

Engineering Physics Curriculum

DEGREE: Bachelor of Science in Engineering Physics

The program is offered jointly by the Physics Department and the College of Engineering

CONCENTRATIONS

Aerospace Engineering (AE)

Chemical Engineering (CHME)

Electrical Engineering (EE)

Mechanical Engineering (ME)

Concentration	Credits						Total Credits*
	CC+VWW	Eng	Phys	Math	Chem	Elect	
AE	37 + 6	48	25	10	4	0	130
CHME	37 + 6	34-35	28	10	11	3	129-130
EE	37 + 6	36	31	10	4	6-7	130-131
ME	37 + 6	41	25	10	4	6	129

* 2017-2018 Catalog

Changes in EP Curriculum (2017-2018)

Aerospace Concentration

- Added: **ME 261** Mechanical Engineering Problem Solving (3 cr.)
- Removed: **ME 159** Graphical Communication and Design (2 cr.)
Technical Elective (3 cr.)
- Replaced **CE 233 & ME 234** with
ME 236 & ME 237 Engineering Mechanics I & II (3+3 cr.)

Chemical Concentration

- Removed: **CHME 302L** Thermodynamic Models of Physical Properties (1 cr.)
- Replaced **CHME 301 & CHME 301** with
CHME 101 Introduction to CHME Calculations (2 cr.)
CHME 303 Thermodynamics (4 cr.)

Changes in EP Curriculum (2017-2018)

Electrical Concentration

- **Replaced** **EE 161, EE 162, EE 210, EE 260, & EE 280** with
EE 100 Introduction to Electrical Engineering (4 cr.)
EE 112 Embedded Systems (4 cr.)
EE 200 Linear Algebra, Probability, and Statistics (4 cr.)
EE 212 Introduction to Computer Organization and Architecture (4 cr.)
EE 230 AC Circuit Analysis and Power Systems (4 cr.)

Mechanical Concentration

- **Added:** **ME 345** Experimental Methods I (3 cr.)
- **Removed:** **ME 328** Engineering Analysis I (3 cr.)
- **Replaced** **CE 233 & ME 234** with
ME 236 & ME 237 Engineering Mechanics I & II (3+3 cr.)

Future Changes in EP Curriculum

Electrical Concentration

- **EE 418 & EE 419** will be replaced with **EE 402** Capstone Design (3 cr.)
- **EE 300** Cornerstone Design (2 cr.) & **EE 325** Signals & Systems II (4cr.) will be added as **EE 402** prerequisites.

All Concentrations

- Engineering College will introduce interdisciplinary Capstone Design course.
- New GenEd requirements will be introduced in 2019.

EP Curriculum Challenges

- Upcoming ABET review.
- Physics & Chemistry courses not counted as engineering topics by ABET.
- Continuing changes in engineering curriculum affect EP program.