

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

Graduate of	<b>Engineering</b>	
Subject Matter Report by Major and PM Examination		
Board:	Kentucky	Institution: University of Kentucky, Lexington
Board Code:	71	School Code: 7101
Major:	<b>Agricultural</b>	PM Exam: <b>FE-General</b>
	*Institution	National
		Carnegie Comparator

Examinees Taking	1	22	9
Examinees Passing	1	16	7
Examinees Passing %	100	73	78

	# 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	84	64	2.9	71
Engineering Probability and Statistics	8	88	48	1.5	51
Chemistry	11	64	55	2.1	59
Computers	8	88	72	1.8	75
Ethics and Business Practices	8	88	74	1.3	71
Engineering Economics	10	80	59	1.9	61
Engineering Mechanics (Statics)	8	50	47	1.8	50
Engineering Mechanics (Dynamics)	5	60	47	1.1	51
Strength of Materials	8	50	42	1.4	40
Material Properties	8	50	46	1.8	43
Fluid Mechanics	8	75	63	1.4	67
Electricity and Magnetism	11	82	52	2.1	55
Thermodynamics	8	75	54	1.7	53

**PM Subject**

Advanced Engineering Mathematics	6	83	75	0.9	74
Engineering Probability and Statistics	5	80	65	1.1	78
Biology	3	0	73	0.9	63
Engineering Economics	6	33	65	1.0	63
Application of Engineering Mechanics	8	62	50	1.3	58
Engineering of Materials	7	43	48	0.9	45
Fluids	9	67	56	2.1	58
Electricity and Magnetism	7	57	51	1.5	56
Thermodynamics and Heat Transfer	9	78	43	1.3	45

\* 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.

\*\* The standard deviation above is based on number of questions correct not percentage of questions correct.

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

Examinees Taking	1	218	62
Examinees Passing	1	177	52
Examinees Passing %	100	81	84

	# 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	70	3.2	71
Engineering Probability and Statistics	8	50	59	1.7	59
Chemistry	11	91	82	2.0	85
Computers	8	75	79	1.4	81
Ethics and Business Practices	8	100	79	1.3	80
Engineering Economics	10	100	66	2.4	70
Engineering Mechanics (Statics)	8	50	39	1.8	38
Engineering Mechanics (Dynamics)	5	100	48	1.4	49
Strength of Materials	8	62	37	1.5	35
Material Properties	8	62	48	1.9	47
Fluid Mechanics	8	100	61	1.9	61
Electricity and Magnetism	11	64	50	2.5	49
Thermodynamics	8	75	67	1.8	68

**PM Subject**

Chemistry	6	83	77	1.1	75
Material / Energy Balances	9	78	59	2.0	62
Chemical Engineering Thermodynamics	6	83	62	1.3	60
Fluid Dynamics	6	100	62	1.5	62
Heat Transfer	6	83	67	1.2	70
Mass Transfer	6	100	77	1.3	82
Chemical Reaction Engineering	6	83	64	1.5	66
Process Design and Economic Optimization	6	67	67	1.2	69
Computer Usage and Chemical Engineering	3	100	69	0.9	69
Process Control	3	100	46	0.9	44
Safety, Health, and Environmental	3	33	72	0.7	73

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

Examinees Taking	12	1,370	378
Examinees Passing	6	544	158
Examinees Passing %	50	40	42

	# 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	65	57	3.1	57
Engineering Probability and Statistics	8	52	47	1.6	47
Chemistry	11	52	47	2.2	49
Computers	8	71	66	1.7	68
Ethics and Business Practices	8	79	75	1.5	77
Engineering Economics	10	61	55	2.3	57
Engineering Mechanics (Statics)	8	56	44	1.9	45
Engineering Mechanics (Dynamics)	5	53	40	1.3	41
Strength of Materials	8	47	45	1.6	45
Material Properties	8	43	35	1.5	36
Fluid Mechanics	8	56	48	1.6	48
Electricity and Magnetism	11	41	33	2.1	33
Thermodynamics	8	51	38	1.5	40

**PM Subject**

Surveying	7	61	50	1.4	51
Hydraulics and Hydrologic Systems	7	63	55	1.5	56
Soil Mechanics and Foundations	9	62	50	1.8	50
Environmental Engineering	7	62	58	1.3	59
Transportation	7	62	61	1.5	63
Structural Analysis	6	42	39	1.1	39
Structural Design	6	64	48	1.4	49
Construction Management	6	57	54	1.4	56
Materials	5	63	57	1.2	56

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Civil</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	5	1,372	318
Examinees Passing	2	498	137
Examinees Passing %	40	36	43

	# 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	61	63	3.3	64
Engineering Probability and Statistics	8	42	49	1.6	50
Chemistry	11	60	49	2.3	51
Computers	8	80	66	1.8	69
Ethics and Business Practices	8	75	73	1.5	73
Engineering Economics	10	68	57	2.4	59
Engineering Mechanics (Statics)	8	38	45	2.0	48
Engineering Mechanics (Dynamics)	5	72	42	1.3	45
Strength of Materials	8	60	45	1.7	48
Material Properties	8	48	36	1.6	38
Fluid Mechanics	8	65	49	1.7	51
Electricity and Magnetism	11	36	39	2.4	41
Thermodynamics	8	48	42	1.6	42

**PM Subject**

Advanced Engineering Mathematics	6	70	71	1.3	74
Engineering Probability and Statistics	5	60	58	1.2	59
Biology	3	47	57	0.9	61
Engineering Economics	6	73	58	1.3	60
Application of Engineering Mechanics	8	52	47	1.6	48
Engineering of Materials	7	51	43	1.3	46
Fluids	9	44	44	1.9	47
Electricity and Magnetism	7	37	37	1.3	38
Thermodynamics and Heat Transfer	9	31	37	1.5	38

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Electrical</b>	PM Exam:	<b>FE-Electrical</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	5	873	221
Examinees Passing	3	474	128
Examinees Passing %	60	54	58

	# 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	49	67	3.3	69
Engineering Probability and Statistics	8	27	51	1.6	53
Chemistry	11	51	52	2.4	55
Computers	8	70	73	1.8	78
Ethics and Business Practices	8	78	75	1.4	77
Engineering Economics	10	56	57	2.4	58
Engineering Mechanics (Statics)	8	30	36	1.7	37
Engineering Mechanics (Dynamics)	5	28	40	1.3	42
Strength of Materials	8	20	31	1.5	32
Material Properties	8	35	32	1.5	34
Fluid Mechanics	8	38	38	1.5	39
Electricity and Magnetism	11	67	72	2.2	73
Thermodynamics	8	43	43	1.7	44

**PM Subject**

Circuits	10	44	54	2.1	56
Power	8	73	69	1.7	71
Electromagnetics	4	55	56	1.0	58
Control Systems	6	50	48	1.3	48
Communications	5	36	49	1.3	51
Signal Processing	5	48	56	1.1	59
Electronics	9	56	57	2.0	60
Digital Systems	7	54	48	1.6	51
Computer Systems	6	60	70	1.3	72

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Electrical</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	4	577	147
Examinees Passing	2	244	73
Examinees Passing %	50	42	50

	# 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	59	65	3.4	65
Engineering Probability and Statistics	8	56	49	1.6	52
Chemistry	11	64	49	2.3	52
Computers	8	75	70	1.8	73
Ethics and Business Practices	8	85	74	1.5	76
Engineering Economics	10	55	56	2.5	60
Engineering Mechanics (Statics)	8	41	34	1.7	36
Engineering Mechanics (Dynamics)	5	25	37	1.3	41
Strength of Materials	8	28	34	1.5	36
Material Properties	8	32	31	1.6	32
Fluid Mechanics	8	28	41	1.6	42
Electricity and Magnetism	11	70	64	2.5	65
Thermodynamics	8	37	44	1.8	45

**PM Subject**

Advanced Engineering Mathematics	6	75	75	1.3	76
Engineering Probability and Statistics	5	55	61	1.2	64
Biology	3	66	57	0.9	60
Engineering Economics	6	67	60	1.3	62
Application of Engineering Mechanics	8	44	37	1.6	39
Engineering of Materials	7	36	39	1.4	39
Fluids	9	39	39	1.7	40
Electricity and Magnetism	7	61	61	1.7	63
Thermodynamics and Heat Transfer	9	44	39	1.5	41

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Engr Physics/Engr Scien</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	1	27	8
Examinees Passing	1	19	7
Examinees Passing %	100	70	88

	# 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	68	75	3.8	74
Engineering Probability and Statistics	8	62	62	1.8	59
Chemistry	11	82	62	2.4	66
Computers	8	62	72	2.2	72
Ethics and Business Practices	8	88	78	1.1	81
Engineering Economics	10	80	67	2.5	67
Engineering Mechanics (Statics)	8	75	61	2.3	68
Engineering Mechanics (Dynamics)	5	80	66	1.6	69
Strength of Materials	8	25	47	1.6	38
Material Properties	8	25	40	1.6	36
Fluid Mechanics	8	50	51	2.1	39
Electricity and Magnetism	11	18	63	2.5	49
Thermodynamics	8	38	56	2.1	47

**PM Subject**

Advanced Engineering Mathematics	6	67	78	1.3	81
Engineering Probability and Statistics	5	60	65	1.2	80
Biology	3	67	67	0.9	67
Engineering Economics	6	67	67	1.3	71
Application of Engineering Mechanics	8	50	53	1.7	45
Engineering of Materials	7	43	47	1.4	45
Fluids	9	44	55	1.9	49
Electricity and Magnetism	7	43	59	1.8	51
Thermodynamics and Heat Transfer	9	44	53	1.5	59

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Environmental</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	1	85	19
Examinees Passing	0	42	7
Examinees Passing %	0	49	37

	# 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	53	65	3.4	61
Engineering Probability and Statistics	8	62	58	1.7	54
Chemistry	11	64	67	2.5	64
Computers	8	50	72	1.6	67
Ethics and Business Practices	8	62	73	1.2	66
Engineering Economics	10	60	62	2.6	52
Engineering Mechanics (Statics)	8	50	46	2.0	39
Engineering Mechanics (Dynamics)	5	20	42	1.5	35
Strength of Materials	8	38	39	1.6	30
Material Properties	8	25	38	1.7	32
Fluid Mechanics	8	50	57	1.8	49
Electricity and Magnetism	11	18	44	3.0	35
Thermodynamics	8	12	48	1.8	49

**PM Subject**

Advanced Engineering Mathematics	6	83	75	1.4	75
Engineering Probability and Statistics	5	100	64	1.0	66
Biology	3	100	62	0.8	69
Engineering Economics	6	67	63	1.1	61
Application of Engineering Mechanics	8	62	42	1.6	38
Engineering of Materials	7	43	46	1.4	46
Fluids	9	33	54	1.9	48
Electricity and Magnetism	7	29	42	1.5	32
Thermodynamics and Heat Transfer	9	33	46	1.8	43

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Mechanical</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	8	1,163	271
Examinees Passing	6	752	177
Examinees Passing %	75	65	65

	# 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	70	69	3.2	69
Engineering Probability and Statistics	8	62	54	1.6	55
Chemistry	11	54	57	2.4	59
Computers	8	74	74	1.7	75
Ethics and Business Practices	8	81	78	1.4	77
Engineering Economics	10	64	64	2.4	67
Engineering Mechanics (Statics)	8	50	53	2.1	55
Engineering Mechanics (Dynamics)	5	52	55	1.5	57
Strength of Materials	8	42	51	1.7	51
Material Properties	8	30	46	1.8	45
Fluid Mechanics	8	44	56	1.8	56
Electricity and Magnetism	11	48	51	2.8	51
Thermodynamics	8	42	52	1.8	52

**PM Subject**

Advanced Engineering Mathematics	6	85	78	1.2	80
Engineering Probability and Statistics	5	82	65	1.1	66
Biology	3	67	67	0.8	68
Engineering Economics	6	62	64	1.3	64
Application of Engineering Mechanics	8	50	55	1.7	54
Engineering of Materials	7	52	53	1.4	54
Fluids	9	51	55	1.9	55
Electricity and Magnetism	7	55	48	1.6	47
Thermodynamics and Heat Transfer	9	43	50	1.7	51

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Mining/Mineral</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	32	32	0.0	32
Engineering Probability and Statistics	8	25	25	0.0	25
Chemistry	11	36	36	0.0	36
Computers	8	38	38	0.0	38
Ethics and Business Practices	8	75	75	0.0	75
Engineering Economics	10	50	50	0.0	50
Engineering Mechanics (Statics)	8	38	38	0.0	38
Engineering Mechanics (Dynamics)	5	40	40	0.0	40
Strength of Materials	8	50	50	0.0	50
Material Properties	8	0	0	0.0	0
Fluid Mechanics	8	12	12	0.0	12
Electricity and Magnetism	11	64	64	0.0	64
Thermodynamics	8	50	50	0.0	50

**PM Subject**

Surveying	7	29	29	0.0	29
Hydraulics and Hydrologic Systems	7	71	71	0.0	71
Soil Mechanics and Foundations	9	22	22	0.0	22
Environmental Engineering	7	57	57	0.0	57
Transportation	7	29	29	0.0	29
Structural Analysis	6	50	50	0.0	50
Structural Design	6	67	67	0.0	67
Construction Management	6	50	50	0.0	50
Materials	5	40	40	0.0	40

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Graduate of	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	3	18	11
Examinees Passing	1	5	4
Examinees Passing %	33	28	36

	# 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	67	58	3.0	57
Engineering Probability and Statistics	8	46	53	1.6	55
Chemistry	11	45	54	2.3	54
Computers	8	71	66	1.9	73
Ethics and Business Practices	8	79	79	1.1	79
Engineering Economics	10	63	57	2.1	60
Engineering Mechanics (Statics)	8	50	37	2.0	37
Engineering Mechanics (Dynamics)	5	27	46	1.1	45
Strength of Materials	8	58	38	1.6	36
Material Properties	8	41	40	2.0	40
Fluid Mechanics	8	54	51	1.9	50
Electricity and Magnetism	11	55	48	2.8	52
Thermodynamics	8	42	47	1.9	44

**PM Subject**

Advanced Engineering Mathematics	6	72	73	1.3	82
Engineering Probability and Statistics	5	47	57	1.2	55
Biology	3	44	67	0.9	70
Engineering Economics	6	72	65	0.8	67
Application of Engineering Mechanics	8	42	47	1.4	46
Engineering of Materials	7	34	47	1.5	50
Fluids	9	44	42	2.1	39
Electricity and Magnetism	7	38	40	1.4	42
Thermodynamics and Heat Transfer	9	33	34	1.7	37

\* 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.

\*\* The standard deviation above is based on number of questions correct not percentage of questions correct.

\*\*\* Indicates schools in your Carnegie classification, see [www.carnegiefoundation.org](http://www.carnegiefoundation.org)

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