

# Supply Chain Engineering (Minor)

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.

To be admitted to the program, a student must have a GPA of at least 3.0. Application for admission to any University minor program is now available via MyPack Portal. Admission will be based upon the student's academic record, and in most cases no longer requires departmental review. Go to Add a Minor (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>) to apply.

## Administration of the Minor

**Kanton Reynolds, Ph.D.**

Director, Undergraduate Programs & Associate Teaching Professor  
Edward P. Fitts Department of Industrial & Systems Engineering  
919.515.0605  
[kreynolds@ncsu.edu](mailto:kreynolds@ncsu.edu)

## Plan Requirements

- 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.

Code	Title	Hours
<b>Required Course</b>		<b>3</b>
ISE 411	Supply Chain Economics and Decision Making	
<b>Group A Electives</b>		<b>6-9</b>
ISE 361	Deterministic Models in Industrial Engineering	

ISE 413	Humanitarian Logistics	
ISE 433	Service Systems Engineering	
ISE 453	Modeling and Analysis of Supply Chains	
ISE 553	Modeling and Analysis of Supply Chains	
<b>Group B Electives</b>		<b>3-6</b>
BUS 472	Operations Planning and Control Systems	
BUS 474	Logistics Management	
BUS 475	Purchasing and Supply Management	
BUS 479	Supply Chain Management Undergraduate Practicum	
<b>Total Hours</b>		<b>12-18</b>