

Report title: Subject Matter Report by Major and Examination

Exams administered: Jul 01 - Dec 31, 2021

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 Comparator ² |
|-----------------------------------|-------------|------------------------------|
| No. Examinees Taking ¹ | 1 | 5 |
| No. Examinees Passing | 1 | 2 |
| Percent Examinees Passing | 100% | 40% |

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 | 5 | 15.0 | 11.2 | 3.2 | 1.34 | 1.19 |
| Probability and Statistics | 4 | 15.0 | 10.7 | 3.6 | 1.40 | 1.19 |
| Ethics and Professional Practice | 5 | 9.4 | 9.7 | 2.9 | 0.97 | -0.10 |
| Engineering Economics | 5 | 15.0 | 10.2 | 3.9 | 1.47 | 1.23 |
| Fundmental Principles | 7 | 10.7 | 9.1 | 1.1 | 1.18 | 1.45 |
| Environmental Chemistry | 7 | 10.4 | 10.0 | 2.7 | 1.04 | 0.15 |
| Health Hazards and Risk Assessment | 4 | 11.1 | 10.8 | 2.3 | 1.03 | 0.13 |
| Fluid Mechanics and Hydraulics | 12 | 12.0 | 9.1 | 2.5 | 1.32 | 1.16 |
| Thermodynamics | 3 | 15.0 | 10.9 | 3.4 | 1.38 | 1.21 |
| Surface Water Resources and Hydrology | 9 | 11.3 | 9.2 | 2.0 | 1.23 | 1.05 |
| Groundwater, Soils, and Sediments | 8 | 11.5 | 9.2 | 1.2 | 1.25 | 1.92 |
| Water and Wastewater | 12 | 11.6 | 8.3 | 1.9 | 1.40 | 1.74 |
| Air Quality and Control | 8 | 9.7 | 8.3 | 1.4 | 1.17 | 1.00 |
| Solid and Hazardous Waste | 7 | 10.0 | 9.3 | 0.8 | 1.08 | 0.87 |
| Energy and Environment | 4 | 9.7 | 7.7 | 1.1 | 1.26 | 1.82 |

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

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

| | Institution | ABET Comparator ² | |
|-----------------------------------|-------------|------------------------------|--|
| No. Examinees Taking ¹ | 2 | 21 | |
| No. Examinees Passing | 1 | 15 | |
| Percent Examinees Passing | 50% | 71% | |

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 | 8 | 9.7 | 9.2 | 2.3 | 1.05 | 0.22 |
| Probability and Statistics | 6 | 8.4 | 9.2 | 2.5 | 0.91 | -0.32 |
| Chemistry | 5 | 9.2 | 10.1 | 3.3 | 0.91 | -0.27 |
| Instrumentation and Controls | 4 | 9.0 | 11.6 | 3.1 | 0.78 | -0.84 |
| Engineering Ethics and Societal Impacts | 5 | 11.9 | 12.1 | 3.4 | 0.98 | -0.06 |
| Safety, Health, and Environment | 6 | 9.5 | 10.8 | 3.1 | 0.88 | -0.42 |
| Engineering Economics | 6 | 9.9 | 10.0 | 2.4 | 0.99 | -0.04 |
| Statics | 9 | 8.7 | 9.7 | 1.9 | 0.90 | -0.53 |
| Dynamics | 9 | 9.7 | 9.6 | 2.1 | 1.01 | 0.05 |
| Strength of Materials | 9 | 8.2 | 9.4 | 1.9 | 0.87 | -0.63 |
| Materials | 6 | 7.1 | 9.3 | 2.7 | 0.76 | -0.81 |
| Fluid Mechanics | 12 | 9.3 | 9.2 | 1.6 | 1.01 | 0.06 |
| Basic Electrical Engineering | 6 | 8.3 | 8.7 | 3.5 | 0.95 | -0.11 |
| Thermodynamics and Heat Transfer | 9 | 7.8 | 8.8 | 1.9 | 0.89 | -0.53 |

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Subject Matter Report by Major and Examination Report title:

Exams administered: Jul 01 - Dec 31, 2021

No. Examinees Taking ¹ No. Examinees Passing Percent Examinees Passing

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 |
|-------------|------------------------------|
| 3 | 304 |
| 3 | 224 |
| 100% | 74% |

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 | 6 | 13.0 | 9.9 | 3.1 | 1.31 | 1.00 |
| Probability and Statistics | 4 | 10.4 | 10.0 | 3.6 | 1.04 | 0.11 |
| Engineering Sciences | 4 | 11.5 | 9.7 | 3.5 | 1.19 | 0.51 |
| Materials Science | 4 | 10.4 | 10.2 | 3.4 | 1.02 | 0.06 |
| Chemistry and Biology | 7 | 10.1 | 10.0 | 3.0 | 1.01 | 0.03 |
| Fluid Mechanics/Dynamics | 8 | 8.7 | 9.3 | 2.4 | 0.94 | -0.25 |
| Thermodynamics | 8 | 10.0 | 9.2 | 1.8 | 1.09 | 0.44 |
| Material/Energy Balances | 10 | 10.6 | 8.9 | 2.3 | 1.19 | 0.74 |
| Heat Transfer | 8 | 11.3 | 9.5 | 2.4 | 1.19 | 0.75 |
| Mass Transfer and Separation | 8 | 10.7 | 9.5 | 2.3 | 1.13 | 0.52 |
| Solids Handling | 3 | 10.0 | 10.1 | 3.6 | 0.99 | -0.03 |
| Chemical Reaction Engineering | 7 | 10.7 | 9.7 | 2.4 | 1.10 | 0.42 |
| Economics | 4 | 12.6 | 10.0 | 3.8 | 1.26 | 0.68 |
| Process Design | 7 | 12.3 | 9.7 | 2.6 | 1.27 | 1.00 |
| Process Control | 4 | 11.4 | 9.5 | 3.5 | 1.20 | 0.54 |
| Safety, Health, and Environment | 5 | 12.2 | 9.7 | 3.4 | 1.26 | 0.74 |
| Ethics and Professional Practice | 3 | 12.6 | 11.8 | 4.2 | 1.07 | 0.19 |

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

| | Institution | ABET Comparator ² | |
|-----------------------------------|-------------|------------------------------|--|
| No. Examinees Taking ¹ | 21 | 3,608 | |
| No. Examinees Passing | 17 | 2,227 | |
| Percent Examinees Passing | 81% | 62% | |

Uncertainty Range for Scaled Score 4 ±0.22

| | 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 Statistics | 8 | 9.9 | 9.3 | 2.4 | 1.06 | 0.25 |
| Ethics and Professional Practice | 4 | 12.3 | 10.6 | 3.6 | 1.16 | 0.47 |
| Engineering Economics | 5 | 9.4 | 9.5 | 3.2 | 0.99 | -0.03 |
| Statics | 8 | 9.4 | 9.1 | 2.4 | 1.03 | 0.13 |
| Dynamics | 4 | 10.5 | 9.6 | 3.5 | 1.09 | 0.26 |
| Mechanics of Materials | 7 | 8.9 | 8.9 | 2.4 | 1.00 | 0.00 |
| Materials | 5 | 10.7 | 9.1 | 2.7 | 1.18 | 0.59 |
| Fluid Mechanics | 6 | 11.3 | 9.4 | 2.8 | 1.20 | 0.68 |
| Surveying | 6 | 9.7 | 9.1 | 2.4 | 1.07 | 0.25 |
| Water Resources and Environmental Engineering | 10 | 9.4 | 9.0 | 2.0 | 1.04 | 0.20 |
| Structural Engineering | 10 | 8.1 | 8.6 | 1.8 | 0.94 | -0.28 |
| Geotechnical Engineering | 10 | 9.5 | 8.9 | 2.0 | 1.07 | 0.30 |
| Transportation Engineering | 9 | 10.0 | 9.0 | 2.1 | 1.11 | 0.48 |
| Construction Engineering | 8 | 10.1 | 9.1 | 2.5 | 1.11 | 0.40 |

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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 | 2 | 746 |
| No. Examinees Passing | 2 | 561 |
| Percent Examinees Passing | 100% | 75% |

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 | 11 | 8.8 | 9.6 | 2.4 | 0.92 | -0.33 |
| Probability and Statistics | 4 | 9.9 | 10.4 | 3.6 | 0.95 | -0.14 |
| Ethics and Professional Practice | 4 | 15.0 | 11.3 | 3.7 | 1.33 | 1.00 |
| Engineering Economics | 5 | 8.8 | 10.0 | 3.0 | 0.88 | -0.40 |
| Properties of Electrical Materials | 4 | 8.8 | 10.0 | 3.4 | 0.88 | -0.35 |
| Circuit Analysis (DC and AC Steady State) | 11 | 9.5 | 9.5 | 2.3 | 1.00 | 0.00 |
| Linear Systems | 5 | 8.0 | 9.3 | 2.9 | 0.86 | -0.45 |
| Signal Processing | 5 | 7.2 | 9.2 | 2.9 | 0.78 | -0.69 |
| Electronics | 7 | 9.6 | 9.3 | 2.2 | 1.03 | 0.14 |
| Power Systems | 8 | 8.7 | 9.2 | 2.1 | 0.95 | -0.24 |
| Electromagnetics | 4 | 6.9 | 9.5 | 3.4 | 0.73 | -0.76 |
| Control Systems | 6 | 8.8 | 9.5 | 2.6 | 0.93 | -0.27 |
| Communications | 5 | 8.7 | 9.2 | 2.7 | 0.95 | -0.19 |
| Computer Networks | 4 | 9.7 | 9.4 | 3.2 | 1.03 | 0.09 |
| Digital Systems | 8 | 8.6 | 9.5 | 2.3 | 0.91 | -0.39 |
| Computer Systems | 5 | 7.7 | 9.3 | 3.2 | 0.83 | -0.50 |
| Software Engineering | 4 | 12.2 | 10.0 | 3.7 | 1.22 | 0.59 |

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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 | 15 | 2,423 | |
| No. Examinees Passing | 13 | 1,721 | |
| Percent Examinees Passing | 87% | 71% | |

Uncertainty Range for Scaled Score 4 ±0.26

| | | | | | | 10.20 |
|---|--------------------------------|---|---|---|-----------------------------|------------------------------|
| | 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 | 10.9 | 9.8 | 2.9 | 1.11 | 0.38 |
| Probability and Statistics | 4 | 10.3 | 9.7 | 3.3 | 1.06 | 0.18 |
| Ethics and Professional Practice | 4 | 9.7 | 10.9 | 3.7 | 0.89 | -0.32 |
| Engineering Economics | 4 | 11.3 | 10.2 | 3.6 | 1.11 | 0.31 |
| Electricity and Magnetism | 5 | 9.8 | 9.4 | 3.0 | 1.04 | 0.13 |
| Statics | 9 | 9.8 | 9.4 | 2.2 | 1.04 | 0.18 |
| Dynamics, Kinematics, and Vibrations | 10 | 9.7 | 9.3 | 2.1 | 1.04 | 0.19 |
| Mechanics of Materials | 9 | 10.5 | 9.1 | 2.0 | 1.15 | 0.70 |
| Material Properties and Processing | 7 | 10.2 | 9.4 | 2.4 | 1.09 | 0.33 |
| Fluid Mechanics | 10 | 9.5 | 9.2 | 2.0 | 1.03 | 0.15 |
| Thermodynamics | 10 | 9.2 | 9.0 | 1.8 | 1.02 | 0.11 |
| Heat Transfer | 7 | 9.0 | 9.5 | 2.5 | 0.95 | -0.20 |
| Measurements, Instrumentation, and Controls | 5 | 9.5 | 9.1 | 2.8 | 1.04 | 0.14 |
| Mechanical Design and Analysis | 10 | 9.7 | 9.1 | 2.1 | 1.07 | 0.29 |

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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 ² |
|-----------------------------------|-------------|------------------------------|
| No. Examinees Taking ¹ | 1 | 15 |
| No. Examinees Passing | 0 | 5 |
| Percent Examinees Passing | 0% | 33% |

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 | 7.1 | 7.4 | 1.1 | 0.96 | -0.27 |
| Probability and Statistics | 6 | 7.8 | 8.2 | 1.3 | 0.95 | -0.31 |
| Chemistry | 5 | 7.2 | 8.2 | 1.2 | 0.88 | -0.83 |
| Instrumentation and Controls | 4 | 15.0 | 10.1 | 4.3 | 1.49 | 1.14 |
| Engineering Ethics and Societal Impacts | 5 | 5.7 | 9.2 | 3.2 | 0.62 | -1.09 |
| Safety, Health, and Environment | 6 | 7.2 | 9.6 | 3.2 | 0.75 | -0.75 |
| Engineering Economics | 6 | 8.0 | 8.3 | 1.7 | 0.96 | -0.18 |
| Statics | 9 | 10.6 | 8.6 | 1.3 | 1.23 | 1.54 |
| Dynamics | 9 | 0.0 | 7.3 | 2.5 | 0.00 | -2.92 |
| Strength of Materials | 9 | 10.0 | 7.9 | 1.4 | 1.27 | 1.50 |
| Materials | 6 | 8.7 | 10.0 | 3.5 | 0.87 | -0.37 |
| Fluid Mechanics | 12 | 8.7 | 8.0 | 1.8 | 1.09 | 0.39 |
| Basic Electrical Engineering | 6 | 5.5 | 7.5 | 2.5 | 0.73 | -0.80 |
| Thermodynamics and Heat Transfer | 9 | 8.8 | 8.0 | 2.4 | 1.10 | 0.33 |

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