

**KRSN PHY 2030 - Engineering Physics II with Lab**

**KRSN PHY 2031 – Engineering Physics II**

**KRSN PHY 2032 – Engineering Physics II Lab**

For specific Institutional Transfer Articulation information visit: [kansasregents.org/institutional-transfer-information](http://kansasregents.org/institutional-transfer-information).

<b>Institution</b>	<b>Course ID</b>	<b>Course Title</b>	<b>Credit Hours</b>
Allen CC	PSC 205	Engineering Physics II	5
Barton CC	PHYS 1606	Engineering Physics II	5
Butler CC	PH 252	Physics II	5
Cloud County CC	SC 143	University Physics II	5
Coffeyville CC	ENGR 211	Engineering Physics II	5
Colby CC	PH 228	Engineering Physics II (with Lab)	5
Cowley CC	PHS 4561	Engineering Physics II	5
Dodge City CC	PHYS 233	Engineering Physics II	5
	PHYY 233	Engineering Physics II Lab	0
Fort Scott CC	PHS 2025	College Physics II	5
Garden City CC	PHYS 208	Engineering Physics II	5
Highland CC	PS 216	College Physics II	5
Hutchinson CC	PY 202	Engineering Physics II	5
Independence CC	PHS 2065	Engineering Physics II	5
JCCC	PHYS 221	Engineering Physics II	5
KCKCC	NASC 0246	Engineering Physics II	5
Labette CC	PHYS 208	Engineering Physics II	5
Neosho County CC	PHYS 105	Engineering Physics II	4
	PHYS 145	Engineering Physics II Lab	1
Pratt CC	Not Offered	Not Offered	
Seward County CC	PS 2515	Engineering Physics II	5
FHTC	Not Offered	Not Offered	
Manhattan Tech	Not Offered	Not Offered	
NCK Tech	Not Offered	Not Offered	
NWKTC	Not Offered	Not Offered	
SATC	Not Offered	Not Offered	
WATC	Not Offered	Not Offered	
ESU	PH 393*	Physics II	3
	PH 394*	Physics II Lab	1
	PH 395*	Physics II Recitation	1
FHSU	PHYS 212	Physics for Scientists and Engineers II	4
	PHYS 212L	Physics for Scientists and Engineers II Laboratory	1
KSU	PHYS 214	Engineering Physics II	5
PSU	PHYS 105	Engineering Physics II	4
	PHYS 131	Elementary Physics Lab II	1
KU	PHSX 212	General Physics II	3
	PHSX 236	General Physics II Lab	1
WSU	PHYS 314*	Physics for Scientists II	4
	PHYS 316*	University Physics Lab II	1
Washburn	PS 282	General Physics II	5

\* The decision for lower division courses to count toward upper division credit hours required for graduation is at the discretion of the institution.

## **Engineering Physics II with Lab – PHY 2030/PHY 2031/PHY 2032 CORE OUTCOMES**

Course Effective Date: Summer 2016

Outcome Approval Date: Fall 2015

Next Outcome Review Date: Fall 2020

Engineering Physics II (and associated laboratory experience) is the continuation of Engineering Physics I (PHY 1030/PHY 1031/ PHY 1032) using the tools of algebra, trigonometry, and calculus.

Topics covered in this course will include electricity and magnetism, electromagnetic waves, and optics.

At the conclusion of this course, students will be able to:

1. Evaluate situations involving Engineering Physics II topics by choosing the appropriate conceptual frameworks.
2. Recall relevant physical models and to successfully apply these models using techniques of symbolic and numerical analysis in order to generate solutions to problems in Engineering Physics II topics.
3. Think critically by utilizing problem solving techniques to evaluate and analyze context rich, multi-step problems in Engineering Physics II topics, selecting relevant information, selecting an approach to solving the problem and carry out the analysis needed to generate and communicate solution(s).
4. Perform measurements using physical apparatus, analyze the collected data including appropriate treatment of errors and uncertainties, generate and communicate conclusions based on the data and analysis for experimental investigations in Engineering Physics II topics.