

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

Graduates **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	12		9	
Examinees Passing	2	8		6	
Examinees Passing %	100	67		67	
	<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	84	68	3.3	68
Engineering Probability & Statistics	8	75	68	1.4	68
Chemistry	11	86	66	2.3	68
Computers	8	88	74	2.1	69
Ethics & Business Practices	8	88	76	1.3	75
Engineering Economics	10	70	60	2.5	53
Engineering Mechanics (Statics)	8	94	58	2.6	64
Engineering Mechanics (Dynamics)	5	70	58	1.6	53
Strength of Materials	8	63	56	1.4	56
Material Properties	8	44	42	1.2	39
Fluid Mechanics	8	75	63	1.9	64
Electricity & Magnetism	11	50	59	1.6	61
Thermodynamics	8	63	52	1.3	50

**PM Subject**

Advanced Engineering Mathematics	6	92	75	1.6	76
Engineering Probability & Statistics PM	5	80	72	1.2	78
Biology	3	100	75	1.0	74
Engineering Economics PM	6	92	78	1.4	74
Application of Engineering Mechanics	8	56	55	1.5	51
Engineering of Materials	7	36	40	1.1	40
Fluids	9	28	46	2.0	46
Electricity & Magnetism PM	7	36	40	1.5	44
Thermodynamics & Heat Transfer	9	61	51	1.9	52

\* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

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Graduates	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board Code:	<b>71</b>	Institution:	<b>University of Kentucky, Lexington</b>
Major	<b>Chemical</b>	School Code:	<b>7101</b>
		PM Exam	<b>FE - Chemical</b>

	*Institution	National	Carnegie Comparator		
Examinees Taking	2	204	53		
Examinees Passing	2	172	49		
Examinees Passing %	100	84	92		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	68	76	3.1	75
Engineering Probability & Statistics	8	63	67	1.7	67
Chemistry	11	82	85	1.5	86
Computers	8	88	79	1.4	83
Ethics & Business Practices	8	81	79	1.2	83
Engineering Economics	10	65	67	2.0	69
Engineering Mechanics (Statics)	8	31	44	2.0	51
Engineering Mechanics (Dynamics)	5	70	63	1.3	65
Strength of Materials	8	63	40	1.6	42
Material Properties	8	69	61	1.5	64
Fluid Mechanics	8	81	64	2.1	64
Electricity & Magnetism	11	68	57	2.5	56
Thermodynamics	8	56	64	1.7	61

**PM Subject**

Chemistry PM	6	67	77	1.2	80
Material-Energy Balances	9	78	71	1.8	75
Chemical Engineering Thermodynamics	6	33	61	1.5	58
Fluid Dynamics	6	50	52	1.7	53
Heat Transfer	6	58	74	1.2	73
Mass Transfer	6	42	60	1.5	59
Chemical Reaction Engineering	6	92	73	1.5	75
Process Design & Economic Optimization	6	83	74	1.2	74
Computer Usage in Chemical Engineering	3	67	66	0.9	69
Process control	3	50	61	0.9	62
Safety & Health & Environmental	3	33	55	1.0	56

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Graduates Subject Matter Report by Major and PM Examination		Institution: <b>University of Kentucky, Lexington</b>	
Board Code: <b>71</b>	Major: <b>Civil</b>	School Code: <b>7101</b>	PM Exam: <b>FE - Civil</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	6	1,316	328
Examinees Passing	5	596	160
Examinees Passing %	83	45	49

# 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	60	58	3.1	57
Engineering Probability & Statistics	8	54	53	1.7	56
Chemistry	11	61	53	2.0	54
Computers	8	67	62	1.6	62
Ethics & Business Practices	8	73	74	1.4	76
Engineering Economics	10	67	56	1.8	58
Engineering Mechanics (Statics)	8	48	43	1.9	42
Engineering Mechanics (Dynamics)	5	67	49	1.2	51
Strength of Materials	8	54	48	1.7	46
Material Properties	8	40	44	1.5	43
Fluid Mechanics	8	56	47	2.1	46
Electricity & Magnetism	11	41	36	2.2	37
Thermodynamics	8	29	33	1.6	33

**PM Subject**

Surveying	7	60	50	1.4	51
Hydraulics & Hydrologic Systems	7	52	52	1.4	50
Soil Mechanics & Foundations	9	63	51	1.6	52
Environmental Engineering	7	62	50	1.4	51
Transportation	7	55	42	1.4	43
Structural Analysis	6	39	39	1.3	39
Structural Design	6	61	54	1.3	53
Construction Management	6	53	57	1.3	59
Materials	5	77	53	1.1	54

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Graduates **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Civil**

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	1	500	106		
Examinees Passing	0	152	35		
Examinees Passing %	0	30	33		
	<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	68	62	3.1	63
Engineering Probability & Statistics	8	75	54	1.7	58
Chemistry	11	64	51	2.0	53
Computers	8	88	57	1.6	57
Ethics & Business Practices	8	75	73	1.5	75
Engineering Economics	10	50	54	1.9	58
Engineering Mechanics (Statics)	8	50	41	1.8	42
Engineering Mechanics (Dynamics)	5	20	45	1.2	44
Strength of Materials	8	50	47	1.7	51
Material Properties	8	25	43	1.5	42
Fluid Mechanics	8	50	43	2.0	43
Electricity & Magnetism	11	9	40	2.3	42
Thermodynamics	8	25	32	1.6	31

**PM Subject**

Advanced Engineering Mathematics	6	83	64	1.4	66
Engineering Probability & Statistics PM	5	40	55	1.1	57
Biology	3	67	53	0.8	51
Engineering Economics PM	6	67	60	1.3	62
Application of Engineering Mechanics	8	75	39	1.6	38
Engineering of Materials	7	14	39	1.3	38
Fluids	9	44	43	1.6	45
Electricity & Magnetism PM	7	43	32	1.4	35
Thermodynamics & Heat Transfer	9	33	36	1.5	37

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

Graduates **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Electrical**

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

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	5	790	209		
Examinees Passing	4	429	124		
Examinees Passing %	80	54	59		
	<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	67	69	3.4	69
Engineering Probability & Statistics	8	58	58	1.7	60
Chemistry	11	56	57	2.1	58
Computers	8	85	74	1.5	76
Ethics & Business Practices	8	78	75	1.5	76
Engineering Economics	10	66	57	2.0	59
Engineering Mechanics (Statics)	8	35	36	1.8	36
Engineering Mechanics (Dynamics)	5	60	51	1.3	50
Strength of Materials	8	48	34	1.4	33
Material Properties	8	65	45	1.6	46
Fluid Mechanics	8	45	30	1.8	30
Electricity & Magnetism	11	78	68	2.2	68
Thermodynamics	8	55	37	1.7	37

**PM Subject**

Circuits	10	48	48	2.3	49
Power	8	63	57	1.8	59
Electromagnetics	4	55	53	1.3	51
Control Systems	6	30	46	1.5	45
Communications	5	64	54	1.1	55
Signal Processing	5	24	28	1.3	27
Electronics	9	67	52	1.9	52
Digital Systems	7	83	61	1.7	61
Computer Systems	6	63	49	1.5	48

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

Graduates Subject Matter Report by Major and PM Examination		Institution: School Code: PM Exam		<b>University of Kentucky, Lexington</b> <b>7101</b> <b>FE - Mechanical</b>	
Board Code:	<b>71</b>				
Major	<b>Mechanical</b>				

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	3	781	217		
Examinees Passing	1	535	143		
Examinees Passing %	33	69	66		
	<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	61	71	3.4	69
Engineering Probability & Statistics	8	63	60	1.7	59
Chemistry	11	58	64	2.0	65
Computers	8	75	75	1.5	76
Ethics & Business Practices	8	71	79	1.3	80
Engineering Economics	10	63	61	2.0	61
Engineering Mechanics (Statics)	8	33	56	2.1	56
Engineering Mechanics (Dynamics)	5	53	70	1.3	71
Strength of Materials	8	38	55	2.0	54
Material Properties	8	46	58	1.5	59
Fluid Mechanics	8	29	56	2.3	54
Electricity & Magnetism	11	30	52	2.6	51
Thermodynamics	8	38	51	2.0	51

**PM Subject**

Mechanical Design & Analysis	9	48	67	1.8	67
Kinematics & Dynamics & Vibrations	9	59	55	1.8	55
Materials & Processing	6	39	67	1.4	66
Measurements & Instrumentation & Controls	6	50	50	1.3	50
Thermodynamics & Energy Conversion Processes	9	41	58	1.7	57
Fluid Mechanics & Fluid Machinery	9	44	61	1.7	60
Heat Transfer	6	56	66	1.4	66
Refrigeration & HVAC	6	39	50	1.4	50

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Graduates **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	3	480	106		
Examinees Passing	2	284	65		
Examinees Passing %	67	59	61		
	<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	84	69	3.4	67
Engineering Probability & Statistics	8	63	58	1.8	56
Chemistry	11	55	61	2.1	59
Computers	8	71	70	1.6	72
Ethics & Business Practices	8	88	78	1.4	80
Engineering Economics	10	57	58	2.1	58
Engineering Mechanics (Statics)	8	54	49	2.2	46
Engineering Mechanics (Dynamics)	5	73	58	1.4	61
Strength of Materials	8	83	53	1.8	51
Material Properties	8	58	55	1.5	56
Fluid Mechanics	8	63	53	2.3	51
Electricity & Magnetism	11	42	50	2.5	49
Thermodynamics	8	63	46	2.0	47

**PM Subject**

Advanced Engineering Mathematics	6	83	71	1.4	69
Engineering Probability & Statistics PM	5	67	60	1.1	61
Biology	3	56	59	0.9	59
Engineering Economics PM	6	67	66	1.4	64
Application of Engineering Mechanics	8	67	48	1.8	49
Engineering of Materials	7	43	46	1.5	47
Fluids	9	59	53	1.8	51
Electricity & Magnetism PM	7	33	43	1.5	42
Thermodynamics & Heat Transfer	9	33	49	1.7	49

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Graduates **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	6	19	12		
Examinees Passing	4	8	5		
Examinees Passing %	67	42	42		
	<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	66	61	2.8	60
Engineering Probability & Statistics	8	75	66	1.3	65
Chemistry	11	56	58	1.6	61
Computers	8	73	72	1.4	71
Ethics & Business Practices	8	73	80	1.2	78
Engineering Economics	10	78	71	1.5	72
Engineering Mechanics (Statics)	8	44	40	1.5	39
Engineering Mechanics (Dynamics)	5	63	46	1.2	53
Strength of Materials	8	38	39	1.2	42
Material Properties	8	48	44	1.5	47
Fluid Mechanics	8	63	61	1.7	58
Electricity & Magnetism	11	41	43	1.9	40
Thermodynamics	8	29	36	1.6	31

**PM Subject**

Advanced Engineering Mathematics	6	81	65	1.4	69
Engineering Probability & Statistics PM	5	60	58	0.8	58
Biology	3	72	67	0.9	69
Engineering Economics PM	6	81	69	1.3	65
Application of Engineering Mechanics	8	46	40	1.6	40
Engineering of Materials	7	40	41	1.2	44
Fluids	9	41	40	1.2	34
Electricity & Magnetism PM	7	40	32	1.0	32
Thermodynamics & Heat Transfer	9	43	39	1.0	38

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