

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2016
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees Testing within 12 months of Graduation Date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	1,017
No. Examinees Passing	1	803
Percent Examinees Passing	100%	79%

Uncertainty Range for Scaled Score ⁴ ± 1.00
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	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Mathematics	8	9.4	10.6	3.2	0.89	-0.38
Probability and Statistics	4	15.0	10.5	3.4	1.43	1.32
Engineering Sciences	4	15.0	10.3	3.5	1.46	1.34
Computational Tools	4	9.2	10.3	3.4	0.89	-0.32
Materials Science	4	7.6	10.4	3.3	0.73	-0.85
Chemistry	8	11.1	10.3	3.0	1.08	0.27
Fluid Mechanics/Dynamics	8	15.0	9.6	2.3	1.56	2.35
Thermodynamics	8	9.0	9.4	1.9	0.96	-0.21
Material/Energy Balances	8	15.0	9.7	2.5	1.55	2.12
Heat Transfer	8	8.9	9.9	2.4	0.90	-0.42
Mass Transfer and Separation	8	11.3	9.6	2.1	1.18	0.81
Chemical Reaction Engineering	8	11.2	9.7	2.1	1.15	0.71
Process Design and Economics	8	11.9	9.9	2.8	1.20	0.71
Process Control	5	15.0	9.8	3.2	1.53	1.63
Safety, Health, and Environment	5	8.5	9.6	3.5	0.89	-0.31
Ethics and Professional Practice	2	6.5	10.8	5.4	0.60	-0.80

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	3,626
No. Examinees Passing	4	2,906
Percent Examinees Passing	100%	80%

Uncertainty Range for Scaled Score ⁴ ± 0.50
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	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Mathematics	6	9.2	10.4	3.0	0.88	-0.40
Probability and Statistics	4	9.9	10.0	3.2	0.99	-0.03
Computational Tools	3	13.1	10.8	4.0	1.21	0.58
Ethics and Professional Practice	3	13.3	11.5	4.0	1.16	0.45
Engineering Economics	3	9.7	10.3	4.1	0.94	-0.15
Electricity and Magnetism	3	12.1	10.3	3.9	1.17	0.46
Statics	8	9.5	9.7	2.4	0.98	-0.08
Dynamics, Kinematics, and Vibrations	9	9.1	9.6	2.1	0.95	-0.24
Mechanics of Materials	8	8.8	9.5	2.1	0.93	-0.33
Material Properties and Processing	8	8.9	9.8	2.3	0.91	-0.39
Fluid Mechanics	9	9.4	9.8	2.2	0.96	-0.18
Thermodynamics	13	9.4	9.3	1.5	1.01	0.07
Heat Transfer	9	9.6	9.6	2.2	1.00	0.00
Measurements, Instrumentation, and Controls	5	9.3	9.4	3.0	0.99	-0.03
Mechanical Design and Analysis	9	10.9	9.3	2.3	1.17	0.70

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