

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jun 01—Nov 30, 2015
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	507
No. Examinees Passing	1	384
Percent Examinees Passing	100%	76%

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	15.0	10.7	3.1	1.40	1.39
Probability and Statistics	4	9.7	10.6	3.5	0.92	-0.26
Engineering Sciences	4	15.0	10.5	3.4	1.43	1.32
Computational Tools	4	6.1	10.2	3.3	0.60	-1.24
Materials Science	4	9.6	10.4	3.2	0.92	-0.25
Chemistry	8	15.0	10.4	2.9	1.44	1.59
Fluid Mechanics/Dynamics	8	9.2	9.6	2.4	0.96	-0.17
Thermodynamics	8	9.8	9.2	2.0	1.07	0.30
Material/Energy Balances	8	11.1	9.4	2.5	1.18	0.68
Heat Transfer	8	15.0	9.8	2.4	1.53	2.17
Mass Transfer and Separation	8	7.9	9.2	2.0	0.86	-0.65
Chemical Reaction Engineering	8	9.7	9.5	2.2	1.02	0.09
Process Design and Economics	8	11.0	9.7	2.7	1.13	0.48
Process Control	5	15.0	9.3	3.2	1.61	1.78
Safety, Health, and Environment	5	11.2	9.5	3.3	1.18	0.52
Ethics and Professional Practice	2	15.0	11.1	5.4	1.35	0.72

- 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	2	2,194
No. Examinees Passing	0	1,744
Percent Examinees Passing	0%	79%

Uncertainty Range for Scaled Score ⁴ ± 0.71
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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	7.1	10.4	3.0	0.68	-1.10
Probability and Statistics	4	7.4	10.0	3.2	0.74	-0.81
Computational Tools	3	12.0	10.9	4.2	1.10	0.26
Ethics and Professional Practice	3	11.6	11.5	3.9	1.01	0.03
Engineering Economics	3	7.5	10.1	4.4	0.74	-0.59
Electricity and Magnetism	3	6.6	10.6	4.1	0.62	-0.98
Statics	8	6.6	9.9	2.6	0.67	-1.27
Dynamics, Kinematics, and Vibrations	9	7.8	9.7	2.2	0.80	-0.86
Mechanics of Materials	8	9.4	9.5	2.0	0.99	-0.05
Material Properties and Processing	8	8.5	9.8	2.3	0.87	-0.57
Fluid Mechanics	9	7.4	9.8	2.2	0.76	-1.09
Thermodynamics	13	8.6	9.4	1.5	0.91	-0.53
Heat Transfer	9	8.0	9.5	2.1	0.84	-0.71
Measurements, Instrumentation, and Controls	5	7.3	9.1	3.3	0.80	-0.55
Mechanical Design and Analysis	9	8.3	9.2	2.3	0.90	-0.39

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