PROJECT AND SUPPLY CHAIN MANAGEMENT, B.S. (CAPITAL)

**Begin Campus:** Any Penn State Campus

**End Campus:** Harrisburg

**Program Description**

The Project and Supply Chain Management major concentrates on developing knowledge, skills, and abilities in both project and supply chain management, dynamic and important disciplines in modern corporations. Project management skills include the development of new projects, and coordinating procurement and project delivery systems. Supply chain management emphasizes the integration of manufacturing and service operations, logistics, purchasing, and distribution that enable organizations to develop value-creating supply chain networks. The major provides students with an opportunity to develop the quantitative and people skills necessary to design and operate today's complex management systems. Students learn how to manage critical components in organizational supply chains, and apply business analytic methods for organizing and fully integrating supply chain practices throughout the organization.

Graduates are uniquely well-prepared for careers in some of the highest in-demand professions in the modern business and government environments, managing the supply chain and project initiatives in world-class business firms, public sector organizations, construction, IT organizations, third-party logistics providers, and goods and services distribution operations.

**What is Project and Supply Chain Management?**

It has been estimated that well over half of all activities in modern corporations are project-based. From developing a new product to constructing a new building, the list of efforts that organizations must plan, manage, and deliver (ideally on time and under budget) is nearly endless. At the same time, globalization creates a growing need for professionals who can effectively manage complex supply chains. The study of project and supply chain management emphasizes the integration of manufacturing and service operations, logistics, purchasing, and distribution—the functions that enable organizations to cultivate value-creating supply chain networks.

**You Might Like This Program If...**

- You’re not intimidated by large projects, or ones that have many moving parts.
- You are detail oriented.
- You are looking for a versatile, in-demand business degree.
- You are interested in pursuing a concurrent certificate in Enterprise Resource Planning (ERP) with SAP (available at Erie, the Behrend College and University College campuses, Beaver, Fayette, Greater Allegheny, Lehigh Valley, New Kensington, Schuylkill, Shenango, Wilkes-Barre and Scranton).

**Entrance to Major**

Entry to the Management major requires the completion of 5 entry-to-major courses: ACCTG 211, ECON 102, ENGL 15 or ENGL 30, MATH 110 or MATH 140, STAT 200 or SCM 200 and a 2.00 or higher cumulative grade-point average.

**Degree Requirements**

For the Bachelor of Science degree in Project and Supply Chain Management, a minimum of 120 credits is required:

<table>
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<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Education</td>
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<tr>
<td>Electives</td>
<td>2</td>
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<tr>
<td>Requirements for the Major</td>
<td>88</td>
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</table>

15 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 6 credits of GQ courses; 6 credits of GS courses; 3 credits of GWS courses.

**General Education**

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (http://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

**Foundations (grade of C or better is required.)**

- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

**Knowledge Domains**

- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits

**Integrative Studies (may also complete a Knowledge Domain requirement)**

- Inter-Domain or Approved Linked Courses: 6 credits

**University Degree Requirements**

**First Year Engagement**

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.
Cultures Requirement
6 credits are required and may satisfy other requirements
- United States Cultures: 3 credits
- International Cultures: 3 credits

Writing Across the Curriculum
3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits
A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work
Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition
The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80). For more information, check the Suggested Academic Plan for your intended program.

Requirements for the Major
Each student must earn at least a grade of C in each 300- and 400-level course in the major field.

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44). For more information, check the Suggested Academic Plan for your intended program.

Additional Courses
- BA 241 Legal Environment of Business
- BA 242 Social, Legal, and Ethical Environment of Business
- or BA 243
- MATH 110 Techniques of Calculus I
- or MATH 140 Calculus With Analytic Geometry I
- SCM 200 Introduction to Statistics for Business
- or STAT 200 Elementary Statistics

Additional Courses: Require a grade of C or better
- MGMT 410 Project Management
- or BA 421 Project Management
- MGMT 415 Project Portfolio Management and Organizations
- or SCM 416 Warehousing and Terminal Management
- SCM 320 Transport Systems
- or SCM 455 Logistics Systems Analysis and Design

Select 6 credits of 300- or 400-level courses in one business supporting area or PSCM electives from the following:

- BA 321 Contemporary Skills for Business Professionals
- BA 322 Negotiation Skills for Business Professionals
- MGMT 420 Negotiation and Conflict Management
- MGMT 431 Entrepreneurship and Small Business Management
- MGMT 432 Small Business Field Study
- MGMT 433 Leadership and Team Building
- MGMT 440 Advanced Human Resource Management
- MGMT 453 Creativity and Innovation
- MGMT 466 Organizational Learning and Knowledge Management
- MGMT 483 Compliance and Fairness in Organizations
- ECON 481 Business Forecasting Techniques
- MIS 336 Database Management Systems
- MIS 301 Business Analytics

Select 3 credits from:
- BA 422W Strategic Business Planning
- BA 462 Business Strategy
- MGMT 471W Strategic Management and Business Policy

Supporting Courses and Related Areas
Select 12 credits of approved electives courses from any area (see supporting area or PSCM electives from the following):

- ECON 481 Business Forecasting Techniques
- MIS 336 Database Management Systems
- MIS 301 Business Analytics

Select 3 credits from:
- BA 422W Strategic Business Planning
- BA 462 Business Strategy
- MGMT 471W Strategic Management and Business Policy

Supporting Courses and Related Areas
Select 12 credits of approved electives courses from any area (see school list of suggested courses) 1

1 See the Advising and Planning a Degree Program (http://bulletins.psu.edu/undergraduate/general-information/academic-information/#advisingandplanningadegreeprogramtext) section in the General Information section in this bulletin for the placement policy for Penn State foreign language courses.
Integrated B.S. in Project and Supply Chain Management and M.B.A. in Business Administration

Available at the following campuses: Harrisburg

The School of Business Administration offers a limited number of academically superior Bachelor of Science in Project and Supply Chain Management candidates the opportunity to enroll in an integrated, continuous program of study leading to both the Bachelor of Science in Project and Supply Chain Management and the Master of Business Administration. The ability to coordinate as well as concurrently pursue the two degree programs enables the students to earn both degrees in five years. Specifically, as many as twelve of the credits required for the master’s degree may be applied to both undergraduate and graduate degree programs. The Integrated Undergraduate-Graduate Program reduces the total number of credits needed to earn both degrees from 150 to 138.

Students in the IUG program must satisfy the requirements for both the Bachelor of Science in Project and Supply Chain Management and Master of Business Administration degrees. The total course load is reduced due to courses that can count towards both degrees. The first two years of the IUG program are identical to the first two years of the Bachelor of Science program. Students in the IUG program take three additional credits in their third year, and three fewer credits in their fourth year. The courses that count toward the Master of Business Administration degree requirements are included in the fourth year.

Student performance will be monitored on an on-going basis. In addition, a formal evaluation of student academic performance will be performed when the students have completed 100 to 105 credits, which is at the end of the first semester of the senior year for typical students in the program. Students who have not maintained a 3.0 GPA in their graduate courses will be put on probationary status with respect to the IUG program. They will receive a warning letter regarding probationary status. Their ability to continue in the IUG program will be based on their academic performance in the last semester of their senior year.

Students have the choice of receiving the B.S. in Project and Supply Chain Management degree at the end of the fourth year or waiting until the end of the fifth year to receive both degrees. Students who elect to receive the B.S. degree at the end of the fourth year will pay graduate tuition for courses taken in the fifth year; students opting to receive both degrees at the end of the fifth year will pay undergraduate tuition for all five years.

If for any reason students admitted to the IUG program are unable to complete the requirements for the Master of Business Administration degree, the students will be permitted to receive the Bachelor of Science in Project and Supply Chain Management degree assuming all the undergraduate degree requirements have been satisfactorily completed. If the students successfully complete courses listed in the recommended schedule, they will satisfy the requirements for the Bachelor of Science degree by the end of their fourth year.

Admission Requirements

To initiate the application process, students must submit a resume, a personal statement including career goals and how MBA will enhance their career goals, transcripts of courses taken outside Penn State, two letters of recommendation, with at least one from the School of Business Administration faculty, and a plan of study that integrates both undergraduate and graduate requirements. A graduate faculty adviser in collaboration with the Director of MBA Program will help undergraduate candidates determine a sequence of courses that will prepare them for acceptance into the Integrated Undergraduate-Graduate (IUG) degree program.

The number of openings in the IUG program is limited. Applicants to the IUG program must have completed a minimum of 60 credits. Typical students would apply after completing between 60 and 90 credits, that is, after the fifth semester and before the end of the seventh semester. In addition, the applicants must earn a minimum of cumulative grade point average of 3.5 and complete the following Entry to Major courses or equivalent: ACCTG 211, ECON 102, ENGL 15 or ENGL 30, FIN 301, MATH 110 or MATH 140, MGMT 301, MKTG 301 and STAT 200 or SCM 200.

To formally apply, students must submit a completed graduate school application. The students should mention in the notes section that the application is for the IUG program in Business Administration. The Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) is not required for admission into the program; however, if students are interested in applying for a graduate assistantship, GMAT or GRE scores must be submitted by the end of the eighth semester.

Student applications will be evaluated based on their overall portfolio, in addition to the above requirements. In all cases, admission to the program will be at the discretion of the Graduate Admissions Committee in Business Administration.

Degree Requirements

Students in the IUG program must satisfy the degree requirements for both Bachelor of Science in Project and Supply Chain Management and Master of Business Administration degrees. The total course load is reduced due to the maximum of 12 credits that can count towards both degrees. All courses counted for both degrees must be at the 500- or 800-level.

Program Learning Objectives

Student graduates of our baccalaureate degree programs should be:

1. Effective communicators
   a. Present verbally, thoughts and ideas in a way that can be clearly understood by a target audience.
   b. Convey ideas in a clear, coherent manner in written communication.

2. Ethical and socially responsible
   a. Be competent in analyzing social and ethical decision making issues in organizations.

3. Critical thinkers
   a. Be able to think and identify multiple dimensions of company issues and performances and make an assessment of company performances in achieving financial and strategic objectives, tracking their achievements, and giving management of companies a more complete and balanced view of how the organization is performing.

4. Competent in their own discipline
   a. Calculate reorder point and EOQ for continuous review system as well as annual inventory holding costs and holding cost. Calculate order-up-to amount for periodic review system.
   b. Calculate the critical path for a project.
c. Explain the functions and flows of the SCOR Model and how they interact.

**Academic Advising**

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

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**Suggested Academic Plan**

**Harrisburg Campus**

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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<th>First Year</th>
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<tr>
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<tr>
<td>ENGL 15 or 30#</td>
<td>3 CAS 100†</td>
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<tr>
<td>MATH 110 or 140†</td>
<td>4 STAT 200 or SCM 200††</td>
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<tr>
<td>General Education Course</td>
<td>3 MGMT 301*</td>
<td>3</td>
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<tr>
<td>ECON 102††</td>
<td>3 General Education Course</td>
<td>3</td>
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<tr>
<td>General Education Course</td>
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<td></td>
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<td><strong>Spring</strong></td>
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<th>Credits</th>
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<tbody>
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<tr>
<td>ACCGT 211*</td>
<td>4 FIN 301*</td>
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<td>MKTG 301*</td>
<td>3 MIS 301†</td>
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<tr>
<td>MIS 204</td>
<td>3 ENGL 202†</td>
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<td>General Education Course</td>
<td>3 SCM 301†</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>BA 241</td>
<td>2 SCM 460†</td>
<td>3</td>
</tr>
<tr>
<td>BA 242</td>
<td>2 SCM 445†</td>
<td>3</td>
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<tr>
<td>SCM 320†</td>
<td>3 ECON 104†</td>
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<tr>
<td>MGMT 341†</td>
<td>3 Supporting Course</td>
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Fourth Year

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<td>BA 364⁺†</td>
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<td>BA 462⁺</td>
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<td>SCM 416⁺</td>
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<td>General Education Course</td>
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<td>300-400 Level Business Elective</td>
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<td>15</td>
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</table>

Total Credits 120

⁺ Course requires a grade of C or better for the major
⁺‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
⁺† Course satisfies General Education and degree requirement

¹ Supporting Course: Skills Enhancement, this component of the degree program consists of 12 credits that provide students with an opportunity to pursue course work related to their career interests. Students should select their courses (in consultation with an adviser) from the Supporting Courses list below.

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Advising Notes

• 30 Credits of GA, GH, GHW, GN, GS to include 6 Integrative Studies credits.
• 15 Credits of GQ and GWS require a grade of “C” or better
• Courses required for the major must generally be taken within 10 years of Entrance to Major.

Supporting Courses List

Computer Science Minor: CMPSC 122, CMPSC 221, CMPSC 360, and any 400 level CMPSC course.

Information Science and Technology Minor: IST 110, IST 210, IST 220, IST 301, IST 302, IST 402, IST 431, and IST 432.


Psychology: PSYCH 100, PSYCH 301, and any 400 level PSYCH course

Security and Risk Analysis: Any SRA courses

Any World Language Courses

Career Paths

The B.S. in Project and Supply Chain Management is one of only a handful of undergraduate degree programs in this field. Graduates are uniquely prepared to work in project-intensive industries such as construction, insurance, information services and information technology, manufacturing, utilities, pharmaceuticals, third-party logistics, and goods and services distribution operations.

Careers

Employers of recent B.S. in Project and Supply Chain Management graduates include Frito Lay, Fairpoint Communications, Pitney Bowes, Spyne, General Electric, Webtec Railway Electronics, Business Resource Group, Modern Industries, Eddie Bauer, Ferguson Enterprises, Unisys, Eastman Kodak, Tyco Electronics, and IBM.

Opportunities for Graduate Studies

The B.S. in Project and Supply Chain Management can be a starting point for master’s- and doctoral-level study of business administration, law, organizational behavior, corporate strategy, enterprise architecture, information technology, or another specialized discipline.

Professional Resources

• Project Management Institute (https://www.pmi.org)

Accreditation

The B.S. in Project and Supply Chain Management offered by the Black School of Business at Penn State Erie, The Behrend College, is accredited by AACSB International—The Association to Advance Collegiate Schools of Business. As the world’s largest business education alliance, AACSB connects educators, students, and business to achieve a common goal: to create the next generation of great leaders. Synonymous with the highest standards of excellence since 1916, AACSB provides quality assurance, business education intelligence, and professional development services to over 1,500 member organizations and more than 785 accredited business schools worldwide. AACSB’s mission is to foster engagement, accelerate innovation, and amplify impact in business education.

MORE INFORMATION ABOUT THE ASSOCIATION TO ADVANCE COLLEGIATE SCHOOLS OF BUSINESS (http://www.aacsb.edu)

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