

# NUCLEAR ENGINEERING, B.S.

**Begin Campus:** Any Penn State Campus

**End Campus:** University Park

## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition.

### Nuclear Engineering, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

**If you are starting at a campus other than the one this plan is ending at, please refer to:** <https://advising.engr.psu.edu/degree-requirements/academic-plans-by-major.aspx>

#### First Year

Fall	Credits	Spring	Credits
CHEM 110 (GN) <sup>*#†</sup>	3	ENGL 15, 30H, or ESL 15 (GWS) <sup>††</sup>	3
CHEM 111 (GN)	1	MATH 141 or 141E (GQ) <sup>*†#†</sup>	4
ECON 102 or 104 (GS) <sup>†</sup>	3	NUCE 297 (or Other First-Year Seminar)	1
EDSGN 100 <sup>*#</sup>	3	PHYS 211 (GN) <sup>*#†</sup>	4
MATH 140 or 140E (GQ) <sup>*†#†</sup>	4	General Education Course	3
General Education Course	3	General Education Course (GHW)	1.5
	<b>17</b>		<b>16.5</b>

#### Second Year

Fall	Credits	Spring	Credits
CMPSC 200 or 201	3	CAS 100A or 100B (GWS) <sup>††</sup>	3
EMCH 211	3	EMCH 212	3
MATH 251 <sup>*</sup>	4	EMCH 213	3
PHYS 212 (GN) <sup>*†</sup>	4	MATH 230	4
General Education Course	3	PHYS 214	2
		General Education Course (GHW)	1.5
	<b>17</b>		<b>16.5</b>

#### Third Year

Fall	Credits	Spring	Credits
ENGL 202C (GWS) <sup>††</sup>	3	EE 212	3
NUCE 301 <sup>*</sup>	4	EMCH 315	2
NUCE 309 <sup>*</sup>	3	EMCH 316	1
NUCE 310W	2	NUCE 302 <sup>*</sup>	4
NUCE 321	3	NUCE 322	3

	NUCE 450 <sup>*</sup>	3
	<b>15</b>	<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
NUCE 403	3	NUCE 431W	4
NUCE 420	3	Nuclear Engineering Elective (NETE)	3
NUCE 430 <sup>*</sup>	3	General Technical Elective (GTE)	3
NUCE 451	3	General Education Course	3
Nuclear Engineering Elective (NETE)	3	General Education Course (NETE)	3
	<b>15</b>		<b>16</b>

#### Total Credits 129

\* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

# Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

#### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

#### College Notes:

- **General Technical Elective (GTE):** Select from NUCE program lists. Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement and 3 ROTC credits for the GTE requirement. Students who complete three co-op rotations may substitute 3 co-op credits for the GTE requirement.
- **Health and Physical Activity Elective:** Students who complete the ROTC Program may substitute 3 ROTC credits for the GHW requirement and 3 ROTC credits for the GTE requirement.
- **Nuclear Engineering Elective (NETE):** Select from NUCE program lists.
- **These courses offered at University Park in fall semester only:**
  - NUCE 301
  - NUCE 309
  - NUCE 310W

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- NUCE 321
- NUCE 403
- NUCE 420
- NUCE 430
- NUCE 451
- *These courses offered at University Park in spring semester only:*
  - NUCE 302
  - NUCE 322
  - NUCE 431W
  - NUCE 450