

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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

	Institution	ABET Comparator²
No. Examinees Taking ¹	2	25
No. Examinees Passing	2	20
Percent Examinees Passing	100%	80%

Uncertainty Range for Scaled Score ⁴ ± 0.71
--

	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	7.7	9.3	3.7	0.83	-0.43
Probability and Statistics	3	11.6	8.4	4.6	1.38	0.70
Ethics and Professional Practice	5	8.2	10.1	3.0	0.81	-0.63
Engineering Economics	4	9.8	9.0	2.6	1.09	0.31
Materials Science	3	8.0	8.8	3.9	0.91	-0.21
Environmental Science and Chemistry	11	10.1	9.0	1.7	1.12	0.65
Risk Assessment	5	7.8	9.9	3.0	0.79	-0.70
Fluid Mechanics	9	9.5	9.3	1.9	1.02	0.11
Thermodynamics	3	11.7	12.0	3.5	0.98	-0.09
Water Resources	10	10.2	10.1	2.2	1.01	0.05
Water and Wastewater	14	7.7	8.7	1.3	0.89	-0.77
Air Quality	10	8.5	8.8	1.3	0.97	-0.23
Solid and Hazardous Waste	10	8.4	9.1	1.2	0.92	-0.58
Groundwater and Soils	9	9.2	9.0	1.6	1.02	0.13

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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 ²
No. Examinees Taking ¹	3	30
No. Examinees Passing	3	28
Percent Examinees Passing	100%	93%

Uncertainty Range for Scaled Score ⁴ ± 0.58
--

	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	9.5	9.6	1.8	0.99	-0.06
Probability and Statistics	6	12.1	10.3	2.4	1.17	0.75
Chemistry	7	11.8	10.4	2.7	1.13	0.52
Instrumentation and Data Acquisition	4	12.0	10.9	2.9	1.10	0.38
Ethics and Professional Practice	3	15.0	13.4	2.9	1.12	0.55
Safety, Health, and Environment	4	10.8	9.9	2.8	1.09	0.32
Engineering Economics	7	13.2	9.9	2.4	1.33	1.38
Statics	8	9.6	10.0	1.9	0.96	-0.21
Dynamics	7	10.0	10.2	2.3	0.98	-0.09
Strength of Materials	8	9.5	10.8	2.3	0.88	-0.57
Materials Science	6	10.6	9.8	1.8	1.08	0.44
Fluid Mechanics and Dynamics of Liquids	8	13.6	10.3	2.7	1.32	1.22
Fluid Mechanics and Dynamics of Gases	4	10.9	11.0	3.3	0.99	-0.03
Electricity, Power, and Magnetism	7	13.5	10.6	2.5	1.27	1.16
Heat, Mass, and Energy Transfer	9	10.8	10.1	1.4	1.07	0.50

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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:	Chemical	FE Examination:	Chemical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	747
No. Examinees Passing	1	578
Percent Examinees Passing	100%	77%

Uncertainty Range for Scaled Score ⁴ ± 1.00
--

	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	7.4	10.7	3.1	0.69	-1.06
Probability and Statistics	4	6.5	10.7	3.5	0.61	-1.20
Engineering Sciences	4	10.2	10.4	3.4	0.98	-0.06
Computational Tools	4	15.0	10.6	3.4	1.42	1.29
Materials Science	4	9.7	10.4	3.3	0.93	-0.21
Chemistry	8	10.0	10.7	3.1	0.93	-0.23
Fluid Mechanics/Dynamics	8	8.9	9.9	2.3	0.90	-0.43
Thermodynamics	8	9.8	9.5	2.0	1.03	0.15
Material/Energy Balances	8	10.7	9.5	2.3	1.13	0.52
Heat Transfer	8	8.6	10.0	2.5	0.86	-0.56
Mass Transfer and Separation	8	9.8	9.4	2.0	1.04	0.20
Chemical Reaction Engineering	8	8.8	9.3	2.2	0.95	-0.23
Process Design and Economics	8	9.5	9.5	2.8	1.00	0.00
Process Control	5	9.2	9.4	3.0	0.98	-0.07
Safety, Health, and Environment	5	15.0	9.4	3.4	1.60	1.65
Ethics and Professional Practice	2	15.0	11.1	5.4	1.35	0.72

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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:	Civil	FE Examination:	Civil

	Institution	ABET Comparator²
No. Examinees Taking ¹	38	4,377
No. Examinees Passing	29	3,084
Percent Examinees Passing	76%	70%

Uncertainty Range for Scaled Score ⁴ ± 0.16
--

	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	10.3	9.9	2.9	1.04	0.14
Probability and Statistics	4	11.1	10.3	3.4	1.08	0.24
Computational Tools	4	10.3	10.2	3.6	1.01	0.03
Ethics and Professional Practice	4	11.1	10.9	3.7	1.02	0.05
Engineering Economics	4	10.6	10.3	3.7	1.03	0.08
Statics	7	9.5	9.7	2.7	0.98	-0.07
Dynamics	4	10.1	10.1	3.3	1.00	0.00
Mechanics of Materials	7	8.7	9.2	2.2	0.95	-0.23
Materials	4	9.9	9.4	3.1	1.05	0.16
Fluid Mechanics	4	11.3	10.5	3.6	1.08	0.22
Hydraulics and Hydrologic Systems	8	9.6	9.1	2.1	1.05	0.24
Structural Analysis	6	8.9	9.1	2.5	0.98	-0.08
Structural Design	6	7.9	8.9	2.5	0.89	-0.40
Geotechnical Engineering	9	9.4	9.1	2.0	1.03	0.15
Transportation Engineering	8	9.4	9.1	2.3	1.03	0.13
Environmental Engineering	6	9.6	9.3	2.7	1.03	0.11
Construction	4	9.8	9.9	3.7	0.99	-0.03
Surveying	4	10.0	8.7	3.7	1.15	0.35

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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:	Civil	FE Examination:	Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	104
No. Examinees Passing	1	73
Percent Examinees Passing	100%	70%

Uncertainty Range for Scaled Score ⁴ ± 1.00
--

	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	8.0	10.0	3.7	0.80	-0.54
Probability and Statistics	3	15.0	10.3	3.1	1.46	1.52
Ethics and Professional Practice	5	15.0	11.0	3.3	1.36	1.21
Engineering Economics	4	8.5	10.3	3.5	0.83	-0.51
Materials Science	3	8.7	10.3	3.6	0.84	-0.44
Environmental Science and Chemistry	11	8.7	9.5	2.4	0.92	-0.33
Risk Assessment	5	15.0	10.4	3.2	1.44	1.44
Fluid Mechanics	9	10.8	9.3	1.7	1.16	0.88
Thermodynamics	3	15.0	11.0	3.6	1.36	1.11
Water Resources	10	15.0	9.9	2.5	1.52	2.04
Water and Wastewater	14	8.7	9.3	1.6	0.94	-0.38
Air Quality	10	8.8	9.3	2.1	0.95	-0.24
Solid and Hazardous Waste	10	9.3	9.2	2.0	1.01	0.05
Groundwater and Soils	9	9.3	9.1	2.5	1.02	0.08

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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:	Electrical	FE Examination:	Electrical and Computer

	Institution	ABET Comparator²
No. Examinees Taking ¹	3	1,019
No. Examinees Passing	3	768
Percent Examinees Passing	100%	75%

Uncertainty Range for Scaled Score ⁴ ± 0.58
--

	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	9.3	10.0	2.5	0.93	-0.28
Probability and Statistics	4	12.6	10.1	3.4	1.25	0.74
Ethics and Professional Practice	3	15.0	11.8	4.0	1.27	0.80
Engineering Economics	3	10.6	9.5	4.2	1.12	0.26
Properties of Electrical Materials	4	9.2	9.9	3.4	0.93	-0.21
Engineering Sciences	6	11.4	11.0	3.3	1.04	0.12
Circuit Analysis (DC and AC Steady State)	10	12.0	9.6	2.3	1.25	1.04
Linear Systems	5	10.5	9.4	2.8	1.12	0.39
Signal Processing	5	9.3	9.3	2.9	1.00	0.00
Electronics	7	11.2	9.4	2.2	1.19	0.82
Power	8	10.5	9.5	2.1	1.11	0.48
Electromagnetics	5	11.8	10.0	2.9	1.18	0.62
Control Systems	6	8.6	9.3	2.6	0.92	-0.27
Communications	5	10.3	9.3	2.7	1.11	0.37
Computer Networks	3	8.8	9.6	4.2	0.92	-0.19
Digital Systems	7	10.9	9.1	2.4	1.20	0.75
Computer Systems	4	10.9	9.1	3.4	1.20	0.53
Software Development	4	15.0	10.9	4.1	1.38	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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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: Mechanical	FE Examination: Mechanical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	10	3,105
No. Examinees Passing	9	2,564
Percent Examinees Passing	90%	83%

Uncertainty Range for Scaled Score ⁴ ± 0.32
--

	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	9.3	10.6	2.9	0.88	-0.45
Probability and Statistics	4	9.3	10.0	3.2	0.93	-0.22
Computational Tools	3	12.7	11.1	4.1	1.14	0.39
Ethics and Professional Practice	3	11.7	11.6	3.9	1.01	0.03
Engineering Economics	3	10.3	10.7	4.0	0.96	-0.10
Electricity and Magnetism	3	11.6	11.1	3.6	1.05	0.14
Statics	8	9.0	9.8	2.4	0.92	-0.33
Dynamics, Kinematics, and Vibrations	9	9.0	9.7	2.1	0.93	-0.33
Mechanics of Materials	8	9.0	9.6	2.2	0.94	-0.27
Material Properties and Processing	8	10.1	9.7	2.1	1.04	0.19
Fluid Mechanics	9	9.4	9.9	2.2	0.95	-0.23
Thermodynamics	13	9.2	9.4	1.5	0.98	-0.13
Heat Transfer	9	10.1	9.6	2.2	1.05	0.23
Measurements, Instrumentation, and Controls	5	9.5	9.2	3.1	1.03	0.10
Mechanical Design and Analysis	9	9.0	9.1	2.3	0.99	-0.04

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
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: Mining/Mineral	FE Examination: Other Disciplines

	Institution	ABET Comparator ²
No. Examinees Taking ¹	9	77
No. Examinees Passing	6	59
Percent Examinees Passing	67%	77%

Uncertainty Range for Scaled Score ⁴ ± 0.33
--

	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	9.1	9.0	1.9	1.01	0.05
Probability and Statistics	6	9.3	9.3	2.1	1.00	0.00
Chemistry	7	10.0	9.6	2.2	1.04	0.18
Instrumentation and Data Acquisition	4	8.8	9.1	2.7	0.97	-0.11
Ethics and Professional Practice	3	14.2	12.0	4.0	1.18	0.55
Safety, Health, and Environment	4	10.8	10.3	3.4	1.05	0.15
Engineering Economics	7	9.8	10.1	2.5	0.97	-0.12
Statics	8	9.0	9.0	1.7	1.00	0.00
Dynamics	7	9.5	9.0	2.3	1.06	0.22
Strength of Materials	8	9.0	9.1	1.7	0.99	-0.06
Materials Science	6	9.2	9.2	1.9	1.00	0.00
Fluid Mechanics and Dynamics of Liquids	8	9.8	9.5	1.9	1.03	0.16
Fluid Mechanics and Dynamics of Gases	4	9.0	9.0	3.2	1.00	0.00
Electricity, Power, and Magnetism	7	8.4	9.0	1.9	0.93	-0.32
Heat, Mass, and Energy Transfer	9	8.2	9.0	1.7	0.91	-0.47

- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.