op Coordinator

Brian Hooten, MAOL
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Advisor

Lauren Nelson, BS
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Courses

SCM 105 Principles of Supply Chain Management
3 Credits. 3 Lecture Hours. 0 Lab Hour.
A course on fundamentals of supply chain management and operations. Topics include: logistics, distribution, warehousing, material handling, material flow, transportation, procurement, and tracking.
Prerequisites: ENG 080 or appropriate placement

SCM 110 Warehousing and Distribution
3 Credits. 2 Lecture Hours. 2 Lab Hours.
A course on warehouse management and distribution skills, including OSHA General Industry Training and forklift operator safety training. Topics include: material handling equipment, information technology tools, receiving, order picking, shipping, inventory management, and storage.
Prerequisites: None

SCM 115 Manufacturing Planning in Supply Chain Management
3 Credits. 3 Lecture Hours. 0 Lab Hour.
A course on operational frameworks, challenges, and opportunities posed by supply chain management and sustainability trends. Topics include: demand forecasting, master production planning, lean production, push and pull production systems, capacity requirements planning, and inventory management.
Prerequisites: SCM 105

SCM 120 Transportation Systems
3 Credits. 3 Lecture Hours. 0 Lab Hour.
A course on laws, policies, and procedures related to transportation by ground, rail, air, and water. Topics include: planning, traffic management, environmental compliance, and relationships among suppliers, producers, and consumers.
Prerequisites: None

SCM 191 Part-Time Cooperative Education 1: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: BUS 190 (minimum grade C)

SCM 192 Part-Time Cooperative Education 2: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate?s degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 191

SCM 193 Part-Time Cooperative Education 3: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate?s degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 192

SCM 194 Part-Time Cooperative Education 4: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate?s degree participate in their fourth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 193

SCM 195 Part-Time Cooperative Education 5: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate?s degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 194

SCM 196 Part-Time Cooperative Education 6: Supply Chain Management
1 Credit. 1 Lecture Hour. 20 Lab Hours.
Students seeking an associate?s degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 195

SCM 205 Inventory Management and Control
3 Credits. 3 Lecture Hours. 0 Lab Hour.
A course on inventory management and movement of materials. Topics include: independent and dependent demand methods, material management, manufacturing principles, predicting demand, just-in-time operations, quality control, and tracking and logistics technologies.
Prerequisites: SCM 105

SCM 210 Procurement Management
3 Credits. 3 Lecture Hours. 0 Lab Hour.
A course on procurement principles and practices. Topics include: strategic planning, quality control, purchasing laws and ethics, cost estimating, contract management, inventory control, and risk management.
Prerequisites: SCM 105

SCM 290 Supply Chain Management Capstone
3 Credits. 2 Lecture Hours. 2 Lab Hours.
Students use case studies and simulations to examine the entire scope of Supply Chain Management, including functional and decision-making areas such as distribution, transportation, inventory management, procurement, and logistics.
Prerequisites: SCM 210

SCM 291 Full-Time Cooperative Education 1: Supply Chain Management
2 Credits. 1 Lecture Hour. 40 Lab Hours.
Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: BUS 190 (minimum grade C)

SCM 292 Full-Time Cooperative Education 2: Supply Chain Management
2 Credits. 1 Lecture Hour. 40 Lab Hours.
Students seeking an associate?s degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 291

SCM 293 Full-Time Cooperative Education 3: Supply Chain Management
2 Credits. 1 Lecture Hour. 40 Lab Hours.
Students seeking an associate?s degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 292

SCM 294 Internship 1: Supply Chain Management
2 Credits. 1 Lecture Hour. 40 Lab Hours.
Students seeking an associate?s degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: BUS 190

SCM 295 Internship 2: Supply Chain Management
2 Credits. 1 Lecture Hour. 40 Lab Hours.
Students seeking an associate?s degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: SCM 294