

# ENGINEERING LEADERSHIP AND MANAGEMENT SCIENCE (PH.D.)

IE 8960	Literature Review & Research	3
IE 8930	Global Perspectives and Networks	3

This program is designed to accommodate the busy schedule of working executives. Applicants for this cohort-based program are expected to bring ten years of experience with five years or more of significant managerial experience and management span of control, global experience, a technical B.S. Degree, and a relevant graduate degree. Admission to this program is contingent upon admission to the Graduate School (<https://bulletins.wayne.edu/graduate/general-information/admission/>). Upon completion of the program, the candidate earns a Ph.D. in Engineering Leadership & Management Science. Every year, a limited number of highly qualified, full-time working professionals are admitted for the Winter term (limited admissions in Summer or Fall terms).

## Overall Requirements

Standard Graduate School requirements apply. Additional requirements are outlined below.

## Coursework

The Doctor of Philosophy degree requires sixty credits beyond the baccalaureate degree, eighteen of which must be earned as dissertation credits. All course work must be completed in accordance with the regulations of the Graduate School (<https://bulletins.wayne.edu/graduate/general-information/academic-regulations>) and the College of Engineering (<https://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/>).

- The minimum required dissertation research credits will be 18.
- The minimum required non-dissertation course credits will be 42.
- Dissertation committees will provide input on any additional coursework requirements for individual students.
- Students with academic deficiencies (e.g., those from Mathematics or other non-engineering STEM backgrounds) will be required to take additional prerequisite courses.
- Students will be allowed to transfer up to 12 credits of relevant graduate-level credits (e.g., from MS or MBA programs) with good grades.

## Written Qualifying Examination

To enhance writing skills and provide the learning partners with the opportunity to contribute to the body of teaching knowledge in Engineering Leadership & Management Science, each candidate will draw on their years of relevant experience to develop and defend two (2) original Teaching Case Studies throughout the program. Successful development and defense of these two case studies will serve to satisfy the written qualifying examination requirement of the degree.

## Required Courses

Code	Title	Credits
IE 8941	From Idea through Launch: Products and Services I	2
IE 8942	From Idea through Launch: Products and Services II	3
IE 8943	From Launch through Sustainability: Products and Services I	2
IE 8944	From Launch through Sustainability: Products and Services II	3