

Degree Description

The Supply Chain & Operations Management program prepares graduates to perform in a supervisory role in manufacturing or service industries.

Graduates of this two-year program earn an Associate of Applied Science degree.

The curriculum focuses on improving quality in organizations of all types by using the Lean Manufacturing and Six Sigma approaches.

This includes measuring improvements using higher-level mathematics and statistics.

Courses within the program address a number of core competencies including production, quality assurance, inventory management, supply chain and logistics, safety, purchasing, and scheduling.

The program culminates with a Six Sigma internship reviewed by a certified Six Sigma Black Belt.

This allows students to receive hands-on, real-world experience while contributing knowledge gained from their academic pursuits directly back to their employer.

Measurable Skills

1. Operations management skills: Learn to apply operations planning, manufacturing resource planning, lean manufacturing, and supply chain concepts within the global business environment.
2. Logistics and purchasing skills: Learn to apply logistics and purchasing concepts to improve supply chain operations, reduce costs, and ensure continuity of operations.
3. Six Sigma skills: Learn to use quantitative and qualitative methods to build, sustain, and improve processes to achieve organizational excellence.
4. Safety skills: Learn to apply industrial best practices and OSHA standards to mitigate hazards in the workplace through safety program management.
5. Leadership skills: Learn to lead others through the application of positive attitudes, goal-setting, motivational strategy, and humility.
6. Teambuilding skills: Learn to create, participate in, manage, and find success using functional and cross-functional work teams.
7. Computer skills: Learn to use word processing, spreadsheet, data analysis, presentation, and database computer software to conduct business operations.
8. Communication skills: Learn the ability to effectively develop, interpret, and express ideas through written, oral, and visual communication approaches.
9. Critical thinking skills: Learn to analyze operations of a business, diagnose, propose, and implement solutions to business problems through research, synthesis, and application of information.
10. Ethics skills: Learn ways to evaluate situations and make ethical decisions that are socially responsible.

Semester I	Hours
BMGT 2309 Leadership	3 hours
BMGT 1327 Principles of Management	3 hours
MATH 1342 Elementary Statistical Methods	3 hours
BMGT 1331 Production and Operations Management	3 hours
	12 hours

Semester II	Hours
ENGL 2311 Technical & Business Writing	3 hours
QCTC 1301 Total Quality Management	3 hours
QCTC 1391 ST:Quality Control Tech: Lean Six Sigma	3 hours
QCTC 1343 Quality Assurance	3 hours
	12 hours

Summer Semester	Hours
BCIS 1305 Business Computer Applications ^{2,4}	3 hours
BMGT 1344 Negotiations and Conflict Management	3 hours
Language, Philosophy, & Culture elective <i>or</i> Creative Arts elective	3 hours
ECON 2301 Principles of Macroeconomics <i>or</i> ECON 2302 Principles of Microeconomics	3 hours
	12 hours

Semester III	Hours
BMGT 1313 Principles of Purchasing	3 hours
LMGT 1319 Introduction to Business Logistics	3 hours
ACNT 1303 Introduction to Accounting I	3 hours
LMGT 2388 Internship - Logistics & Material Management ^{5,6}	3 hours
	12 hours

Semester IV	Hours
HRPO 2301 Human Resources Management	3 hours
BMGT 1307 Team Building	3 hours
OSHT 2309 Safety Program Management	3 hours
BMGT 2310 Financial Management	3 hours
	12 hours

Total hours: 60 hours

- 2 May be eligible for articulation through high school or by individual courses from high school. See your high school counselor for information.
- 4 May be articulated but will be substituted as ITSC 1309 (may not transfer to 4-year institutions).
- 5 Must meet guidelines for Internships as outlined in the General Catalog.
- 6 LMGT 2388, Internship is a CAPSTONE course that brings together skills and knowledge learned in other classes and applies them in decision making situations and in completing job tasks. Check for prerequisites.

Electives/General Education Courses

Creative Arts

ARTS 1301 Art Appreciation	3 hours
ARTS 1303 Art History I (Prehistoric to the 14th Century)	3 hours
ARTS 1304 Art History II (14th Century to the Present)	3 hours
DRAM 1310 Introduction to Theater	3 hours
DRAM 2361 History of Theater I	3 hours
DRAM 2362 History of Theater II	3 hours
HUMA 1315 Fine Arts Appreciation	3 hours
MUSI 1306 Music Appreciation	3 hours
MUSI 1308 Music Literature I	3 hours
MUSI 1309 Music Literature II	3 hours
MUSI 1310 American Music	3 hours

Language, Philosophy, & Culture

ENGL 2321 British Literature	3 hours
ENGL 2322 British Literature I	3 hours
ENGL 2323 British Literature II	3 hours
ENGL 2326 American Literature	3 hours
ENGL 2327 American Literature I: Up to the Civil War	3 hours
ENGL 2328 American Literature II: Civil War to the Present	3 hours
ENGL 2331 World Literature	3 hours
ENGL 2332 World Literature I: Up to the 17th Century	3 hours
ENGL 2333 World Literature II: 17th Century to the Present	3 hours
ENGL 2341 Forms of Literature	3 hours
FREN 2311 Intermediate French I	3 hours
GERM 2311 Intermediate German I	3 hours
HUMA 1301 Introduction to Humanities I	3 hours
HUMA 1302 Introduction to Humanities II	3 hours
PHIL 1301 Introduction to Philosophy	3 hours
PHIL 1304 Introduction to World Religions	3 hours
PHIL 2306 Introduction to Ethics	3 hours
SPAN 2311 Intermediate Spanish I	3 hours
SGNL 2301 Intermediate ASL I	3 hours

Course Descriptions

BMGT 2309 Leadership

Introduces concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify with employees. This is a Capstone course that integrates knowledge from previous courses and provides the opportunity to apply management and leadership principles to real world situations. Prerequisite: Completion of or concurrent enrollment in BMGT 1327. Semester Hours 3 (3 lec)

BMGT 1327 Principles of Management

Examines concepts, terminology, principles, theories, and issues in the field of management. Semester Hours 3 (3 lec)

MATH 1342 Elementary Statistical Methods

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Graphing calculator required. Prerequisite: TSI math complete or MATH 0308 or completion of college-level math course or consent of division chair. Semester Hours 3 (3 lec)

BMGT 1331 Production and Operations Management

Fundamentals of techniques used in the practice of production and operations management. Includes location, design, and resource allocation. Semester Hours 3 (3 lec)

ENGL 2311 Technical & Business Writing

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice of individual and collaborative processes involved in the creation of ethical and efficient documents. Prerequisite: Passing score on writing portion of TSI Assessment or credit for ENGL 0301. Semester Hours 3 (3 lec)

QCTC 1301 Total Quality Management

The study of integrating work processes using team participation through employee empowerment and teamwork emphasizing the philosophy of customer service and satisfaction. Prerequisites: BMGT 1313, BMGT 1331 and MATH 1342. Semester Hours 3 (3 lec)

QCTC 1391 ST:Quality Control Tech: Lean Six Sigma

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Prerequisites: MATH 1342 and BMGT 1331. Semester Hours 3 (3 lec)

QCTC 1343 Quality Assurance

Principles and applications designed to introduce quality assurance. Prerequisite: BMGT 1331. Semester Hours 3 (2 lec/2 lab)

BCIS 1305 Business Computer Applications

Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet. Required for students taking the Business Field of Study. Semester Hours 3 (2 lec/2 lab)

BMGT 1344 Negotiations and Conflict Management

Discusses theories that aid in the diagnosis of interpersonal and intergroup conflict. The role of manager as negotiator, intermediary, and problem-solver. Semester Hours 3 (3 lec)

ECON 2301 Principles of Macroeconomics

An analysis of the economy as a whole including measurement and determination of aggregate demand and aggregate supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, fiscal policy and monetary policy. Prerequisite: Must have passed the TSI Assessment or be concurrently enrolled in READ 0302. Semester Hours 3 (3 lec)

ECON 2302 Principles of Microeconomics

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. Prerequisite: Must have passed the TSI Assessment or be concurrently enrolled in READ 0302. Semester Hours 3 (3 lec)

BMGT 1313 Principles of Purchasing

The purchasing process as it relates to such topics as inventory control, price determination, vendor selection, supply chain management, negotiation techniques, and ethical issues in purchasing. Semester Hours 3 (3 lec)

LMGT 1319 Introduction to Business Logistics

A systems approach to managing activities associated with traffic, transportation, inventory management and control, warehousing, packaging, order processing, and materials handling. Prerequisite: BMGT 1331. Semester Hours 3 (3 lec)

ACNT 1303 Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. May not be counted toward the associate degree if taken after successful completion of ACCT 2401. Semester Hours 3 (3 lec/lab)

LMGT 2388 Internship - Logistics & Material Management

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: BMGT 1313 and BMGT 1331. Semester Hours 3 (1 lec/15 lab)

HRPO 2301 Human Resources Management

Introduces behavioral and legal approaches to the management of human resources in organizations. Recommended completion of BMGT 1303 or BMGT 1327. Semester Hours 3 (3 lec)

BMGT 1307 Team Building

Principles of building and sustaining teams in organizations. Includes team dynamics, process improvement, trust and collaboration, conflict resolution, and the role of the individual in the team. Prerequisite: BMGT 1303 or BMGT 1327 or consent of faculty advisor. Semester Hours 3 (3 lec)

OSHT 2309 Safety Program Management

Examine the major safety management issues that affect the workplace, including safety awareness, loss control, regulatory issues, and human behavior modification. Prerequisite: BMGT 1331. Semester Hours 3 (3 lec)

BMGT 2310 Financial Management

Examination of accounting information to support managerial decision-making processes. Topics include managerial concepts and systems, various analyses for decision making, and planning and control. Semester Hours 3 (3 lec)

ARTS 1301 Art Appreciation

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. Semester Hours 3 (3 lec)

ARTS 1303 Art History I (Prehistoric to the 14th Century)

A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century. Semester Hours 3 (3 lec)

ARTS 1304 Art History II (14th Century to the Present)

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day. Semester Hours 3 (3 lec)

DRAM 1310 Introduction to Theater

Survey of all phases of theater including its history, dramatic works, stage techniques, production procedures, and relation to the fine arts. Participation in major productions may be required. Applies as a required Humanities or Visual & Performing Arts course for all students. Semester Hours 3 (3 lec)

DRAM 2361 History of Theater I

Study of the history of the theater from primitive times through the Renaissance. Required of theatre majors; open to non-theatre majors. Semester Hours 3 (3 lec)

DRAM 2362 History of Theater II

Study of the history of the theater from the Renaissance through today. Required of theatre majors; open to non-theatre majors. Semester Hours 3 (3 lec)

HUMA 1315 Fine Arts Appreciation

This course is an exploration of the purposes and processes in the visual and performing arts (such as music, painting, architecture, drama, and dance) and the ways in which they express the values of cultures and human experience. Semester Hours 3 (3 lec)

MUSI 1306 Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances. (Does not apply to a music major degree.) Applies as a required humanities or fine arts course for all students. Semester Hours 3 (3 lec)

MUSI 1308 Music Literature I

Survey of the principal musical forms and cultural periods as illustrated in the literature of major composers. Surveys music literature from Gregorian chant to the early classical period. Emphasis is on music materials and listening skills through recorded music and scores. Required for music majors and minors. Semester Hours 3 (3 lec)

MUSI 1309 Music Literature II

Survey of the principal musical forms and cultural periods as illustrated in the literature of major composers. Surveys music literature from the classical period to the present. Emphasis is on music materials and listening skills through recorded music and scores. Required for music majors and minors. Semester Hours 3 (3 lec)

MUSI 1310 American Music

General survey of various styles of music in America. Topics may include jazz, ragtime, folk, rock, and contemporary art music. Satisfies general humanities elective requirements. Semester Hours 3 (3 lec)

ENGL 2321 British Literature

A survey of the development of British literature from the Anglo-Saxon period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2322 British Literature I

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2323 British Literature II

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2326 American Literature

A survey of American literature from the period of exploration and settlement to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2327 American Literature I: Up to the Civil War

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2328 American Literature II: Civil War to the Present

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2331 World Literature

A survey of world literature from the ancient world to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2332 World Literature I: Up to the 17th Century

A survey of world literature from the ancient world through the 16th century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2333 World Literature II: 17th Century to the Present

A survey of world literature from the 17th century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

ENGL 2341 Forms of Literature

The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Prerequisite: ENGL 1301 or ENGL 2311. Semester Hours 3 (3 lec)

FREN 2311 Intermediate French I

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: FREN 1412, three years of high school French, or consent of instructor or division chair. Students with three years of high school French are encouraged to see a French instructor prior to enrolling. Semester Hours 3 (3 lec)

GERM 2311 Intermediate German I

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: GERM 1412, three years of high school German, or consent of instructor or division chair. Students with three years of high school German are encouraged to see a German instructor prior to enrolling. Semester Hours 3 (3 lec)

HUMA 1301 Introduction to Humanities I

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. Team taught by faculty from diverse departments as a colloquium (academic seminar led by a different lecturer and on a different topic at each session). Works may include studies, journals, novels, poems, treatises, graphic novels, films, plays, paintings, musical compositions, etc. Semester Hours 3 (3 lec)

HUMA 1302 Introduction to Humanities II

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. Team taught by faculty from diverse departments as a colloquium (academic seminar led by a different lecturer and on a different topic at each session). Works may include studies, journals, novels, poems, treatises, graphic novel films, plays, paintings, musical compositions, etc. Semester Hours 3 (3 lec)

PHIL 1301 Introduction to Philosophy

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications. Semester Hours 3 (3 lec)

PHIL 1304 Introduction to World Religions

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam. Semester hours 3

PHIL 2306 Introduction to Ethics

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. Semester Hours 3 (3 lec)

SPAN 2311 Intermediate Spanish I

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis is on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: SPAN 1412, three years of high school Spanish, or consent of instructor or division chair. Students with three years of high school Spanish are encouraged to see a Spanish instructor prior to enrolling. Semester Hours 3 (3 lec)

SGNL 2301 Intermediate ASL I

Review and application of conversational skills in American Sign Language and interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. Prerequisite: SGNL 1402 with a grade of C or better or consent of the program director. Semester Hours 3 (3 lec)
