Technical Leadership (LTL)
Living Learning Center Minor in Technical Leadership

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Technical Leadership (LTL)
The minor in Technical Leadership is offered through the Living Learning Center in Science and Engineering. The minor in Technical Leadership is designed to give students a mix of skills that are desirable for a successful technically related career but which are not part of every major. Through the minor, students receive a broad exposure to communication, business and computer skills as well as an understanding of larger societal issues. These are areas that alumni, employers and graduate schools say lead to truly successful careers in science, engineering, and related areas.

Requirements for the Minor in Technical Leadership (LTL)
Before declaring the Technical Leadership minor, each student should plan his or her program in consultation with the director of the minor. All courses for the minor must be passed with a letter grade of C or higher.
Completion of the minor requires 19 credits. No more than 6 credits (two courses) may be transferred into the minor.
The minor consists of:
1. LSE 201 Opportunities in Science and Engineering (1 credit)
2. One course from the following:
   - EST 304 Communications for Engineers and Scientists
   - ESE 300 Technical Communication for Electrical and Computer Engineers (for Electrical and Computer Engineering majors only)
   - EST 303 Crisis Communications
   - JRN 101 or JRN 103 News Literacy
Note: EST 303 or EST 304 may not be used to satisfy requirement 5 if used for this requirement
3. BUS 111 Introduction to Business for Non-Business Majors or BUS 115 Introduction to Business for Business Majors
4. Any introductory 3 credit computer programming course including CSE 102
5. Any 300-level 3 credit EST course or ARS 208

Declaration of a Minor
For students who choose to pursue a minor, the minor must be declared no later than the middle of the third year, at which time they consult with the director of the minor and plan their course of study for fulfillment of the requirements. Students must be in a declared major from a specific department by the time of completion of the minor.
LSE

Living/Learning Center: Science and Engineering

LSE 201: Opportunities in Science and Engineering
A survey of the various science and engineering disciplines. Guest speakers describe their respective fields of research and study and the opportunities for students entering the field today. Other topics include ethics, intellectual property and entrepreneurship. The interdisciplinary nature of science and technology is emphasized.
1 credit

LSE 310 - H: Current Issues in Science and Engineering
A study of the issues and events that confront scientists and engineers today. Student presentations and student-led discussions cover such topics as ethics, social responsibilities, the environmental impact of technology, and the economics of research and technology.
3 credits

LSE 320 - H: Future Trends in Science and Engineering
A study of forecasts for developments in science and engineering in the 21st century and their predicted effects on society. Predictions about science and engineering from the early 20th century and their accuracy today. Readings and student-led discussion on essays written by leading scientists and engineers concerning predictions in their fields during the next century. Includes several presentations made by science and engineering faculty on their current research, focusing on the long-term effects of their research on their discipline and on society. Several research papers by students will be required.
Prerequisites: U3 or U4 standing; one course in science or engineering
3 credits

LSE 475: Undergraduate Teaching Practicum
Students work with the instructor in an LSE course in leading discussion sections, helping students improve research skills, or assisting with the educational program presented as part of coursework. Students meet regularly with the supervising instructor.
Prerequisites: U3 or U4 standing; permission of instructor and director of the minor
3 credits, S/U grading