

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2019
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:	Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	5
No. Examinees Passing	1	5
Percent Examinees Passing	100%	100%

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	4	15.0	12.9	2.6	1.16	0.81
Probability and Statistics	3	10.0	11.5	3.0	0.87	-0.50
Ethics and Professional Practice	5	7.3	11.0	3.4	0.66	-1.09
Engineering Economics	4	7.7	12.0	3.7	0.64	-1.16
Materials Science	3	8.3	12.3	3.4	0.67	-1.18
Environmental Science and Chemistry	11	7.9	9.9	2.6	0.80	-0.77
Risk Assessment	5	10.5	11.9	2.6	0.88	-0.54
Fluid Mechanics	9	9.6	12.8	2.7	0.75	-1.19
Thermodynamics	3	7.0	10.4	3.8	0.67	-0.89
Water Resources	10	9.0	10.0	0.9	0.90	-1.11
Water and Wastewater	14	8.8	9.6	1.2	0.92	-0.67
Air Quality	10	6.5	9.2	1.4	0.71	-1.93
Solid and Hazardous Waste	10	9.7	10.3	0.8	0.94	-0.75
Groundwater and Soils	9	8.1	9.5	1.4	0.85	-1.00

- 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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Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	263
No. Examinees Passing	1	199
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	9.5	10.3	2.9	0.92	-0.28
Probability and Statistics	4	8.3	10.6	3.3	0.78	-0.70
Engineering Sciences	4	15.0	10.2	3.7	1.47	1.30
Computational Tools	4	8.2	10.0	3.2	0.82	-0.56
Materials Science	4	9.4	10.5	3.1	0.90	-0.35
Chemistry	8	9.9	10.1	3.1	0.98	-0.06
Fluid Mechanics/Dynamics	8	15.0	10.2	2.5	1.47	1.92
Thermodynamics	8	10.0	9.4	2.1	1.06	0.29
Material/Energy Balances	8	15.0	9.4	2.4	1.60	2.33
Heat Transfer	8	10.5	10.2	2.6	1.03	0.12
Mass Transfer and Separation	8	10.6	9.3	2.4	1.14	0.54
Chemical Reaction Engineering	8	9.1	9.2	2.5	0.99	-0.04
Process Design and Economics	8	15.0	9.5	2.9	1.58	1.90
Process Control	5	11.1	8.9	3.3	1.25	0.67
Safety, Health, and Environment	5	11.2	9.3	3.7	1.20	0.51
Ethics and Professional Practice	2	7.1	10.5	5.8	0.68	-0.59

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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:	Civil	FE Examination:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	749
No. Examinees Passing	2	433
Percent Examinees Passing	33%	58%

Uncertainty Range for Scaled Score ⁴ ± 0.41
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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	8.3	9.6	2.9	0.86	-0.45
Probability and Statistics	4	8.4	9.4	3.4	0.89	-0.29
Computational Tools	4	11.4	10.2	3.6	1.12	0.33
Ethics and Professional Practice	4	11.1	10.2	3.5	1.09	0.26
Engineering Economics	4	9.1	9.8	3.4	0.93	-0.21
Statics	7	7.9	9.2	2.9	0.86	-0.45
Dynamics	4	8.0	9.5	3.6	0.84	-0.42
Mechanics of Materials	7	8.5	8.9	2.4	0.96	-0.17
Materials	4	9.2	9.2	3.3	1.00	0.00
Fluid Mechanics	4	9.5	9.5	3.5	1.00	0.00
Hydraulics and Hydrologic Systems	8	8.0	9.2	2.3	0.87	-0.52
Structural Analysis	6	8.1	8.6	2.5	0.94	-0.20
Structural Design	6	7.3	8.7	2.5	0.84	-0.56
Geotechnical Engineering	9	8.4	8.9	2.0	0.94	-0.25
Transportation Engineering	8	10.3	8.8	2.1	1.17	0.71
Environmental Engineering	6	8.3	8.5	2.5	0.98	-0.08
Construction	4	12.4	9.6	3.6	1.29	0.78
Surveying	4	8.4	8.3	3.5	1.01	0.03

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Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	20
No. Examinees Passing	0	17
Percent Examinees Passing	0%	85%

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	4	8.1	10.6	3.0	0.76	-0.83
Probability and Statistics	3	6.1	12.7	3.2	0.48	-2.06
Ethics and Professional Practice	5	9.0	11.9	3.2	0.76	-0.91
Engineering Economics	4	7.3	11.8	3.7	0.62	-1.22
Materials Science	3	6.3	11.5	3.2	0.55	-1.63
Environmental Science and Chemistry	11	6.9	10.0	2.2	0.69	-1.41
Risk Assessment	5	7.6	10.1	2.7	0.75	-0.93
Fluid Mechanics	9	8.4	9.4	1.3	0.89	-0.77
Thermodynamics	3	9.2	10.5	4.2	0.88	-0.31
Water Resources	10	8.4	9.5	1.6	0.88	-0.69
Water and Wastewater	14	9.2	9.8	1.4	0.94	-0.43
Air Quality	10	7.1	10.1	2.6	0.70	-1.15
Solid and Hazardous Waste	10	6.9	10.3	2.3	0.67	-1.48
Groundwater and Soils	9	9.2	10.1	2.7	0.91	-0.33

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	33
No. Examinees Passing	1	23
Percent Examinees Passing	100%	70%

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	11	15.0	10.2	3.0	1.47	1.60
Probability and Statistics	4	15.0	10.6	3.6	1.42	1.22
Ethics and Professional Practice	3	7.5	11.9	3.7	0.63	-1.19
Engineering Economics	3	8.8	11.1	3.9	0.79	-0.59
Properties of Electrical Materials	4	5.5	9.1	3.3	0.60	-1.09
Engineering Sciences	6	9.1	10.7	3.0	0.85	-0.53
Circuit Analysis (DC and AC Steady State)	10	8.5	9.7	2.4	0.88	-0.50
Linear Systems	5	8.8	9.3	2.9	0.95	-0.17
Signal Processing	5	9.2	9.2	1.7	1.00	0.00
Electronics	7	6.7	9.2	1.9	0.73	-1.32
Power	8	10.2	9.5	2.4	1.07	0.29
Electromagnetics	5	8.8	8.7	2.9	1.01	0.03
Control Systems	6	8.6	8.6	2.0	1.00	0.00
Communications	5	7.1	9.7	3.1	0.73	-0.84
Computer Networks	3	6.9	11.3	3.8	0.61	-1.16
Digital Systems	7	8.7	9.8	2.5	0.89	-0.44
Computer Systems	4	15.0	10.4	4.4	1.44	1.05
Software Development	4	9.8	11.0	3.8	0.89	-0.32

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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	5	643
No. Examinees Passing	4	406
Percent Examinees Passing	80%	63%

Uncertainty Range for Scaled Score ⁴ ± 0.45
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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	10.9	9.4	2.4	1.16	0.63
Probability and Statistics	4	11.2	9.7	3.5	1.15	0.43
Ethics and Professional Practice	3	10.6	11.8	4.0	0.90	-0.30
Engineering Economics	3	9.6	10.0	4.2	0.96	-0.10
Properties of Electrical Materials	4	10.1	9.6	3.2	1.05	0.16
Engineering Sciences	6	10.7	9.7	3.3	1.10	0.30
Circuit Analysis (DC and AC Steady State)	10	8.6	9.2	2.4	0.93	-0.25
Linear Systems	5	8.5	8.9	3.2	0.96	-0.13
Signal Processing	5	8.7	8.9	2.9	0.98	-0.07
Electronics	7	8.1	9.1	2.4	0.89	-0.42
Power	8	9.9	9.2	2.2	1.08	0.32
Electromagnetics	5	8.8	9.2	3.0	0.96	-0.13
Control Systems	6	8.3	8.6	2.5	0.97	-0.12
Communications	5	7.8	8.5	2.8	0.92	-0.25
Computer Networks	3	12.3	9.1	4.1	1.35	0.78
Digital Systems	7	10.0	8.9	2.5	1.12	0.44
Computer Systems	4	9.9	8.3	3.8	1.19	0.42
Software Development	4	11.5	9.2	4.0	1.25	0.58

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Graduation Date: Examinees testing more than 12 months after graduation date

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

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

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	7	8.7	8.7	0.0	1.00	—
Probability and Statistics	4	6.9	6.9	0.0	1.00	—
Computational Tools	4	15.0	15.0	0.0	1.00	—
Ethics and Professional Practice	4	5.8	5.8	0.0	1.00	—
Engineering Economics	4	9.3	9.3	0.0	1.00	—
Statics	7	8.9	8.9	0.0	1.00	—
Dynamics	4	15.0	15.0	0.0	1.00	—
Mechanics of Materials	7	8.8	8.8	0.0	1.00	—
Materials	4	15.0	15.0	0.0	1.00	—
Fluid Mechanics	4	8.1	8.1	0.0	1.00	—
Hydraulics and Hydrologic Systems	8	8.8	8.8	0.0	1.00	—
Structural Analysis	6	7.0	7.0	0.0	1.00	—
Structural Design	6	9.2	9.2	0.0	1.00	—
Geotechnical Engineering	9	9.0	9.0	0.0	1.00	—
Transportation Engineering	8	7.6	7.6	0.0	1.00	—
Environmental Engineering	6	15.0	15.0	0.0	1.00	—
Construction	4	15.0	15.0	0.0	1.00	—
Surveying	4	0.0	0.0	0.0	—	—

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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	1,009
No. Examinees Passing	4	767
Percent Examinees Passing	100%	76%

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	12.2	10.3	3.0	1.18	0.63
Probability and Statistics	4	11.5	9.7	3.4	1.19	0.53
Computational Tools	3	12.0	11.2	3.9	1.07	0.21
Ethics and Professional Practice	3	9.2	11.6	3.9	0.79	-0.62
Engineering Economics	3	12.1	10.4	4.2	1.16	0.40
Electricity and Magnetism	3	12.0	9.8	4.1	1.22	0.54
Statics	8	13.3	9.8	2.4	1.36	1.46
Dynamics, Kinematics, and Vibrations	9	12.2	9.6	2.1	1.27	1.24
Mechanics of Materials	8	11.5	9.6	2.2	1.20	0.86
Material Properties and Processing	8	11.2	9.6	2.2	1.17	0.73
Fluid Mechanics	9	11.1	9.7	2.2	1.14	0.64
Thermodynamics	13	11.0	9.2	1.5	1.20	1.20
Heat Transfer	9	10.8	9.5	2.4	1.14	0.54
Measurements, Instrumentation, and Controls	5	7.8	8.7	3.4	0.90	-0.26
Mechanical Design and Analysis	9	9.7	8.8	2.6	1.10	0.35

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	10
No. Examinees Passing	1	7
Percent Examinees Passing	100%	70%

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 and Advanced Engineering Mathematics	12	8.6	8.9	1.2	0.97	-0.25
Probability and Statistics	6	8.2	9.9	2.9	0.83	-0.59
Chemistry	7	8.6	9.3	2.3	0.92	-0.30
Instrumentation and Data Acquisition	4	15.0	11.1	3.3	1.35	1.18
Ethics and Professional Practice	3	15.0	13.8	2.4	1.09	0.50
Safety, Health, and Environment	4	15.0	12.2	3.6	1.23	0.78
Engineering Economics	7	7.1	10.4	2.7	0.68	-1.22
Statics	8	8.1	9.4	1.7	0.86	-0.76
Dynamics	7	15.0	9.5	4.5	1.58	1.22
Strength of Materials	8	10.9	8.7	3.3	1.25	0.67
Materials Science	6	15.0	10.3	4.2	1.46	1.12
Fluid Mechanics and Dynamics of Liquids	8	15.0	9.6	4.0	1.56	1.35
Fluid Mechanics and Dynamics of Gases	4	15.0	9.4	5.2	1.60	1.08
Electricity, Power, and Magnetism	7	15.0	8.8	3.8	1.70	1.63
Heat, Mass, and Energy Transfer	9	10.6	8.5	3.2	1.25	0.66

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- 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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