

**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 within 12 months of Graduation Date

Name of Institution:		University of Kentucky, Lexington	
Major:	Agricultural	FE Examination:	Other Disciplines

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	4	28
No. Examinees Passing	4	23
Percent Examinees Passing	100%	82%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.50
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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 and Advanced Engineering Mathematics	12	9.6	8.9	1.2	1.08	0.58
Probability and Statistics	6	12.5	10.3	2.7	1.21	0.81
Chemistry	7	11.0	9.8	2.2	1.12	0.55
Instrumentation and Data Acquisition	4	10.3	10.2	2.7	1.01	0.04
Ethics and Professional Practice	3	15.0	11.4	3.7	1.32	0.97
Safety, Health, and Environment	4	8.8	11.0	3.0	0.80	-0.73
Engineering Economics	7	9.4	9.3	1.6	1.01	0.06
Statics	8	9.6	9.8	2.0	0.98	-0.10
Dynamics	7	12.5	9.9	2.3	1.26	1.13
Strength of Materials	8	11.3	10.0	2.4	1.13	0.54
Materials Science	6	10.8	10.0	2.0	1.08	0.40
Fluid Mechanics and Dynamics of Liquids	8	10.5	9.1	2.0	1.15	0.70
Fluid Mechanics and Dynamics of Gases	4	11.3	10.9	3.8	1.04	0.11
Electricity, Power, and Magnetism	7	9.0	9.2	1.9	0.98	-0.11
Heat, Mass, and Energy Transfer	9	10.4	9.5	1.9	1.09	0.47

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**Graduation Date:** Examinees Testing within 12 months of Graduation Date

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	4	552
No. Examinees Passing	4	392
Percent Examinees Passing	100%	71%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.50
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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	8	8.9	10.5	3.1	0.85	-0.52
Probability and Statistics	4	12.1	10.7	3.6	1.13	0.39
Engineering Sciences	4	13.1	10.4	3.6	1.26	0.75
Computational Tools	4	11.2	10.2	3.5	1.10	0.29
Materials Science	4	10.2	9.9	3.3	1.03	0.09
Chemistry	8	9.1	10.5	3.0	0.87	-0.47
Fluid Mechanics/Dynamics	8	8.1	9.6	2.4	0.84	-0.63
Thermodynamics	8	9.5	9.4	2.1	1.01	0.05
Material/Energy Balances	8	10.0	9.6	2.6	1.04	0.15
Heat Transfer	8	10.4	10.1	2.7	1.03	0.11
Mass Transfer and Separation	8	8.1	9.7	2.2	0.84	-0.73
Chemical Reaction Engineering	8	9.3	9.7	2.5	0.96	-0.16
Process Design and Economics	8	9.6	9.5	2.6	1.01	0.04
Process Control	5	9.7	9.5	3.5	1.02	0.06
Safety, Health, and Environment	5	8.5	9.3	3.7	0.91	-0.22
Ethics and Professional Practice	2	13.1	11.5	5.0	1.14	0.32

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

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

<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	7	8.3	8.3	0.0	1.00	—
Probability and Statistics	4	9.0	9.0	0.0	1.00	—
Computational Tools	4	10.1	10.1	0.0	1.00	—
Ethics and Professional Practice	4	15.0	15.0	0.0	1.00	—
Engineering Economics	4	8.0	8.0	0.0	1.00	—
Statics	7	10.3	10.3	0.0	1.00	—
Dynamics	4	15.0	15.0	0.0	1.00	—
Mechanics of Materials	7	9.1	9.1	0.0	1.00	—
Materials	4	8.3	8.3	0.0	1.00	—
Fluid Mechanics	4	15.0	15.0	0.0	1.00	—
Hydraulics and Hydrologic Systems	8	15.0	15.0	0.0	1.00	—
Structural Analysis	6	15.0	15.0	0.0	1.00	—
Structural Design	6	7.5	7.5	0.0	1.00	—
Geotechnical Engineering	9	15.0	15.0	0.0	1.00	—
Transportation Engineering	8	8.3	8.3	0.0	1.00	—
Environmental Engineering	6	7.4	7.4	0.0	1.00	—
Construction	4	15.0	15.0	0.0	1.00	—
Surveying	4	15.0	15.0	0.0	1.00	—

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	25	3,187
No. Examinees Passing	21	2,182
Percent Examinees Passing	84%	68%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.20
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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	7	9.9	9.8	2.8	1.01	0.04
Probability and Statistics	4	10.1	9.6	3.3	1.05	0.15
Computational Tools	4	10.9	9.7	3.6	1.12	0.33
Ethics and Professional Practice	4	9.7	9.9	3.3	0.98	-0.06
Engineering Economics	4	10.9	10.0	3.6	1.09	0.25
Statics	7	9.5	9.4	2.7	1.01	0.04
Dynamics	4	11.6	10.0	3.5	1.16	0.46
Mechanics of Materials	7	9.6	9.1	2.2	1.05	0.23
Materials	4	9.9	9.1	3.1	1.09	0.26
Fluid Mechanics	4	10.4	10.2	3.6	1.02	0.06
Hydraulics and Hydrologic Systems	8	10.5	9.4	2.4	1.12	0.46
Structural Analysis	6	8.7	8.9	2.4	0.98	-0.08
Structural Design	6	8.3	8.8	2.4	0.94	-0.21
Geotechnical Engineering	9	9.4	9.1	1.9	1.03	0.16
Transportation Engineering	8	9.8	9.2	2.0	1.07	0.30
Environmental Engineering	6	9.3	9.1	2.4	1.02	0.08
Construction	4	9.7	10.0	3.5	0.97	-0.09
Surveying	4	9.0	8.7	3.6	1.03	0.08

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	49
No. Examinees Passing	0	30
Percent Examinees Passing	0%	61%

<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	11	8.4	9.3	2.5	0.90	-0.36
Probability and Statistics	4	8.4	9.6	3.8	0.88	-0.32
Ethics and Professional Practice	3	15.0	11.8	3.5	1.27	0.91
Engineering Economics	3	6.4	8.8	3.9	0.73	-0.62
Properties of Electrical Materials	4	9.5	8.3	3.6	1.14	0.33
Engineering Sciences	6	6.5	8.8	3.1	0.74	-0.74
Circuit Analysis (DC and AC Steady State)	10	7.2	9.0	2.3	0.80	-0.78
Linear Systems	5	6.8	8.7	2.7	0.78	-0.70
Signal Processing	5	7.8	9.4	2.6	0.83	-0.62
Electronics	7	6.7	8.7	2.6	0.77	-0.77
Power	8	7.2	8.3	2.0	0.87	-0.55
Electromagnetics	5	6.2	8.4	2.8	0.74	-0.79
Control Systems	6	9.3	8.7	2.6	1.07	0.23
Communications	5	9.7	7.8	3.1	1.24	0.61
Computer Networks	3	7.4	9.5	4.6	0.78	-0.46
Digital Systems	7	7.7	9.6	2.8	0.80	-0.68
Computer Systems	4	15.0	9.9	2.9	1.52	1.76
Software Development	4	6.2	10.3	3.7	0.60	-1.11

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	6	837
No. Examinees Passing	5	598
Percent Examinees Passing	83%	71%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.41
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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	11	9.8	9.7	2.4	1.01	0.04
Probability and Statistics	4	9.0	9.8	3.3	0.92	-0.24
Ethics and Professional Practice	3	11.6	11.8	3.8	0.98	-0.05
Engineering Economics	3	10.2	9.5	4.2	1.07	0.17
Properties of Electrical Materials	4	11.5	9.5	3.4	1.21	0.59
Engineering Sciences	6	11.3	9.9	3.2	1.14	0.44
Circuit Analysis (DC and AC Steady State)	10	10.4	9.5	2.1	1.09	0.43
Linear Systems	5	10.7	9.5	3.0	1.13	0.40
Signal Processing	5	9.7	8.9	2.7	1.09	0.30
Electronics	7	9.4	9.3	2.4	1.01	0.04
Power	8	10.0	9.2	2.1	1.09	0.38
Electromagnetics	5	10.9	9.0	2.8	1.21	0.68
Control Systems	6	8.5	9.3	2.7	0.91	-0.30
Communications	5	10.5	9.2	2.6	1.14	0.50
Computer Networks	3	7.5	8.8	4.1	0.85	-0.32
Digital Systems	7	10.8	9.3	2.6	1.16	0.58
Computer Systems	4	11.1	9.0	3.4	1.23	0.62
Software Development	4	12.8	9.9	4.2	1.29	0.69

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Name of Institution:		University of Kentucky, Lexington	
Major:	Materials	FE Examination:	Other Disciplines

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	15
No. Examinees Passing	1	14
Percent Examinees Passing	100%	93%

<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 and Advanced Engineering Mathematics	12	11.0	10.1	1.5	1.09	0.60
Probability and Statistics	6	7.3	9.6	1.8	0.76	-1.28
Chemistry	7	9.3	11.5	2.6	0.81	-0.85
Instrumentation and Data Acquisition	4	15.0	10.2	3.8	1.47	1.26
Ethics and Professional Practice	3	15.0	12.6	3.4	1.19	0.71
Safety, Health, and Environment	4	8.4	11.2	2.7	0.75	-1.04
Engineering Economics	7	8.6	9.2	1.8	0.93	-0.33
Statics	8	9.2	10.0	2.5	0.92	-0.32
Dynamics	7	9.5	9.8	1.7	0.97	-0.18
Strength of Materials	8	9.4	9.9	2.0	0.95	-0.25
Materials Science	6	10.6	11.0	2.7	0.96	-0.15
Fluid Mechanics and Dynamics of Liquids	8	9.2	9.1	1.0	1.01	0.10
Fluid Mechanics and Dynamics of Gases	4	8.3	9.0	1.9	0.92	-0.37
Electricity, Power, and Magnetism	7	11.4	10.0	1.9	1.14	0.74
Heat, Mass, and Energy Transfer	9	10.4	9.5	0.8	1.09	1.13

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	4	2,391
No. Examinees Passing	3	1,915
Percent Examinees Passing	75%	80%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.50
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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	9.9	10.4	2.9	0.95	-0.17
Probability and Statistics	4	11.6	9.5	3.2	1.22	0.66
Computational Tools	3	11.9	11.2	4.0	1.06	0.18
Ethics and Professional Practice	3	13.5	11.0	3.9	1.23	0.64
Engineering Economics	3	9.6	10.3	4.1	0.93	-0.17
Electricity and Magnetism	3	8.1	10.0	4.0	0.81	-0.48
Statics	8	11.2	9.6	2.3	1.17	0.70
Dynamics, Kinematics, and Vibrations	9	8.6	9.6	2.0	0.90	-0.50
Mechanics of Materials	8	9.2	9.4	1.9	0.98	-0.11
Material Properties and Processing	8	9.0	9.7	2.1	0.93	-0.33
Fluid Mechanics	9	8.7	9.6	2.2	0.91	-0.41
Thermodynamics	13	8.8	9.3	1.5	0.95	-0.33
Heat Transfer	9	7.6	9.6	2.2	0.79	-0.91
Measurements, Instrumentation, and Controls	5	10.3	9.4	2.8	1.10	0.32
Mechanical Design and Analysis	9	11.3	9.2	2.1	1.23	1.00

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**Graduation Date:** Examinees Testing within 12 months of Graduation Date

Name of Institution:	University of Kentucky, Lexington		
Major:	Mining/Mineral	FE Examination:	Other Disciplines

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	4	34
No. Examinees Passing	4	25
Percent Examinees Passing	100%	74%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.50
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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 and Advanced Engineering Mathematics	12	10.1	9.1	1.5	1.11	0.67
Probability and Statistics	6	12.4	10.1	2.7	1.23	0.85
Chemistry	7	9.6	9.6	1.9	1.00	0.00
Instrumentation and Data Acquisition	4	13.4	10.1	3.6	1.33	0.92
Ethics and Professional Practice	3	11.7	11.5	3.6	1.02	0.06
Safety, Health, and Environment	4	15.0	12.0	3.5	1.25	0.86
Engineering Economics	7	12.5	10.2	2.7	1.23	0.85
Statics	8	10.9	9.0	1.8	1.21	1.06
Dynamics	7	9.5	9.5	2.4	1.00	0.00
Strength of Materials	8	10.1	8.6	2.0	1.17	0.75
Materials Science	6	8.2	9.3	2.0	0.88	-0.55
Fluid Mechanics and Dynamics of Liquids	8	9.7	9.5	2.5	1.02	0.08
Fluid Mechanics and Dynamics of Gases	4	8.5	9.3	3.2	0.91	-0.25
Electricity, Power, and Magnetism	7	9.6	9.4	2.4	1.02	0.08
Heat, Mass, and Energy Transfer	9	9.8	9.2	1.5	1.07	0.40

- 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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