

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Currently Enrolled **Engineering**

Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Agricultural** PM Exam: **FE-General**

*Institution National Carnegie Comparator

Examinees Taking	1	50	27
Examinees Passing	1	38	21
Examinees Passing %	100	76	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	63	63	2.6	64
Engineering Probability and Statistics	8	50	52	1.7	49
Chemistry	11	64	69	1.9	69
Computers	8	75	76	1.4	76
Ethics and Business Practices	8	88	74	1.2	71
Engineering Economics	10	50	71	2.1	74
Engineering Mechanics (Statics)	8	25	58	1.8	57
Engineering Mechanics (Dynamics)	5	80	49	1.4	47
Strength of Materials	8	12	50	2.0	54
Material Properties	8	38	49	1.6	46
Fluid Mechanics	8	38	61	1.5	61
Electricity and Magnetism	11	36	58	2.1	63
Thermodynamics	8	25	49	1.7	49

PM Subject

Advanced Engineering Mathematics	6	83	78	1.2	75
Engineering Probability and Statistics	5	80	71	1.0	72
Biology	3	100	79	0.7	80
Engineering Economics	6	100	71	1.1	72
Application of Engineering Mechanics	8	62	55	1.5	56
Engineering of Materials	7	29	49	1.3	48
Fluids	9	56	60	1.7	59
Electricity and Magnetism	7	29	51	1.6	53
Thermodynamics and Heat Transfer	9	33	50	1.3	51

* 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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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Biological-(not Bio-Medi** PM Exam: **FE-General**

*Institution National Carnegie Comparator

Examinees Taking	1	52	17
Examinees Passing	1	47	16
Examinees Passing %	100	90	94

	# 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	89	65	2.8	68
Engineering Probability and Statistics	8	75	62	1.4	61
Chemistry	11	91	78	1.8	81
Computers	8	100	80	1.1	74
Ethics and Business Practices	8	75	80	1.1	81
Engineering Economics	10	90	70	1.9	71
Engineering Mechanics (Statics)	8	100	55	1.9	61
Engineering Mechanics (Dynamics)	5	80	54	1.3	59
Strength of Materials	8	50	50	1.5	55
Material Properties	8	62	46	1.3	48
Fluid Mechanics	8	75	63	1.5	72
Electricity and Magnetism	11	91	63	2.0	63
Thermodynamics	8	88	62	1.6	63

PM Subject

Advanced Engineering Mathematics	6	100	79	1.1	82
Engineering Probability and Statistics	5	80	73	0.9	75
Biology	3	67	76	0.7	86
Engineering Economics	6	100	68	1.3	74
Application of Engineering Mechanics	8	62	51	1.8	42
Engineering of Materials	7	57	51	1.2	49
Fluids	9	67	57	1.6	67
Electricity and Magnetism	7	43	51	1.4	43
Thermodynamics and Heat Transfer	9	89	57	1.5	54

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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Civil** PM Exam: **FE-Civil**

*Institution National Carnegie Comparator

Examinees Taking	22	2,797	1,042
Examinees Passing	20	2,070	812
Examinees Passing %	91	74	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	70	65	3.0	65
Engineering Probability and Statistics	8	52	53	1.6	54
Chemistry	11	68	59	2.2	60
Computers	8	75	72	1.5	73
Ethics and Business Practices	8	85	78	1.3	79
Engineering Economics	10	72	69	2.3	71
Engineering Mechanics (Statics)	8	68	59	2.0	60
Engineering Mechanics (Dynamics)	5	55	53	1.3	53
Strength of Materials	8	52	55	1.6	55
Material Properties	8	40	43	1.6	44
Fluid Mechanics	8	59	56	1.7	57
Electricity and Magnetism	11	39	43	2.4	43
Thermodynamics	8	48	46	1.7	47

PM Subject

Surveying	7	71	57	1.5	58
Hydraulics and Hydrologic Systems	7	69	63	1.5	64
Soil Mechanics and Foundations	9	63	62	1.8	62
Environmental Engineering	7	71	66	1.3	68
Transportation	7	79	72	1.3	73
Structural Analysis	6	43	44	1.1	45
Structural Design	6	59	59	1.4	60
Construction Management	6	67	61	1.3	63
Materials	5	71	67	1.1	67

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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Civil** PM Exam: **FE-General**

*Institution National Carnegie Comparator

Examinees Taking	1	926	165
Examinees Passing	0	583	95
Examinees Passing %	0	63	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	79	69	3.2	67
Engineering Probability and Statistics	8	62	53	1.7	50
Chemistry	11	55	60	2.5	57
Computers	8	50	70	1.7	69
Ethics and Business Practices	8	88	76	1.4	75
Engineering Economics	10	40	67	2.3	65
Engineering Mechanics (Statics)	8	50	58	2.0	53
Engineering Mechanics (Dynamics)	5	40	52	1.4	50
Strength of Materials	8	50	53	1.6	53
Material Properties	8	38	43	1.6	43
Fluid Mechanics	8	25	54	1.6	55
Electricity and Magnetism	11	55	46	2.6	47
Thermodynamics	8	38	48	1.8	45

PM Subject

Advanced Engineering Mathematics	6	83	81	1.1	79
Engineering Probability and Statistics	5	40	65	1.1	62
Biology	3	0	66	0.8	67
Engineering Economics	6	17	64	1.3	62
Application of Engineering Mechanics	8	38	52	1.6	51
Engineering of Materials	7	29	49	1.4	47
Fluids	9	33	50	1.9	51
Electricity and Magnetism	7	43	41	1.3	43
Thermodynamics and Heat Transfer	9	44	42	1.6	41

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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Electrical** PM Exam: **FE-Electrical**

*Institution National Carnegie Comparator

Examinees Taking	4	689	187
Examinees Passing	3	481	142
Examinees Passing %	75	70	76

	# 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	71	3.2	74
Engineering Probability and Statistics	8	56	54	1.6	57
Chemistry	11	59	56	2.3	58
Computers	8	78	76	1.6	77
Ethics and Business Practices	8	72	76	1.4	75
Engineering Economics	10	42	62	2.3	61
Engineering Mechanics (Statics)	8	38	38	1.7	41
Engineering Mechanics (Dynamics)	5	50	44	1.3	45
Strength of Materials	8	25	33	1.4	32
Material Properties	8	38	32	1.5	33
Fluid Mechanics	8	44	39	1.4	38
Electricity and Magnetism	11	82	77	1.9	78
Thermodynamics	8	44	44	1.7	44

PM Subject

Circuits	10	40	57	2.0	60
Power	8	75	71	1.5	73
Electromagnetics	4	56	56	1.0	57
Control Systems	6	46	57	1.3	58
Communications	5	50	53	1.3	56
Signal Processing	5	55	61	1.0	65
Electronics	9	64	64	1.9	67
Digital Systems	7	57	56	1.6	56
Computer Systems	6	87	75	1.2	77

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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Mechanical** PM Exam: **FE-General**

*Institution National Carnegie Comparator

Examinees Taking	18	1,572	454
Examinees Passing	15	1,221	361
Examinees Passing %	83	78	80

	# 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	72	71	3.0	70
Engineering Probability and Statistics	8	58	55	1.6	57
Chemistry	11	62	59	2.3	61
Computers	8	81	75	1.6	76
Ethics and Business Practices	8	84	77	1.3	77
Engineering Economics	10	65	65	2.3	66
Engineering Mechanics (Statics)	8	56	58	1.9	57
Engineering Mechanics (Dynamics)	5	53	61	1.4	62
Strength of Materials	8	50	55	1.7	55
Material Properties	8	47	51	1.7	51
Fluid Mechanics	8	53	58	1.6	56
Electricity and Magnetism	11	59	61	2.5	60
Thermodynamics	8	63	57	1.8	58

PM Subject

Advanced Engineering Mathematics	6	84	82	1.0	83
Engineering Probability and Statistics	5	64	68	1.0	70
Biology	3	78	72	0.8	72
Engineering Economics	6	64	65	1.2	66
Application of Engineering Mechanics	8	57	58	1.5	58
Engineering of Materials	7	49	56	1.4	56
Fluids	9	56	56	1.8	58
Electricity and Magnetism	7	40	52	1.5	50
Thermodynamics and Heat Transfer	9	53	53	1.6	54

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Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington
 Board Code: 71 School Code: 7101
 Major: **Mining/Mineral** PM Exam: **FE-General**

*Institution National Carnegie Comparator

Examinees Taking	3	61	26
Examinees Passing	1	37	14
Examinees Passing %	33	61	54

	# 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	56	59	3.2	57
Engineering Probability and Statistics	8	66	53	1.7	52
Chemistry	11	51	59	2.4	55
Computers	8	67	73	1.6	68
Ethics and Business Practices	8	71	74	1.5	73
Engineering Economics	10	70	72	2.3	68
Engineering Mechanics (Statics)	8	29	50	2.1	45
Engineering Mechanics (Dynamics)	5	40	52	1.5	48
Strength of Materials	8	29	40	1.6	36
Material Properties	8	29	42	1.5	36
Fluid Mechanics	8	67	57	1.7	55
Electricity and Magnetism	11	64	56	2.3	52
Thermodynamics	8	33	49	1.8	45

PM Subject

Advanced Engineering Mathematics	6	72	75	1.2	74
Engineering Probability and Statistics	5	67	65	1.1	63
Biology	3	67	77	0.7	77
Engineering Economics	6	83	65	1.4	60
Application of Engineering Mechanics	8	62	47	1.5	48
Engineering of Materials	7	28	47	1.3	42
Fluids	9	44	52	2.1	48
Electricity and Magnetism	7	38	42	1.6	35
Thermodynamics and Heat Transfer	9	37	41	1.5	40

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