

# Nuclear, Plasma, and Radiological Engineering: Power, Safety & Environment, BS, Curriculum Map

Students should use this curriculum map as a guide to have a more informed discussion with the departmental academic advisor when selecting courses. Students not taking courses as advised may result in a delayed graduation date.

First Year		Second Year		Third Year		Fourth Year	
16-17 hrs	16-17 hrs	17 hrs	15 hrs	17 hrs	15 hrs	17 hrs	14 hrs
NPRE 100 (1)	CS 101 (3) <sup>5</sup>	NPRE 200 (2)	NPRE 247 (3)	NPRE 330 (3) <sup>9</sup>	NPRE 349 (2)	NPRE 321 (3) <sup>9</sup>	NPRE 441 (4)
MATH 221 (4) <sup>1</sup>	MATH 231 (3)	MATH 241 (4)	MATH 285 (3)	MATH 257 (3)	NPRE 451 (3)	NPRE 432 (2)	NPRE 458 (4)
ENG 100 (1) <sup>2</sup>	PHYS 211 (4)	PHYS 212 (4)	ME 200 (3)	NPRE 445 (4)	NPRE 455 (4)	NPRE 449 (3)	Tech Elect (3) <sup>10</sup>
RHET 105 (4) <sup>3,4</sup>	Free Elect (3) <sup>3,6</sup>	TAM 210 (2) <sup>7</sup>	TAM 212 (3) <sup>8</sup>	TAM 335 or ME 310 (4)	ECE 205 (3)	Tech Elect (3) <sup>10</sup>	Tech Elect (3) <sup>10</sup>
CHEM 102 (3)	Gen Ed Elect (3) <sup>4</sup>	Gen Ed Elect (3) <sup>4</sup>	Free Elect (3) <sup>6</sup>	Gen Ed Elect (3) <sup>4</sup>	Tech Elect (3) <sup>10</sup>	Tech Elect (3) <sup>10</sup>	
CHEM 103 (1)		Free Elect (2) <sup>6</sup>				Free Elect (3) <sup>6</sup>	
Gen Ed Elect (3) <sup>4</sup>							

<sup>1</sup>MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 of 5 credit hours count towards the degree.

<sup>2</sup>External transfer students take ENG 300.

<sup>3</sup>RHET 105 (or an alternative Composition I sequence) is taken either in the first or second semester of the first year, according to the student's UIN (Spring if UIN is Odd). A course for free elective is taken the other semester. Composition I guidelines can be found at <http://catalog.illinois.edu/general-information/degree-general-education-requirements/> under Written Communication Requirement.

<sup>4</sup>General education: Students must complete the Campus General Education requirements including the campus general education language requirement. One of the SBS courses must be an introductory economics course (ECON 102 or ECON 103). NPRE 481 will satisfy a technical elective requirement in the Professional Concentration Area and the Campus General Education Advanced Composition requirement.

<sup>5</sup>CS 124 may be taken instead of CS 101 for students interested in pursuing the CS minor.

<sup>6</sup>Additional coursework, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree ([go.grainger.illinois.edu/FreeElectives](http://go.grainger.illinois.edu/FreeElectives)).

<sup>7</sup>TAM 211 may be taken instead of TAM 210. The extra hour may be applied towards the Professional Concentration Area electives.

<sup>8</sup>PHYS 325 may be taken instead of TAM 212 for students pursuing the PHYS minor.

<sup>9</sup>Both NPRE 321 and NPRE 330 are required courses. The order of fall semester in which they are taken is flexible.

<sup>10</sup>Students choose technical electives based on a departmentally approved list of courses. See (<http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs/power-safety-environment/#degreerequirementstext>) for the technical elective list.