

**KRSN PHY1030 Engineering Physics I with Lab**  
**KRSN PHY1031 Engineering Physics I**  
**KRSN PHY1032 Engineering Physics I 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 204	Engineering Physics I w/lab	5
Barton CC	PHYS 1604	Engineering Physics I	5
Butler CC	PH 251	Physics I	5
Cloud County CC	SC 142	University Physics I	5
Coffeyville CC	ENGR 210	Engineering Physics I	5
Colby CC	PH 208	Engineering Physics I (with Lab)	5
Cowley CC	PHS 4560	Engineering Physics I	5
Dodge City CC	PHYS 231	Engineering Physics I	5
Fort Scott CC	PHS 2015	College Physics I	5
Garden City CC	PHYS 207	Engineering Physics I	5
Highland CC	PS 215	College Physics I	5
Hutchinson CC	PY 201	Engineering Physics I	5
Independence CC	PHS 2055	Engineering Physics I	5
JCCC	PHYS 220	Engineering Physics I	5
KCKCC	NASC 0245	Engineering Physics I	5
Labette CC	PHYS 203	Engineering Physics I	5
Neosho County CC	PHYS 104	Engineering Physics I	4
	PHYS 140	Engineering Physics I Lab	1
Pratt CC	Not Offered	Not Offered	
Seward County CC	PS 2505	Engineering Physics I	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 190	Physics I	3
	PH 191	Physics I Lab	1
	PH 192	Physics I Recitation	1
FHSU	PHYS 211	Physics for Scientists and Engineers I	4
	PHYS 211L	Physics for Scientists and Engineers I Lab	1
KSU	PHYS 213	Engineering Physics I	5
PSU	PHYS 104	Engineering Physics I	4
	PHYS 130	Elementary Physics Lab I	1
KU	PHSX 211 and	General Physics I and	4
	PHSX 216	General Physics I Lab	1
WSU	PHYS 313*	Physics for Scientists I	4
	PHYS 315*	University Physics Lab I	1
Washburn	PS 281	Gen Physics I	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 I with Lab - PHY 1030/PHY 1031/ PHY 1032 CORE OUTCOMES**

Course Effective Date: Summer 2016

Outcome Approval Date: Fall 2015

Next Outcome Review Date: Fall 2020

Engineering Physics I (and associated laboratory experience) is the study of translational and rotational motion, force, work, mechanical and thermal energy, linear and angular momentum, mechanical waves, and fluid mechanics using the tools of algebra, trigonometry, and calculus.

Upon completion of this course, students will be able to:

1. Evaluate situations involving Engineering Physics I 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 I topics.
3. Think critically by utilizing problem solving techniques to evaluate and analyze context rich, multi-step problems in Engineering Physics I topics, selecting relevant information, selecting an approach to solving the problem and carrying 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 I topics.