

**NCEES**  
**Fundamentals of Engineering Examination**  
 ABET - Accredited Programs

Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Agricultural**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **FE - Other Disciplines**

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	2	93	43		
Examinees Passing	1	82	40		
Examinees Passing %	50	88	93		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	82	78	2.4	78
Engineering Probability & Statistics	8	63	50	1.5	49
Chemistry	11	64	73	1.6	75
Computers	8	69	83	1.0	81
Ethics & Business Practices	8	69	85	1.0	85
Engineering Economics	10	75	75	1.7	77
Engineering Mechanics (Statics)	8	63	73	1.4	74
Engineering Mechanics (Dynamics)	5	30	48	1.3	46
Strength of Materials	8	50	58	1.6	59
Material Properties	8	50	59	1.3	60
Fluid Mechanics	8	56	65	1.5	71
Electricity & Magnetism	11	73	68	1.9	73
Thermodynamics	8	56	69	1.8	72

**PM Subject**

Advanced Engineering Mathematics	6	83	72	1.1	73
Engineering Probability & Statistics PM	5	90	74	1.1	73
Biology	3	83	82	0.6	84
Engineering Economics PM	6	83	75	1.4	78
Application of Engineering Mechanics	8	63	67	1.6	68
Engineering of Materials	7	71	69	1.5	68
Fluids	9	50	62	1.9	67
Electricity & Magnetism PM	7	43	49	1.4	49
Thermodynamics & Heat Transfer	9	33	47	1.8	45

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Chemical**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **FE - Chemical**

	<b>*Institution</b>	<b>National</b>		<b>Carnegie Comparator</b>
Examinees Taking	16	1,470		383
Examinees Passing	16	1,251		320
Examinees Passing %	100	85		84
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>
				<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	79	79	2.7	78
Engineering Probability & Statistics	8	53	54	1.7	53
Chemistry	11	90	85	1.4	86
Computers	8	77	77	1.2	75
Ethics & Business Practices	8	84	85	1.2	85
Engineering Economics	10	65	71	1.9	72
Engineering Mechanics (Statics)	8	65	58	1.6	58
Engineering Mechanics (Dynamics)	5	26	42	1.3	40
Strength of Materials	8	33	38	1.6	39
Material Properties	8	54	56	1.6	57
Fluid Mechanics	8	63	66	1.5	64
Electricity & Magnetism	11	53	61	2.3	60
Thermodynamics	8	75	76	1.6	75

**PM Subject**

Chemistry PM	6	75	70	1.3	69
Material-Energy Balances	9	70	68	1.9	69
Chemical Engineering Thermodynamics	6	60	65	1.5	65
Fluid Dynamics	6	67	61	1.5	60
Heat Transfer	6	81	80	1.2	78
Mass Transfer	6	80	69	1.3	67
Chemical Reaction Engineering	6	75	69	1.4	67
Process Design & Economic Optimization	6	70	72	1.2	72
Computer Usage in Chemical Engineering	3	87	75	0.8	75
Process control	3	71	68	0.9	68
Safety & Health & Environmental	3	65	61	1.0	60

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: <b>71</b>	Institution: <b>University of Kentucky, Lexington</b>
Major: <b>Civil</b>	School Code: <b>7101</b>
	PM Exam: <b>FE - Civil</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	29	6,331	1,813
Examinees Passing	22	4,423	1,309
Examinees Passing %	76	70	72

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Mathematics	19	76	75	3.0	74
Engineering Probability & Statistics	8	42	48	1.7	48
Chemistry	11	72	68	1.9	68
Computers	8	73	71	1.3	71
Ethics & Business Practices	8	90	85	1.2	85
Engineering Economics	10	73	72	2.0	73
Engineering Mechanics (Statics)	8	71	70	1.6	70
Engineering Mechanics (Dynamics)	5	34	43	1.3	42
Strength of Materials	8	50	56	1.7	57
Material Properties	8	52	54	1.4	54
Fluid Mechanics	8	68	62	1.6	63
Electricity & Magnetism	11	50	54	2.2	53
Thermodynamics	8	59	58	1.9	58

**PM Subject**

Surveying	7	66	63	1.3	64
Hydraulics & Hydrologic Systems	7	50	56	1.6	57
Soil Mechanics & Foundations	9	65	60	1.8	61
Environmental Engineering	7	60	59	1.3	60
Transportation	7	68	71	1.4	73
Structural Analysis	6	41	42	1.3	42
Structural Design	6	34	50	1.4	50
Construction Management	6	62	68	1.3	70
Materials	5	68	60	1.1	62

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: <b>71</b>	Institution: <b>University of Kentucky, Lexington</b>
Major: <b>Electrical</b>	School Code: <b>7101</b>
	PM Exam: <b>FE - Electrical</b>

	*Institution	National	Carnegie Comparator		
Examinees Taking	8	1,275	256		
Examinees Passing	6	990	200		
Examinees Passing %	75	78	78		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	81	79	2.8	79
Engineering Probability & Statistics	8	59	52	1.7	52
Chemistry	11	73	69	1.9	69
Computers	8	88	86	1.1	87
Ethics & Business Practices	8	86	85	1.2	85
Engineering Economics	10	66	66	2.2	64
Engineering Mechanics (Statics)	8	44	57	1.6	56
Engineering Mechanics (Dynamics)	5	28	40	1.3	39
Strength of Materials	8	39	37	1.5	37
Material Properties	8	53	50	1.5	48
Fluid Mechanics	8	44	46	1.5	46
Electricity & Magnetism	11	89	81	1.7	81
Thermodynamics	8	63	61	1.8	61

**PM Subject**

Circuits	10	58	63	1.7	64
Power	8	50	60	1.7	61
Electromagnetics	4	63	58	0.9	59
Control Systems	6	54	60	1.4	63
Communications	5	45	51	1.2	51
Signal Processing	5	58	53	1.2	54
Electronics	9	56	57	1.9	58
Digital Systems	7	55	65	1.7	64
Computer Systems	6	50	47	1.4	46

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: <b>71</b>	Institution: <b>University of Kentucky, Lexington</b>
Major: <b>Engineering Mechanics</b>	School Code: <b>7101</b>
	PM Exam: <b>FE - Civil</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	1	1	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Mathematics	19	74	74	0.0	74
Engineering Probability & Statistics	8	38	38	0.0	38
Chemistry	11	45	45	0.0	45
Computers	8	63	63	0.0	63
Ethics & Business Practices	8	100	100	0.0	100
Engineering Economics	10	80	80	0.0	80
Engineering Mechanics (Statics)	8	63	63	0.0	63
Engineering Mechanics (Dynamics)	5	60	60	0.0	60
Strength of Materials	8	13	13	0.0	13
Material Properties	8	38	38	0.0	38
Fluid Mechanics	8	75	75	0.0	75
Electricity & Magnetism	11	36	36	0.0	36
Thermodynamics	8	75	75	0.0	75

**PM Subject**

Surveying	7	43	43	0.0	43
Hydraulics & Hydrologic Systems	7	43	43	0.0	43
Soil Mechanics & Foundations	9	44	44	0.0	44
Environmental Engineering	7	29	29	0.0	29
Transportation	7	71	71	0.0	71
Structural Analysis	6	67	67	0.0	67
Structural Design	6	50	50	0.0	50
Construction Management	6	67	67	0.0	67
Materials	5	60	60	0.0	60

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: <b>71</b>	Institution: <b>University of Kentucky, Lexington</b>
Major: <b>Mechanical</b>	School Code: <b>7101</b>
	PM Exam: <b>FE - Mechanical</b>

	*Institution	National	Carnegie Comparator		
Examinees Taking	47	4,796	1,292		
Examinees Passing	39	4,154	1,104		
Examinees Passing %	83	87	85		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	80	80	2.7	80
Engineering Probability & Statistics	8	51	53	1.7	52
Chemistry	11	69	73	1.8	72
Computers	8	81	79	1.2	79
Ethics & Business Practices	8	86	85	1.2	84
Engineering Economics	10	62	71	2.1	71
Engineering Mechanics (Statics)	8	73	72	1.5	72
Engineering Mechanics (Dynamics)	5	51	55	1.3	54
Strength of Materials	8	59	61	1.7	61
Material Properties	8	58	62	1.4	61
Fluid Mechanics	8	64	67	1.6	65
Electricity & Magnetism	11	64	68	2.2	67
Thermodynamics	8	70	70	1.8	70

**PM Subject**

Mechanical Design & Analysis	9	67	69	1.7	69
Kinematics & Dynamics & Vibrations	9	54	58	1.7	58
Materials & Processing	6	52	55	1.4	55
Measurements & Instrumentation & Controls	6	66	65	1.4	65
Thermodynamics & Energy Conversion Processes	9	47	53	1.8	53
Fluid Mechanics & Fluid Machinery	9	56	64	1.8	64
Heat Transfer	6	60	62	1.2	61
Refrigeration & HVAC	6	48	52	1.4	52

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Mechanical**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **FE - Other Disciplines**

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	5	820	125		
Examinees Passing	3	652	96		
Examinees Passing %	60	80	77		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	65	79	2.9	78
Engineering Probability & Statistics	8	53	51	1.7	52
Chemistry	11	75	71	1.9	69
Computers	8	80	78	1.3	79
Ethics & Business Practices	8	90	84	1.2	86
Engineering Economics	10	80	73	2.1	75
Engineering Mechanics (Statics)	8	75	71	1.6	71
Engineering Mechanics (Dynamics)	5	40	53	1.4	50
Strength of Materials	8	45	59	1.7	57
Material Properties	8	73	60	1.5	59
Fluid Mechanics	8	68	65	1.6	63
Electricity & Magnetism	11	60	69	2.2	65
Thermodynamics	8	78	69	1.7	66

**PM Subject**

Advanced Engineering Mathematics	6	70	75	1.2	76
Engineering Probability & Statistics PM	5	80	75	1.0	77
Biology	3	87	75	0.8	71
Engineering Economics PM	6	70	71	1.2	70
Application of Engineering Mechanics	8	58	71	1.5	68
Engineering of Materials	7	60	69	1.4	69
Fluids	9	38	64	2.1	64
Electricity & Magnetism PM	7	43	52	1.4	49
Thermodynamics & Heat Transfer	9	42	47	1.8	48

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Currently Enrolled **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Mining/Mineral**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **FE - Other Disciplines**

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	15	123	72		
Examinees Passing	10	58	29		
Examinees Passing %	67	47	40		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	74	63	4.1	58
Engineering Probability & Statistics	8	50	39	1.7	40
Chemistry	11	61	62	2.0	61
Computers	8	78	69	1.5	66
Ethics & Business Practices	8	91	83	1.5	79
Engineering Economics	10	66	61	2.3	57
Engineering Mechanics (Statics)	8	66	59	1.6	58
Engineering Mechanics (Dynamics)	5	49	34	1.3	37
Strength of Materials	8	49	40	1.5	39
Material Properties	8	47	49	1.3	48
Fluid Mechanics	8	63	52	1.5	52
Electricity & Magnetism	11	68	52	2.2	51
Thermodynamics	8	54	53	1.7	52

**PM Subject**

Advanced Engineering Mathematics	6	67	61	1.5	56
Engineering Probability & Statistics PM	5	77	66	1.1	64
Biology	3	73	60	0.8	59
Engineering Economics PM	6	64	63	1.5	59
Application of Engineering Mechanics	8	54	51	1.5	47
Engineering of Materials	7	65	56	1.7	51
Fluids	9	47	42	2.0	41
Electricity & Magnetism PM	7	48	39	1.4	38
Thermodynamics & Heat Transfer	9	48	37	1.8	38

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