

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2017
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, Lexington	
Major:	Agricultural	FE Examination:	Other Disciplines

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	4
No. Examinees Passing	1	2
Percent Examinees Passing	50%	50%

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 and Advanced Engineering Mathematics	12	7.8	8.5	1.4	0.92	-0.50
Probability and Statistics	6	8.4	9.3	3.5	0.90	-0.26
Chemistry	7	8.4	8.6	0.8	0.98	-0.25
Instrumentation and Data Acquisition	4	12.2	10.6	2.7	1.15	0.59
Ethics and Professional Practice	3	3.9	7.8	5.3	0.50	-0.74
Safety, Health, and Environment	4	8.1	7.9	0.3	1.03	0.67
Engineering Economics	7	11.8	11.7	3.3	1.01	0.03
Statics	8	9.3	10.1	3.2	0.92	-0.25
Dynamics	7	8.2	9.2	3.5	0.89	-0.29
Strength of Materials	8	9.8	9.1	1.1	1.08	0.64
Materials Science	6	9.2	9.3	0.9	0.99	-0.11
Fluid Mechanics and Dynamics of Liquids	8	8.4	10.2	2.9	0.82	-0.62
Fluid Mechanics and Dynamics of Gases	4	7.7	7.7	0.1	1.00	0.00
Electricity, Power, and Magnetism	7	8.6	10.2	2.8	0.84	-0.57
Heat, Mass, and Energy Transfer	9	7.0	8.0	2.2	0.88	-0.45

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Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	FE Examination:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	521
No. Examinees Passing	2	297
Percent Examinees Passing	100%	57%

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	7	12.4	9.5	3.0	1.31	0.97
Probability and Statistics	4	12.0	9.4	3.6	1.28	0.72
Computational Tools	4	12.2	9.8	3.7	1.24	0.65
Ethics and Professional Practice	4	11.8	10.1	3.4	1.17	0.50
Engineering Economics	4	12.0	9.3	3.6	1.29	0.75
Statics	7	9.4	8.9	2.7	1.06	0.19
Dynamics	4	9.9	9.6	3.6	1.03	0.08
Mechanics of Materials	7	9.4	8.8	2.5	1.07	0.24
Materials	4	8.2	8.9	3.4	0.92	-0.21
Fluid Mechanics	4	11.3	9.9	3.8	1.14	0.37
Hydraulics and Hydrologic Systems	8	12.9	9.1	2.3	1.42	1.65
Structural Analysis	6	10.7	8.6	2.5	1.24	0.84
Structural Design	6	12.8	8.5	2.6	1.51	1.65
Geotechnical Engineering	9	10.7	8.9	1.9	1.20	0.95
Transportation Engineering	8	9.6	8.9	2.0	1.08	0.35
Environmental Engineering	6	13.0	8.5	2.5	1.53	1.80
Construction	4	12.5	9.8	3.7	1.28	0.73
Surveying	4	11.7	8.0	3.8	1.46	0.97

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Name of Institution:	University of Kentucky, Lexington		
Major:	Electrical	FE Examination:	Electrical and Computer

	Institution	ABET Comparator ²
No. Examinees Taking ¹	8	522
No. Examinees Passing	7	331
Percent Examinees Passing	88%	63%

Uncertainty Range for Scaled Score ⁴ ± 0.35
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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	11	10.5	9.4	2.4	1.12	0.46
Probability and Statistics	4	11.8	10.0	3.5	1.18	0.51
Ethics and Professional Practice	3	9.3	11.1	4.1	0.84	-0.44
Engineering Economics	3	10.9	9.9	4.0	1.10	0.25
Properties of Electrical Materials	4	10.5	9.4	3.2	1.12	0.34
Engineering Sciences	6	11.0	9.6	3.0	1.15	0.47
Circuit Analysis (DC and AC Steady State)	10	9.4	9.1	2.0	1.03	0.15
Linear Systems	5	8.7	9.1	3.0	0.96	-0.13
Signal Processing	5	7.6	8.7	2.9	0.87	-0.38
Electronics	7	8.5	8.9	2.4	0.96	-0.17
Power	8	8.9	9.1	2.3	0.98	-0.09
Electromagnetics	5	9.5	8.8	2.6	1.08	0.27
Control Systems	6	8.6	8.6	2.4	1.00	0.00
Communications	5	9.4	8.4	2.7	1.12	0.37
Computer Networks	3	8.9	8.5	4.2	1.05	0.10
Digital Systems	7	10.2	8.8	2.7	1.16	0.52
Computer Systems	4	9.0	8.6	3.6	1.05	0.11
Software Development	4	12.6	9.3	4.2	1.35	0.79

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	821
No. Examinees Passing	4	640
Percent Examinees Passing	100%	78%

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	13.6	10.5	3.1	1.30	1.00
Probability and Statistics	4	9.8	9.6	3.3	1.02	0.06
Computational Tools	3	11.7	11.3	3.9	1.04	0.10
Ethics and Professional Practice	3	11.5	11.2	3.8	1.03	0.08
Engineering Economics	3	12.1	10.4	4.1	1.16	0.41
Electricity and Magnetism	3	13.1	10.2	4.2	1.28	0.69
Statics	8	11.4	9.7	2.4	1.18	0.71
Dynamics, Kinematics, and Vibrations	9	9.9	9.7	2.1	1.02	0.10
Mechanics of Materials	8	10.1	9.5	2.1	1.06	0.29
Material Properties and Processing	8	11.2	9.8	2.2	1.14	0.64
Fluid Mechanics	9	10.7	9.7	2.3	1.10	0.43
Thermodynamics	13	9.8	9.3	1.5	1.05	0.33
Heat Transfer	9	9.6	9.6	2.3	1.00	0.00
Measurements, Instrumentation, and Controls	5	10.8	9.0	3.1	1.20	0.58
Mechanical Design and Analysis	9	9.7	9.0	2.5	1.08	0.28

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