

ENGINEERING: RAILWAY ENGINEERING, MENG

for the Master of Engineering in Engineering, Railway Engineering Concentration

The MEng in Engineering, Railway Engineering Concentration is a professionally oriented degree program for students whose primary intent is a career in industry or government. This degree differs from the Master of Science degree in that it is a terminal degree and not a pathway to a doctoral program. Concentrations under the MEng in Engineering major include Aerospace Systems Engineering (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/aerospace-systems/>), Autonomy and Robotics (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/autonomy-robotics/>), Digital Agriculture (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/digital-agriculture/>), Energy Systems (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/energy-systems/>), Instrumentation and Applied Physics (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/instrumentation-applied-physics/>), Plasma Engineering (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/plasma-engineering/>), and Railway Engineering (p. 1).

This program is a collaborative effort between the Rail Transportation of Engineering Center (RailTEC) and the Railway Group at KTH Royal Institute of Technology in Stockholm, Sweden.

Admission Requirements

The Department of Civil & Environmental Engineering accepts applications for admission to the graduate program for both fall and spring semesters.

Applicants must hold a bachelor's or master's degree in engineering or related fields equivalent to those granted by the University of Illinois at Urbana-Champaign with cumulative grade point average of at least 3.00 (A = 4.00). The Graduate Record Examination (GRE) (<http://www.ets.org/portal/site/ets/menuitem.fab2360b1645a1de9b3a0779f1751509?vgnextoid=b195e3b5f64f4010VgnVCM10000022f95190RCRD>) is required.

Full details of admission requirements are on the Railway Engineering Concentration website (<http://railwaymeng.engineering.illinois.edu/>).

All applicants whose native language is not English are required to submit TOEFL (<http://www.toefl.org/>) or International English Language Testing System (IELTS) (<http://www.ielts.org/>) scores as evidence of English proficiency. Minimum admission requirements (<https://grad.illinois.edu/admissions/instructions/04c/>) are set by the Graduate College.

Financial Aid

Students in concentrations under the MEng in Engineering major are not eligible for Board of Trustees (BOT) tuition-waiver generating assistantships at the University of Illinois.

Other Graduate Programs in the Department of Civil & Environmental Engineering

- degrees:
 - Civil Engineering, MS (<http://catalog.illinois.edu/graduate/engineering/civil-engineering-ms/>)
 - optional concentrations for the MS:
 - Computational Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
 - Data Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/data-science-engineering/>)
 - Civil Engineering, PhD (<http://catalog.illinois.edu/graduate/engineering/civil-engineering-phd/>)
 - optional concentrations:
 - Computational Science and Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
 - Environmental Engineering in Civil Engineering, MS (<http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-ms/>)
 - optional concentrations:
 - Computational Science and Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
 - Environmental Engineering in Civil Engineering, PhD (<http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-phd/>)
 - optional concentrations:
 - Computational Science and Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
 - concentrations:
 - Railway Engineering (p. 1)
 - available for:

- Engineering, MENG (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/>)

- joint programs:

- Civil Engineering, MS & Architecture, MARCH (http://catalog.illinois.edu/graduate/engineering_faa/joint-degree/architecture-march-civil-engineering-ms/), (Construction Management or Structures)
- Civil Engineering, MS & Urban Planning, MS (<http://catalog.illinois.edu/graduate/faa/joint-degree/urban-planning-mup/>)

for the Master of Engineering in Engineering Railway Engineering Concentration

For additional details and requirements, please refer to the concentration's website (<http://railwaymeng.engineering.illinois.edu/>) and the Graduate College Handbook (<http://grad.illinois.edu/gradhandbook/>).

Concentration Requirements

Code	Title	Hours
Core Courses from Illinois		6
CEE 409	Railroad Track Engineering	
CEE 412	High-Speed Rail Engineering	
Alternate Illinois course from approved list for students who have completed one or both of the required courses in previous degree		
Core Courses from KTH		12
CEE 498	Special Topics (RTV, KTH SD2307, Rail Vehicle Technology)	
CEE 498	Special Topics (TMS, KTH AK2036, Theory and Methodology of Science with Applications)	
CEE 598	Special Topics (ET, KTH EJ2400, Electric Traction)	
CEE 598	Special Topics (RVD, KTH SD2313, Rail Vehicle Dynamics)	
Elective Courses from Illinois		14
Railway Elective Courses from Approved List A, minimum 6 hours		
Engineering Elective Courses from Approved List B, minimum 6 hours		
Professional Development courses from approved list		4
Total Hours		36

Other Requirements and Conditions (may overlap)

Requirement	Description
Minimum of 20 credit hours must be taken at the University of Illinois at Urbana-Champaign campus	
Minimum of 12 500-level credit hours in the concentration with at least 8 credit hours in the core concentration	
No courses used to fulfill any degree requirement may be taken using the Credit/No Credit option.	
Minimum program GPA	3.0

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Department Head: Ana Barros

Railway Engineering MEng, Graduate Admissions & Requirements (<https://railwaymeng.engineering.illinois.edu/admissions/>)
 Graduate College Admissions (<https://grad.illinois.edu/admissions/apply/>)

Department Website (<https://cee.illinois.edu/>)

Railway Engineering, MEng Program Website (<https://railwaymeng.engineering.illinois.edu/>)

Department Faculty (<https://cee.illinois.edu/directory/faculty/>)

Grainger College of Engineering Website (<https://grainger.illinois.edu/>)

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