



**Examination:**

Fundamentals of Engineering (FE)

**Report title:** Subject Matter Report by Major and Exam  
**Exams administered:** Jul 01 – Dec 31, 2021  
**Examinees included:** First-Time Examinees from EAC/ABET-A  
**Graduation Date:** Examinees testing more than 12 months

Accredited Engineering Programs  
 after graduation date

Kentucky, Lexington
Environmental

Name of Institution:	University of
Major:	Agricultural FE Examination

Institution	ABET Comparator <sup>2</sup>
1	3
1	3
100%	100%

Uncertainty  
 Range for  
 Scaled  
 Score<sup>4</sup>  
 ± 1.00

Institution	ABET Comparator <sup>2</sup>	ABET Comparator Standard Deviation	Ratio Score <sup>4</sup>	Scaled Score <sup>4</sup>
10.2	11.7	2.4	0.87	-0.63
7.1	10.8	3.2	0.66	-1.16
9.2	13.1	2.7	0.70	-1.44
8.2	10.8	3.0	0.76	-0.87
10.7	9.6	0.8	1.11	1.38
8.5	9.1	0.8	0.93	-0.75
9.8	8.6	0.9	1.14	1.33
10.3	9.9	0.4	1.04	1.00
7.0	9.1	4.2	0.77	-0.50
9.0	9.9	0.8	0.91	-1.13
7.1	9.5	2.0	0.75	-1.20
8.8	8.8	0.5	1.00	0.00
7.1	8.8	1.3	0.81	-1.31
7.0	8.6	1.4	0.81	-1.14
0.0	7.7	6.1	0.00	-1.26

No. Examinees Taking<sup>1</sup>  
 No. Examinees Passing  
 Percent Examinees Passing

Subject	Number of Examinees
Mathematics	5
Probability and Statistics	4
Ethics and Professional Practice	5
Engineering Economics	5
Fundamental Principles	7
Environmental Chemistry	7
Health Hazards and Risk Assessment	4
Fluid Mechanics and Hydraulics	12
Thermodynamics	3
Surface Water Resources and Hydrology	9
Groundwater, Soils, and Sediments	8
Water and Wastewater	12
Air Quality and Control	8
Solid and Hazardous Waste	7
Energy and Environment	4

as a random guesser.  
 commission noted.  
 publication entitled  
 on/outcomes-assessment/.

- 0 examinees have been removed from this data because they were flagged
- Comparator includes all examinees from programs accredited by the ABET
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education>

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**Examination:**

Fundamentals of Engineering (FE)

**Report title:**  
**Exams administered:**  
**Examinees included:**  
**Graduation Date:**

Subject Matter Report by Major and Exam  
 Jul 01 – Dec 31, 2021  
 First-Time Examinees from EAC/ABET-A  
 Examinees testing more than 12 months

Accredited Engineering Programs  
 after graduation date

State of Kentucky, Lexington
Major: Mechanical

Name of Institution:	University of
Major: Agricultural	FE Examinees

Institution	ABET Comparator <sup>2</sup>	No. Examinees Passing		Percent Examinees Passing	
		1	3	1	3
		1	3	100%	100%

**Uncertainty Range for Scaled Score<sup>4</sup>**  
 ± 1.00

Score	Number of Exam	Institution Average	ABET Comparator Average	ABET Comparator	Ratio	Scaled	Standard Deviation	Score
-0.33		Mathematics		6	8.7	9.0	0.9	0.97
-0.50		Probability and Statistics		4	9.3	10.8	3.0	0.86
-0.54		Ethics and Professional Practice		4	7.5	9.6	3.9	0.78
-0.89		Engineering Economics		4	8.9	11.3	2.7	0.79
-1.10		Electricity and Magnetism		5	7.9	11.1	2.9	0.71
-1.42		Statics		9	10.9	13.6	1.9	0.80
-0.70		Dynamics, Kinematics, and Vibrations		10	8.6	10.7	3.0	0.80
0.70		Mechanics of Materials		9	15.0	12.7	3.3	1.18
0.64		Material Properties and Processing		7	10.4	8.6	2.8	1.21
-1.00		Fluid Mechanics		10	9.1	10.3	1.2	0.88
-0.94		Thermodynamics		10	7.9	9.5	1.7	0.83
1.37		Heat Transfer		7	15.0	11.3	2.7	1.33
0.90		Measurements, Instrumentation, and Controls		5	11.2	6.8	4.9	1.65
-0.10		Mechanical Design and Analysis		10	9.4	9.5	1.0	0.99

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**Examination:**

Fundamentals of Engineering (FE)

**Report title:**

Subject Matter Report by Major and Examination

**Exams administered:**

Jul 01 – Dec 31, 2021

**Examinees included:**

First-Time Examinees from EAC/ABET-A

**Graduation Date:**

Examinees testing more than 12 months

Examination

Accredited Engineering Programs  
after graduation date

Institution:	University of Kentucky, Lexington
Major:	Chemical

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

Institution	ABET Comparator <sup>2</sup>
2	230
1	155
50%	67%

Uncertainty Range for Scaled Score<sup>4</sup>  
± 0.71

Performance Index	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>	Number of Examinees	Number of Questions
12.0	12.0	10.0	3.4	1.20	0.59	6	6
11.7	11.7	10.2	3.6	1.15	0.42	4	4
8.6	8.6	9.9	3.5	0.87	-0.37	4	4
12.0	12.0	9.5	3.5	1.26	0.71	4	4
10.3	10.3	9.6	2.9	1.07	0.24	7	7
13.2	13.2	9.5	2.5	1.39	1.48	8	8
10.1	10.1	9.3	2.3	1.09	0.35	8	8
7.6	7.6	9.0	2.4	0.84	-0.58	10	10
8	8	9.2	2.8	0.95	-0.18		
8	8	7.7	2.4	0.84	-0.63		
3	3	9.7	4.0	0.95	-0.13		
7	7	8.0	2.9	0.87	-0.41		
Economics	4	11.4	9.9	3.9	1.15	0.38	
Process Design	7	9.1	9.5	2.8	0.96	-0.14	
Process Control	4	7.5	9.4	3.9	0.80	-0.49	
Safety, Health, and Environment	5	10.1	9.2	3.7	1.10	0.24	
Statistics and Professional Practice	3	11.4	11.2	4.8	1.02	0.04	
Mathematics						6	6
Probability and Statistics						4	4
Engineering Sciences						4	4
Materials Science						4	4
Chemistry and Biology						7	7
Fluid Mechanics/Dynamics						8	8
Thermodynamics						8	8
Material/Energy Balances						10	10
Heat Transfer							
Mass Transfer and Separation							
Solids Handling							
Chemical Reaction Engineering							

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Accredited Engineering Programs  
after graduation date

University of Kentucky, Lexington
Major: Civil

**Examination:**

Fundamentals of Engineering (FE)

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**Graduation Date:** Examinees testing more than 12 months

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

Institution	ABET Comparator <sup>2</sup>
5	842
3	450
60%	53%

No. Examinees Taking <sup>1</sup>  
 No. Examinees Passing  
 Percent Examinees Passing

Uncertainty  
Range for  
Scaled  
Score <sup>4</sup>  
±0.45

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>
8.0	8.8	2.1	0.91	-0.38
8.2	10.8	3.7	0.85	-0.43
9.5	9.0	3.1	1.06	0.16
10.0	8.9	2.5	1.14	0.48
10.5	9.2	3.6	1.14	0.36
9.0	8.7	2.4	1.03	0.13
7.9	9.1	2.7	0.87	-0.44
8.8	8.2	2.3	1.07	0.21
11.3	9.0	2.5	1.26	0.92
10.3	8.7	1.8	1.22	1.03
9.2	8.5	1.9	1.08	0.37
10.5	8.7	2.0	1.22	0.95
11.3	8.7	2.1	1.30	1.24
8.5	8.7	2.3	0.92	-0.09

Subject	Number of Exam Questions
Mathematics and Statistics	8
Ethics and Professional Practices	4
Engineering Economics	5
Statics	8
Dynamics	4
Mechanics of Materials	7
Materials	5
Fluid Mechanics	3
Surveying	6
Water Resources and Environmental Engineering	10
Structural Engineering	10
Geotechnical Engineering	10
Transportation Engineering	9
Construction Engineering	8

Information provided is for informational purposes only. It is not intended to be used for any purpose other than that intended by NCEES and should not be used for accreditation purposes. For more information, visit <https://ncees.org/education/you/degrees-assessment/>.

- 0 examinees have been removed from this table because they were flagged as errors.
- Comparator includes all examinees from programs accredited by the ABET committee.
- Performance Index is based on a 0-16 scale.
- These scores are calculated for programs only using the FE exam Outcomes Assessment.

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**Examination:**

Fundamentals of Engineering (FE)

**Report title:**

Subject Matter Report by Major and Examination

**Exams administered:**

Jul 01 – Dec 31, 2021

**Examinees included:**

First-Time Examinees from EAC/ABET-A

**Graduation Date:**

Examinees testing more than 12 months

Examination

Accredited Engineering Programs  
after graduation date

Kentucky, Lexington
Electrical and Computer

Name of Institution:	University of Kentucky	
Major:	Computer	FE Examination:

Institution	ABET Comparator <sup>2</sup>
1	15
0	11
0%	73%

No. Examinees Taking <sup>1</sup>  
No. Examinees Passing  
Percent Examinees Passing

Uncertainty  
Range for  
Scaled  
Score <sup>4</sup>  
± 1.00

Institution Average	ABET Comparator	ABET Comparator	Ratio	Scaled Score <sup>4</sup>	Scaled Score <sup>4</sup>	Number of Examinees
Questions	Performance Index <sup>3</sup>	Performance Index <sup>3</sup>	Standard Deviation			
11	8.9	9.5	2.3	0.94	-0.26	
4	15.0	11.3	3.5	1.33	1.06	
5	6.0	10.9	4.1	0.55	-1.20	
4	5.2	9.4	3.8	0.55	-1.11	
11	7.0	9.1	3.6	0.77	-0.58	
5	6.7	9.6	2.5	0.70	-1.16	
5	6.6	8.8	4.4	0.75	-0.50	
7	9.5	9.7	2.6	0.98	-0.08	
8	8.2	9.0	2.2	0.91	-0.36	
4	6.7	10.6	2.9	0.63	-1.34	
6	7.3	8.7	1.5	0.84	-0.93	
5	8.4	9.9	2.9	0.85	-0.52	
4	7.2	10.5	3.8	0.69	-0.87	
8	8.5	10.0	2.8	0.85	-0.54	
5	7.6	11.6	3.1	0.66	-1.29	
4	15.0	12.1	3.2	1.24	0.91	

Mathematics	Number of Examinees
Probability and Statistics	
Ethics and Professional Practice	
Engineering Economics	
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	

Examinees were removed from this data because they were flagged as a random guesser.  
Examinees from programs accredited by the ABET commission noted.  
0-15 scale.  
For assessment purposes. See the NCEES publication entitled  
Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

- 0 examinees have been removed.
- Comparator includes all examinees.
- Performance index is based on a 0-15 scale.
- These scores are made available using the FE as an Outcomes Assessment.

USE

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**Graduation Date:** Examinees testing more than 12 months

Accredited Engineering Programs  
 after graduation date

Kentucky, Lexington
Electrical and Computer

Name of Institution:	University of Kentucky	
Major:	Electrical	FE Examination:

Institution	ABET Comparator <sup>2</sup>
1	520
1	325
100%	63%

No. Examinees Taking <sup>1</sup>  
 No. Examinees Passing  
 Percent Examinees Passing

Uncertainty  
 Range for  
 Scaled  
 Score <sup>4</sup>  
 ± 1.00

Number of Examinees	Institution Average Performance Index	ABET Comparator Average Performance Index	ABET Comparator Standard	Ratio Score <sup>4</sup>	Scaled Score <sup>4</sup>	Number of Examinees
11	10.8	9.3	2.3	1.16	0.65	Mathematics
4	15.0	9.8	3.5	1.53	1.40	Probability and Statistics
4	15.0	11.4	3.8	1.32	0.95	Ethics and Professional Practice
5	15.0	9.9	3.4	1.52	1.50	Engineering Economics
4	15.0	9.5	3.5	1.58	1.57	Properties of Electrical Materials
11	15.0	9.0	2.2	1.57	2.73	Circuit Analysis (DC and AC Steady State)
5	15.0	8.9	3.0	1.69	2.03	Linear Systems
5	10.4	8.8	3.0	1.18	0.53	Signal Processing
7	11.5	8.7	2.4	1.32	1.17	Electronics
8	11.0	9.0	2.0	1.24	1.05	Power Systems
4	15.0	8.7	3.6	1.72	1.75	Electromagnetics
5	11.3	9.0	2.7	1.27	0.80	Control Systems
5	15.0	8.9	2.6	1.69	2.35	Communications
4	15.0	9.5	3.4	1.58	1.52	Computer Networks
8	15.0	8.9	2.3	1.69	2.65	Digital Systems
5	15.0	9.7	3.4	1.72	1.95	Computer Systems
4	15.0	9.8	4.1	1.53	1.27	Software Engineering

flagged as a random guesser.  
 ABET commission noted.

- 0 examinees have been removed from this data because they were
- Comparator includes all examinees from programs accredited by the
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NCEES publication entitled  
<https://ncees.org/education/outcomes-assessment/>

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**Examination:**

Fundamentals of Engineering (FE)

**Report title:**

Subject Matter Report by Major and Exam

**Exams administered:**

Jul 01 – Dec 31, 2021

**Examinees included:**

First-Time Examinees from EAC/ABET-A

**Graduation Date:**

Examinees testing more than 12 months

mination

accredited Engineering Programs  
after graduation date

Institution:	<b>Mechanical</b>
--------------	-------------------

Name of Institution:	University of Kentucky, Lexington	
Major:	<b>Mechanical</b>	FE Examinees

Institution	ABET Comparator <sup>2</sup>
5	1,101
5	782
100%	71%

No. Examinees Taking <sup>1</sup>  
No. Examinees Passing  
Percent Examinees Passing

Uncertainty

Uncertainty  
Range for  
Score <sup>4</sup>  
+ 0.45

Institution Number of Exam Questions	ABET		Comparator Standard Deviation	Ratio Score <sup>4</sup>	Scale Score <sup>4</sup>	Z-Score	Standard Deviation
	Average Performance Index <sup>3</sup>	Comparator Average Performance Index					
6	10.2	9.9	2.9	1.03	0.10		
4	8.8	8.8	3.4	0.88	-0.16		
4	12.5	11.3	3.7	1.11	0.32		
4	11.9	10.8	3.7	1.07	0.19		
Magnetism		5	9.0	9.4	2.9	0.96	-0.14
		8	10.2	8.6	2.3	1.07	0.30
Dynamics, and Vibrations		10	9.3	9.4	2.1	0.99	-0.05
Materials		8	10.4	8.2	2.0	1.13	0.60
Metals and Processing		7	8.5	9.5	2.4	0.89	-0.42
Nonmetals		10	8.6	8.4	2.0	1.01	0.05
Composites		10	9.3	9.0	2.0	1.03	0.15
Thermodynamics		7	8.8	8.4	2.6	1.05	0.18
Fluid Mechanics		5	9.5	8.7	3.1	1.09	0.26
Heat Transfer		10	10.6	9.0	2.3	1.17	0.65

<b>Mathematics</b>
Probability and Statistics
<b>Ethics and Professional Practice</b>
Engineering Economics
<b>Electricity and Electronics</b>
Statics
<b>Dynamics, Kinematics, and Vibrations</b>
Mechanics of Materials
<b>Material Properties</b>
Fluid Mechanics
<b>Thermodynamics</b>
Heat Transfer
<b>Measurements and Instrumentation</b>
Mechanical Design and Analysis

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.  
Z-scores are made available for assessment purposes. See the NCEES publication entitled  
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1. @ exam
2. Comp
3. Perform
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Accredited Engineering Programs  
after graduation date

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Fundamentals of Engineering (FE)

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**Exams administered:** Jul 01 – Dec 31, 2021  
**Examinees included:** First-Time Examinees from EAC/ABET-A  
**Graduation Date:** Examinees testing more than 12 months

Kentucky, Lexington
Environment: Environmental

Name of Institution:	University of
Major:	Mining/Mineral
	FE Examinee

Institution	ABET Comparator <sup>2</sup>	1	0
		1	0
		0%	0%

No. Examinees Taking <sup>1</sup>  
 No. Examinees Passing  
 Percent Examinees Passing

Uncertainty  
Range for  
Scaled  
Score <sup>4</sup>  
± 1.00

	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>
	5	4.8	4.8	0.0	1.00	—
	4	6.0	6.0	0.0	1.00	—
	5	7.4	7.4	0.0	1.00	—
	5	0.0	0.0	0.0	—	—
	7	5.8	5.8	0.0	1.00	—
	7	5.3	5.3	0.0	1.00	—
ment	4	0.0	0.0	0.0	—	—
	12	5.1	5.1	0.0	1.00	—
	3	7.9	7.9	0.0	1.00	—
Surface Water Resources and Hydrology	0	0.0	0.0	0.0	—	—
Groundwater, Soils, and Sediments			8	0.0	0.0	0.0
Water and Wastewater			12	0.0	0.0	0.0
Air Quality and Control			8	0.0	0.0	0.0
Solid and Hazardous Waste			7	0.0	0.0	0.0
Energy and Environment			4	0.0	0.0	0.0

Mathematics  
 Probability and Statistics  
 Ethics and Professional Practice  
 Engineering Economics  
 Fundamental Principles  
 Environmental Chemistry  
 Health Hazards and Risk Assessment  
 Fluid Mechanics and Hydraulics  
 Thermodynamics

1. 0 examinees have been removed from this data because they were flagged as a random guesser.

2. Comparator includes all examinees from programs accredited by the ABET commission noted.

3. Performance Index is based on 0.0–10 scale.

4. These scores are made available for assessment purposes. See the NCEES publication titled

Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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Accredited Engineering Programs  
after graduation date

**Examination:**

Fundamentals of Engineering (FE)

**Report title:** Subject Matter Report by Major and Exam  
**Exams administered:** Jul 01 – Dec 31, 2021  
**Examinees included:** First-Time Examinees from EAC/ABET-A  
**Graduation Date:** Examinees testing more than 12 months

Kentucky, Lexington
Other Disciplines

Name of Institution:	University of K
Major:	Mining/Mineral
	FE Examination

Institution	ABET Comparator <sup>2</sup>
2	7
1	3
50%	43%

No. Examinees Taking <sup>1</sup>  
 No. Examinees Passing  
 Percent Examinees Passing

Uncertainty  
Range for  
Scaled  
Score <sup>4</sup>  
± 0.71

Performance	Institution Average	ABET Comparator Average	ABET Comparator Standard Deviation	Ratio	Scaled	Score	Standard Deviation	Number of Examinees
8	7.7	8.0	1.7	0.96	-0.18	Mathematics		
6	7.9	8.6	1.0	0.92	-0.70	Probability and Statistics		
5	3.3	7.6	5.7	0.43	-0.75	Chemistry		
4	8.6	7.9	1.2	1.09	0.58	Instrumentation and Controls		
5	11.5	10.9	3.6	1.06	0.17	Engineering Ethics and Societal Impacts		
6	11.6	11.4	3.2	1.02	0.06	Safety, Health, and Environment		
6	10.0	10.0	3.5	1.00	0.00	Engineering Economics		
9	7.4	8.1	2.3	0.91	-0.30	Statics		
9	6.9	9.1	3.0	0.76	-0.73	Dynamics		
9	8.1	8.2	1.3	0.99	-0.08	Strength of Materials		
6	8.3	8.7	2.9	0.95	-0.14	Materials		
6	8.5	8.2	2.2	1.12	0.12	Thermodynamics and Heat Transfer		
6	7.3	9.7	2.5	0.75	-0.96	Basic Electrical Engineering		
9	7.7	8.1	4.5	0.95	-0.09	Thermodynamics and Heat		

... have been removed from this data because they were flagged as a random guesser.  
 ... includes all examinees from programs accredited by the ABET commission noted.  
 ... score is based on a 0–15 scale.

1. 0 examinees have...
2. Comparator Inclu...
3. Performance Indu...
4. These examinees...

... Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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