

**Examination:** Fundamentals of Engineering (FE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jan 01—Jun 30, 2018  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs  
**Graduation Date:** Examinees testing more than 12 months after graduation date

Name of Institution:	University of Kentucky, Paducah		
Major:	Mechanical	FE Examination:	Mechanical

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	839
No. Examinees Passing	1	635
Percent Examinees Passing	100%	76%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 1.00
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	Number of Exam Questions	Institution Average Performance Index <sup>3</sup>	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score <sup>4</sup>	Scaled Score <sup>4</sup>
Mathematics	6	8.2	10.0	3.0	0.82	-0.60
Probability and Statistics	4	6.2	10.1	3.3	0.61	-1.18
Computational Tools	3	15.0	10.5	4.1	1.43	1.10
Ethics and Professional Practice	3	7.7	11.4	3.9	0.68	-0.95
Engineering Economics	3	8.5	10.4	4.1	0.82	-0.46
Electricity and Magnetism	3	7.3	10.2	4.1	0.72	-0.71
Statics	8	9.1	9.6	2.3	0.95	-0.22
Dynamics, Kinematics, and Vibrations	9	7.8	9.5	2.2	0.82	-0.77
Mechanics of Materials	8	10.1	9.2	1.9	1.10	0.47
Material Properties and Processing	8	8.5	9.5	2.2	0.89	-0.45
Fluid Mechanics	9	8.6	9.7	2.2	0.89	-0.50
Thermodynamics	13	10.8	9.2	1.5	1.17	1.07
Heat Transfer	9	8.7	9.3	2.2	0.94	-0.27
Measurements, Instrumentation, and Controls	5	7.0	8.6	3.4	0.81	-0.47
Mechanical Design and Analysis	9	8.1	8.8	2.5	0.92	-0.28

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <http://ncees.org/licensure/educator-resources/>.

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