October 2012

NCEES
Fundamentals of Engineering Examination
ABET - Accredited Programs

Currently Enrolled: **Engineering**
Subject Matter Report by Major and PM Examination
Institution: **University of Kentucky, Lexington**
Board Code: **71**
School Code: **7101**
Major: **Chemical**
PM Exam: **FE - Chemical**

	*Institution	National	Carnegie Comparator
Examinees Taking	1	459	128
Examinees Passing	1	365	104
Examinees Passing %	100	80	81

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	74	65	3.1	63
Engineering Probability & Statistics	8	38	58	1.7	57
Chemistry	11	64	76	1.9	77
Computers	8	63	66	1.7	66
Ethics & Business Practices	8	63	73	1.6	72
Engineering Economics	10	60	65	2.1	67
Engineering Mechanics (Statics)	8	75	51	1.7	52
Engineering Mechanics (Dynamics)	5	40	60	1.2	55
Strength of Materials	8	50	53	1.3	54
Material Properties	8	50	58	1.7	59
Fluid Mechanics	8	75	66	1.7	66
Electricity & Magnetism	11	45	55	2.3	54
Thermodynamics	8	63	60	1.6	59
PM Subject					
Chemistry PM	6	67	67	1.4	67
Material-Energy Balances	9	56	56	1.8	55
Chemical Engineering Thermodynamics	6	33	49	1.3	51
Fluid Dynamics	6	50	59	1.4	57
Heat Transfer	6	50	77	1.2	74
Mass Transfer	6	33	60	1.2	60
Chemical Reaction Engineering	6	50	52	1.4	51
Process Design & Economic Optimization	6	33	66	1.3	66
Computer Usage in Chemical Engineering	3	100	69	0.7	66
Process control	3	67	61	0.9	63
Safety & Health & Environmental	3	67	53	1.0	56

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

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

	*Institution	National	Carnegie Comparator
Examinees Taking	44	4,560	1,392
Examinees Passing	30	2,923	931
Examinees Passing %	68	64	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	58	58	3.1	58
Engineering Probability & Statistics	8	47	52	1.7	53
Chemistry	11	53	51	2.2	51
Computers	8	60	57	1.7	56
Ethics & Business Practices	8	76	74	1.5	75
Engineering Economics	10	66	63	2.1	64
Engineering Mechanics (Statics)	8	64	65	1.7	65
Engineering Mechanics (Dynamics)	5	59	61	1.2	60
Strength of Materials	8	64	67	1.5	68
Material Properties	8	47	48	1.6	48
Fluid Mechanics	8	64	63	1.7	63
Electricity & Magnetism	11	48	47	2.1	46
Thermodynamics	8	45	44	1.6	44
PM Subject					
Surveying	7	49	44	1.5	45
Hydraulics & Hydrologic Systems	7	53	54	1.6	55
Soil Mechanics & Foundations	9	71	62	1.9	64
Environmental Engineering	7	49	50	1.5	51
Transportation	7	68	64	1.4	65
Structural Analysis	6	56	57	1.3	57
Structural Design	6	56	58	1.2	59
Construction Management	6	60	62	1.4	64
Materials	5	71	62	1.0	64

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

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

	*Institution	National	Carnegie Comparator
Examinees Taking	4	758	182
Examinees Passing	3	464	125
Examinees Passing %	75	61	69

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	63	62	3.3	64
Engineering Probability & Statistics	8	41	52	1.8	54
Chemistry	11	36	50	2.2	51
Computers	8	66	75	1.6	75
Ethics & Business Practices	8	78	71	1.6	75
Engineering Economics	10	65	55	2.2	55
Engineering Mechanics (Statics)	8	44	47	1.6	50
Engineering Mechanics (Dynamics)	5	60	53	1.2	55
Strength of Materials	8	44	50	1.4	50
Material Properties	8	63	42	1.7	43
Fluid Mechanics	8	72	45	1.7	45
Electricity & Magnetism	11	70	72	2.1	72
Thermodynamics	8	53	44	1.5	45
PM Subject					
Circuits	10	70	66	1.7	67
Power	8	56	51	1.7	53
Electromagnetics	4	56	54	1.0	57
Control Systems	6	42	44	1.3	47
Communications	5	50	45	1.0	48
Signal Processing	5	60	68	1.2	69
Electronics	9	47	55	2.0	57
Digital Systems	7	75	56	1.8	58
Computer Systems	6	79	56	1.4	59

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

	*Institution	National	Carnegie Comparator
Examinees Taking	10	2,482	757
Examinees Passing	7	2,012	614
Examinees Passing %	70	81	81

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	62	63	3.2	63
Engineering Probability & Statistics	8	51	55	1.7	55
Chemistry	11	49	55	2.3	53
Computers	8	65	67	1.8	66
Ethics & Business Practices	8	75	74	1.4	74
Engineering Economics	10	57	61	2.2	61
Engineering Mechanics (Statics)	8	66	66	1.6	66
Engineering Mechanics (Dynamics)	5	66	69	1.2	68
Strength of Materials	8	71	68	1.4	68
Material Properties	8	50	61	1.6	61
Fluid Mechanics	8	61	66	1.7	66
Electricity & Magnetism	11	55	59	2.3	58
Thermodynamics	8	53	57	1.7	57
PM Subject					
Mechanical Design & Analysis	9	48	54	1.6	53
Kinematics & Dynamics & Vibrations	9	48	47	1.5	47
Materials & Processing	6	63	61	1.4	62
Measurements & Instrumentation & Controls	6	65	55	1.4	56
Thermodynamics & Energy Conversion Processes	9	59	56	1.8	56
Fluid Mechanics & Fluid Machinery	9	59	57	1.6	57
Heat Transfer	6	62	61	1.3	62
Refrigeration & HVAC	6	42	40	1.4	40

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

	*Institution	National	Carnegie Comparator
Examinees Taking	6	51	14
Examinees Passing	2	28	4
Examinees Passing %	33	55	29

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	47	54	3.4	47
Engineering Probability & Statistics	8	58	49	1.5	59
Chemistry	11	39	52	2.1	43
Computers	8	60	56	1.6	54
Ethics & Business Practices	8	69	75	1.4	74
Engineering Economics	10	70	64	2.0	66
Engineering Mechanics (Statics)	8	48	55	1.4	58
Engineering Mechanics (Dynamics)	5	80	61	1.2	67
Strength of Materials	8	40	55	1.4	50
Material Properties	8	48	53	1.6	42
Fluid Mechanics	8	60	63	1.5	59
Electricity & Magnetism	11	33	52	2.6	47
Thermodynamics	8	35	46	1.6	39
PM Subject					
Advanced Engineering Mathematics	6	47	50	1.4	46
Engineering Probability & Statistics PM	5	40	53	1.3	54
Biology	3	83	71	0.8	69
Engineering Economics PM	6	53	54	1.2	49
Application of Engineering Mechanics	8	58	52	1.5	54
Engineering of Materials	7	57	54	1.4	53
Fluids	9	50	54	1.9	51
Electricity & Magnetism PM	7	50	47	1.3	43
Thermodynamics & Heat Transfer	9	37	46	1.9	40

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

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	46	16
Examinees Passing	1	32	10
Examinees Passing %	100	70	63

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	58	56	2.8	49
Engineering Probability & Statistics	8	25	51	1.7	47
Chemistry	11	55	56	2.1	52
Computers	8	75	66	1.8	59
Ethics & Business Practices	8	88	73	1.4	75
Engineering Economics	10	50	57	2.0	54
Engineering Mechanics (Statics)	8	63	58	1.6	56
Engineering Mechanics (Dynamics)	5	20	63	1.2	55
Strength of Materials	8	63	65	1.3	64
Material Properties	8	0	57	1.7	48
Fluid Mechanics	8	75	61	1.5	55
Electricity & Magnetism	11	36	59	2.1	50
Thermodynamics	8	75	54	1.7	51
PM Subject					
Advanced Engineering Mathematics	6	67	54	1.4	49
Engineering Probability & Statistics PM	5	20	50	1.1	50
Biology	3	100	67	0.9	75
Engineering Economics PM	6	83	55	1.4	44
Application of Engineering Mechanics	8	50	52	1.5	58
Engineering of Materials	7	43	52	1.4	55
Fluids	9	44	51	1.9	44
Electricity & Magnetism PM	7	29	49	1.6	40
Thermodynamics & Heat Transfer	9	67	58	1.7	58

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