



Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01 – Dec 31, 2020
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:	Environmental

No. Examinees Taking¹ 67%
 Institution 1
 ABET Comparator² 3
 Percent Examined 0%

Uncertainty Range for Scaled Score⁴
 ± 1.00

Number	Institution Average	ABET Comparator	ABET Comparator	Ratio	Scaled	Scaled
Mathematics	5	6.5	9.4	4.0	0.69	-0.73
Probability and Statistics	4	6.8	10.8	2.9	0.81	-0.69
Ethics and Professional Practice	5	15.0	13.2	2.6	1.14	0.69
Engineering Economics	5	6.0	5.2	4.1	0.66	-1.41
Fundamental Principles	7	7.3	8.8	1.5	0.83	-1.00
Environmental Chemistry	7	5.3	3.7	2.1	0.68	-1.33
Health Hazards and Risk Assessment	4	6.3	12.1	4.1	0.52	-1.41
Fluid Mechanics and Hydraulics	12	6.9	3.7	2.0	0.71	-1.40
Thermodynamics	3	4.8	9.6	4.2	0.50	-1.14
Surface Water Resources and Hydrology	9	3.7	12.9	3.0	0.67	-1.40
Groundwater, Soils, and Sediments	8	5.2	9.6	3.1	0.54	-1.42
Water and Wastewater	12	3.6	12.1	2.2	0.73	-1.14
Air Quality and Control	8	6.7	9.5	2.1	0.71	-1.33
Solid and Hazardous Waste	7	3.7	3.2	1.9	0.72	-1.22
Energy and Environment	4	8.2	11.0	2.9	0.75	-0.97

- 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.
- 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, Lexington	
Major:	Agricultural	FE Examination:	Other Disciplines

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	40
No. Examinees Passing	1	26
Percent Examinees Passing		100%

65%

Uncertainty Range for Scaled Score ⁴
 ± 1.00

ABET Comparator Average Performance	ABET Comparator Standard	Ratio Score ⁴	Scaled Score ⁴	Institution Average Performance	Number of Exam Questions
8.5	8.5	2.0	1.00	0.00	8
8.9	9.3	2.5	0.96	-0.16	6
6.2	9.0	2.5	0.69	-1.12	5
8.2	10.1	2.9	0.81	-0.66	4
15.0	10.4	3.3	1.44	1.39	5
8.2	9.3	2.2	0.88	-0.50	6
10.3	9.4	2.4	1.10	0.38	6
7.7	9.0	2.2	0.86	-0.59	9
8.2	9.1	1.4	0.90	-0.64	9
8.4	8.9	1.9	0.94	-0.42	9
8.0	8.8	1.7	0.91	-0.47	6
11.8	9.8	1.7	1.27	1.47	12
8.7	8.9	2.9	0.98	-0.07	6
8.2	8.7	1.4	0.94	-0.26	9

random access to the
 ABET commission noted.
 NCEES publication entitled
 ensure/educator/resources/

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Using the FE as an Outcomes Assessment Tool at <http://ncees.org/fea>

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

3,700
2,587
69%

1,400 Examinees Taking
No. Examinees Passing
Percent Examinees Passing

Institution	ABET Comparator ²
15	2,754
	11
	73%

Range for
Scaled
Score⁴
± 0.26

Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
8	9.4	9.5	2.5	0.99	-0.04
4	10.1	10.5	3.7	0.96	-0.11
5	9.8	9.9	3.1	0.99	-0.03
8	9.9	9.2	2.4	1.08	0.29
4	9.4	9.5	3.5	0.99	-0.03
7	9.5	9.1	2.3	1.04	0.17
5	9.9	9.3	2.8	1.06	0.21
6	10.3	9.7	2.8	1.06	0.21
6	10.2	9.4	2.4	1.09	0.33
10	9.7	9.3	1.9	1.04	0.21
10	8.6	8.9	1.7	0.97	-0.18
10	9.3	9.1	1.9	1.02	0.11
9	9.8	9.3	2.1	1.05	0.24
8	10.2	9.2	2.5	1.11	0.40

Mathematics and Statistics
Ethics and Professional Practice
Engineering Economics
Statics
Dynamics
Mechanics of Materials
Materials
Fluid Mechanics
Surveying
Water Resources and Environmental Engineering
Structural Engineering
Geotechnical Engineering
Transportation Engineering
Construction Engineering

They were flagged as a random guesser.
 Examinees from programs accredited by the ABET commission noted.
 a 0–15 scale.
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 Assessment Tool at <http://ncees.org/licensure/educator-resources/>.

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USE

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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	44
No. Examinees Passing	100%	66%

Uncertainty Range for Scaled Score⁴
 ± 1.00

ABET Comparator	ABET	Number	Institution	ABET Comparator	
15.0	9.3	2.6	1.61	2.19	
15.0	10.0	3.3	1.50	1.52	
15.0	10.8	3.8	1.39	1.11	
4	7.8	8.4	2.6	0.93	-0.23
11	11.5	8.6	1.8	1.34	1.61
5	10.9	8.7	3.5	1.25	0.63
5	9.7	9.0	3.1	1.08	0.23
7	9.0	9.0	2.7	1.00	0.00
8	10.1	8.5	1.8	1.19	0.89
4	15.0	9.1	3.1	1.65	1.90
6	9.7	9.1	1.8	1.07	0.33
5	15.0	9.1	3.4	1.65	1.74
4	10.7	10.1	2.2	1.06	0.27
8	11.4	10.3	2.3	1.11	0.48
5	15.0	10.5	2.4	1.43	1.88
4	15.0	12.5	3.5	1.20	0.71

Mathematics	11
Probability and Statistics	4
Ethics and Professional Practice	4
Engineering Fundamentals	-
Properties of Electrical Materials	-
Circuit Analysis (DC and AC Steady State)	-
Linear Systems	-
Signal Processing	-
Electronics	-
Power Systems	-
Electromagnetics	-
Control Systems	-
Communications	-
Computer Networks	-
Digital Systems	-
Computer Systems	-
Software Engineering	-

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purposes. See the NCEES publication entitled at <http://ncees.org/licensure/educator-resources/>.

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	10	2,655
No. Examinees Passing	10	2,000
Percent Examinees Passing	100%	75%

**Uncertainty
 Range for
 Scaled
 Score ⁴**
 ± 0.32

ABET Comparator	Ratio	Scaled Score ⁴	Scaled Score ⁴
9.9	2.8	1.16	0.57
9.6	3.2	1.04	0.13
11.0	3.7	0.90	-0.30
9.9	3.6	1.04	0.11
9.9	3.1	1.09	0.29
9.5	2.3	1.29	1.22
9.4	2.0	1.21	1.00
9.3	2.0	1.16	0.75
9.4	2.3	1.10	0.39
9.3	2.0	1.18	0.85
9.3	1.8	1.15	0.78
9.8	2.6	1.10	0.38
9.4	3.1	1.07	0.23
9.3	2.2	1.09	0.36

	Number of Examinees	Institution Average	ABET Comparator
Mathematics	6	11.5	
Probability and Statistics	4	10.0	
Ethics and Professional Practice	4	9.9	
Engineering Economics	4	10.3	
Electricity and Magnetism	5	10.8	
Statics	9	12.3	
Dynamics, Kinematics, and Vibrations	10	11.4	
Mechanics of Materials	9	10.8	
Material Properties and Processing	7	10.3	
Fluid Mechanics	10	11.0	
Thermodynamics	10	10.7	
Heat Transfer	7	10.8	
Measurements, Instrumentation, and Controls	5	10.1	
Mechanical Design and Analysis	10	10.1	

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