

## Certificate in Supply Chain Management Requirements for Engineering Students

The **Certificate in Supply Chain Management**, administered jointly by the Swanson School of Engineering and the College of Business Administration is open to all students in the College of Business Administration (CBA) and to all undergraduate students in the Swanson School of Engineering and can be earned in conjunction with any of the Swanson School's BS engineering degrees and any of the CBA majors. The certificate will be awarded through the School in which the student is enrolled.

The undergraduate Certificate in Supply Chain Management aims to develop competencies in the following key areas:

- Basic theoretical concepts of supply chain management
- Fundamental technical and analytical skills for understanding the supply chain and making better supply chain related decisions
- Practical skills necessary to be effective in supply chain management positions (via a strong emphasis on experience-based learning)
- Hands-on exposure to the global supply chain issues

For engineering students (business students should see the requirements listed on the CBA website), the Certificate in Supply Chain Management requires students to take the following five courses:

1. IE 1080 (Supply Chain Analysis) for Engineering students (BUSQOM 1070 is for Business students only.)
2. BUSSCM 1730 (Managing Global Supply Chains)
3. CBA Supply Chain Elective Course, either BUSSCM 1740 (Purchasing and Supply Management) or BUSSCM 1750 (Revenue Management).
4. Industrial Engineering Elective Course, engineering students can chose from one of the following four courses - note that since Industrial Engineering (IE) students are required to take IE 1055, they must take one of the other courses from the list. Prerequisites can be waived for non-IE Engineering students on a case-by-case basis.
  - IE 1055 Facility Layout and Material Handling
  - IE 1076 Total Quality Management
  - IE 1079 Logistics and Supply Chain Engineering
  - IE 1101 Facility Logistics
  - IE 1102 Lean Six Sigma I (Green Belt)
  - IE 1203 Warehouse Operations
5. Global Supply Chain Project Elective Course, chosen from ENGR 1228, Global Supply Network & Manufacturing Culture in Latin America, ENGR 1625, Engineering and Business Collaboration in India, ENGR 1600, International Technology: Innovation and Leadership, or BUSSPP 1740, Global Strategy and Competitive Advantage (does not require travel). *Other international project courses may also be considered.*

In addition, the student must obtain a grade of C or better in each course counted toward the certificate, and a minimum QPA of 2.25 (C+ average) across all courses in the certificate.