

ENGINEERING: PLASMA ENGINEERING, MENG

for the degree of Master of Engineering in Engineering, Plasma Engineering Concentration (on campus & online)

The MEng in Engineering, Plasma 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/>), and Plasma Engineering (p. 1).

for the degree of Master of Engineering, Major in Engineering, Plasma Engineering Concentration (on campus & online)

Code	Title	Hours
Core Coursework		16
NPRE 421	Plasma and Fusion Science	3
NPRE 423	Plasma Laboratory	2
NPRE 429	Plasma Engineering	3
NPRE 527	Plasma Technology of Gaseous Electronics	4
Must complete one of the following courses:		
NPRE 481	Writing on Technol & Security	3 or 4
ENG 573	Capstone Project	1 to 8
NPRE 523, Plasma Waves		
NPRE 526, Plasma-Materials Interactions		
Additional Coursework		
Elective Courses to be selected with approval of an advisor		12
Professional Development Courses from approved list		4
Total Hours		32
Other Requirements and Conditions (may overlap):		
A minimum of 20 credit hours must be taken from the University of Illinois Urbana-Champaign campus.		
A minimum of 12 500-level credit hours, with a minimum of 8 hours of NPRE 500-level coursework.		
No courses used to fulfill any degree requirements may be taken using the "Credit/No Credit" option		
Minimum GPA:		3.0

for the degree of Master of Engineering in Engineering, Plasma Engineering Concentration (on campus & online)

for the degree of Master of Engineering in Engineering, Plasma Engineering Concentration (on campus & online)

Admission Requirements

Students with bachelor's or master's degrees in engineering or related fields will be considered for admission if they have a grade point average of at least 3.00 (A = 4.00) for the last two years of undergraduate study. Admission is possible for the spring term, but most admissions are for the fall term. Full details of admission requirements are on the Plasma Engineering Concentration website (<https://plasmameng.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 Nuclear, Plasma & Radiological Engineering

- degrees:
- Nuclear, Plasma, & Radiological Engineering, PhD (<http://catalog.illinois.edu/graduate/engineering/nuclear-plasma-radiological-engineering-phd/>)
 - optional concentrations:
 - Computational Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)
- concentrations:
 - Energy Systems (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/energy-systems/>)
 - available for:
 - Engineering, MENG (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/>)
 - Plasma Engineering (p. 1)
 - available for:
 - Engineering, MENG (<http://catalog.illinois.edu/graduate/engineering/engineering-meng/>)

The Department of Nuclear, Plasma & Radiological Engineering (NPRE) offers programs leading to degrees of Master of Science and Doctor of Philosophy in Nuclear, Plasma & Radiological Engineering, as well as Master of Engineering in Engineering with a Concentration in Energy Systems or a Concentration in Plasma Engineering. The Master of Science and Doctor of Philosophy degree programs are centered around five theme areas:

- nuclear power
- plasma physics and fusion
- radiological science
- materials science
- reliability and risk

2 *Engineering: Plasma Engineering, MEng*

Advanced course work and active research programs are offered in all of these areas.

for the degree of Master of Engineering in Engineering, Plasma Engineering Concentration (on campus & online)

Department Head Rizwan Uddin (rizwan@illinois.edu)

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

Department Website (<https://npre.illinois.edu/>)
Plasma Engineering, MEng Program Website
Grainger College of Engineering Website (<https://grainger.illinois.edu/>)

Contact: Amy McCullough

Address: 403 A-2 Engineering Hall, 1308 W Green St, Urbana, IL 61801

phone: (217) 300-2378

email: plasma-meng@illinois.edu