Supply Chain Engineering (14SCEM)

Description

The Supply Chain Engineering Minor allows students to develop skills associated with the networks and processes that move materials and supplies into production facilities, transforms them into finished goods and then distributes products to customer markets. This minor takes a multi-disciplinary approach to solving problems associated with logistics, operations, network design, systems and services optimization, planning/scheduling and alternatives analysis. Completion of this minor will prepare undergraduate students for the global marketplace by providing a strong foundation and integrated framework from which to navigate decisions, influence production planning, and impact time to market.

Requirements for Admission and Completion of the Minor

- The program administrator will oversee admission to and certify completion of the minor program.
- Admission to the minor requires a minimum 3.25 GPA and completion of a short application form.
- Students shall then complete the minor form and create a plan of work detailing the courses to be taken in order to satisfy the requirements by semester.
- Students accepted to the program will be required to meet with program administrator or designee during the registration period for each semester to ensure satisfactory process toward the minor.
- Students are NOT allowed to double count any required course in Group A toward both departmental major and minor requirements.
- All courses must be completed at NC State University.
- All minor courses must be completed with a grade of C- or higher.
- All minor courses must be taken for a letter grade.
- The Program administrator will verify that all requirements have been met and certify the minor prior to graduation. The minor must be completed no later than the semester in which the students expects to graduate from their degree program. Paperwork for the certification should be completed no later than the end of the registration period for the student's final semester at NC State University.

Required Course (3 credit hours)

- ISE 411 Supply Chain Economics and Decision Making

Group A Electives (6-9 credit hours)

- ISE 361 Deterministic Models in Industrial Engineering
- ISE 413 Humanitarian Logistics
- ISE 433 Service Systems Engineering
- ISE 453 Design of Production, Logistics, and Service Systems
- ISE 553 Modeling and Analysis of Supply Chains

Group B Electives (3-6 credit hours)

- BUS 472 Operations Planning and Control Systems
- BUS 474 Logistics Management
- BUS 475 Purchasing and Supply Management
- BUS 479 Supply Chain Management Undergraduate Practicum
Administration of the Minor

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SIS Code: 14SCEM