

Engineering Education (Minor)

The Engineering Education Minor is designed to provide opportunities to students seeking to expand their knowledge around the science of teaching and learning for engineers. This relatively new discipline is positioned to create unique learning experiences for engineering graduates who are contemplating continuing on (or eventually returning) to graduate school with a goal of ultimately becoming faculty members in the collegiate ranks.

This undergraduate minor will allow this group of students to have an introduction to the required preparation including the development of teaching skills to become successful in this emerging field. In addition, this minor is well-suited for engineering students who are considering non-traditional engineering careers such as technical sales, the development and implementation of educational technology as well as the creation of educational training and programming specifically for the commercial environment.

Admissions

Admission to the minor is limited to students who have at least a 3.0 GPA. Application for admission to any University minor program is now available via MyPack Portal. Go to Add a Minor (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>) to apply.

Certification

The minor must be completed no later than the semester in which the student expects to graduate from their undergraduate degree program.

Certification should be completed no later than during the registration period for the student's final semester as an undergraduate student at NC State.

Contact Person

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SIS Code: 14ENEDM

The minor requires a minimum of 15 credit hours with 3 credit hours from a required core and 12 credit hours from a list of advised electives

Required Course (3 Credit Hours)

Code	Title	Hours
EED 401/501	Teaching Undergraduate Engineers	3

Elective Courses (*12 Credit Hours)

Code	Title	Hours
EED 502	Engineering Education : Content, Assessment, and Pedagogy	3

EED 509	Field Experiences in Engineering Education	3
EED 411/511	Societal Foundations for Engineering Education	3
EED 414/514	Ethics for Engineering Education	3
TED 530	Foundations for Teaching Technology	3
TED 558	Teaching Creative Problem Solving	3
EDP 304	Educational Psychology	3
or EDP 504	Advanced Educational Psychology	
EAC 538	Instructional Strategies In Adult and Higher Education	3

*Or other approved, advised elective