



National Council of Examiners for Engineering and Surveying
Fundamentals of Engineering Examination
ABET - Accredited Programs

200710
2/15/2008

Currently Enrolled	Engineering				
Subject Matter Report by Major and PM Examination (formerly Report 5)					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Agricultural	PM Exam:	FE-Civil		
	*Institution	National		Comparator Groupings	

Examinees Taking	1	3	1	0	2
Examinees Passing	0	1	0	0	1
Examinees Passing %	0	33	0	0	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	37	47	2.6	37	0	53
Engineering Probability and Statistics	8	38	46	1.2	38	0	50
Chemistry	11	55	58	0.6	55	0	60
Computers	8	75	71	0.6	75	0	68
Ethics and Business Practices	8	88	71	1.5	88	0	62
Engineering Economics	10	80	70	1.0	80	0	65
Engineering Mechanics (Statics and Dynamics)	13	62	64	0.6	62	0	66
Strength of Materials	8	12	33	2.1	12	0	44
Material Properties	8	38	46	0.6	38	0	50
Fluid Mechanics	8	50	63	1.7	50	0	69
Electricity and Magnetism	11	64	49	2.1	64	0	41
Thermodynamics	8	25	33	1.2	25	0	38

PM Subject

Surveying	7	14	14	1.0	14	0	14
Hydraulics and Hydrologic Systems	7	57	62	0.6	57	0	64
Soil Mechanics and Foundations	9	44	33	1.0	44	0	28
Environmental Engineering	7	43	43	2.0	43	0	42
Transportation	7	29	34	0.6	29	0	36
Structural Analysis	6	17	28	0.6	17	0	33
Structural Design	6	33	33	1.0	33	0	34
Construction Management	6	17	28	1.2	17	0	34
Materials	5	20	40	1.0	20	0	50

* 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.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Currently Enrolled	Engineering				
Subject Matter Report by Major and PM Examination (formerly Report 5)					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Chemical	PM Exam:	FE-Chemical		
	*Institution	National		Comparator Groupings	

Examinees Taking	1	208	152	27	16
Examinees Passing	1	174	138	16	8
Examinees Passing %	100	84	91	59	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	74	68	3.5	70	60	54
Engineering Probability and Statistics	8	50	55	1.7	57	46	41
Chemistry	11	100	84	1.6	87	74	76
Computers	8	88	74	1.5	78	64	62
Ethics and Business Practices	8	50	77	1.4	79	70	69
Engineering Economics	10	70	72	2.1	75	64	51
Engineering Mechanics (Statics and Dynamics)	13	69	60	2.5	64	46	49
Strength of Materials	8	25	36	1.4	37	35	30
Material Properties	8	50	63	1.5	65	52	54
Fluid Mechanics	8	62	71	1.4	74	61	65
Electricity and Magnetism	11	73	55	2.6	59	40	49
Thermodynamics	8	75	67	1.9	69	57	60

PM Subject

Chemistry	6	50	59	1.4	63	53	35
Material / Energy Balances	9	56	63	1.9	66	47	45
Chemical Engineering Thermodynamics	6	50	66	1.5	70	49	42
Fluid Dynamics	6	50	52	1.4	54	43	37
Heat Transfer	6	100	74	1.3	77	60	59
Mass Transfer	6	67	54	1.3	56	42	47
Chemical Reaction Engineering	6	50	63	1.3	66	48	61
Process Design and Economic Optimization	6	33	66	1.5	70	49	48
Computer Usage and Chemical Engineering	3	67	68	0.9	71	63	44
Process Control	3	0	56	1.0	61	41	42
Safety, Health, and Environmental	3	33	74	0.8	76	70	54

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	FE-Civil		
	*Institution	National	Comparator Groupings		

Examinees Taking	25	2,893	1,769	451	595
Examinees Passing	23	2,074	1,390	279	355
Examinees Passing %	92	72	79	62	60

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	64	61	3.3	63	57	57
Engineering Probability and Statistics	8	55	48	1.6	51	46	43
Chemistry	11	76	64	2.1	66	61	59
Computers	8	65	69	1.5	71	66	64
Ethics and Business Practices	8	84	79	1.3	81	77	76
Engineering Economics	10	82	71	2.1	73	68	66
Engineering Mechanics (Statics and Dynamics)	13	77	73	2.3	76	70	70
Strength of Materials	8	53	57	1.6	59	55	54
Material Properties	8	53	53	1.6	55	52	48
Fluid Mechanics	8	72	68	1.5	69	66	63
Electricity and Magnetism	11	48	43	2.4	45	42	39
Thermodynamics	8	40	38	1.6	40	36	34

PM Subject

Surveying	7	53	43	1.5	44	43	40
Hydraulics and Hydrologic Systems	7	66	63	1.5	64	63	61
Soil Mechanics and Foundations	9	70	56	1.8	58	55	52
Environmental Engineering	7	69	64	1.6	66	61	58
Transportation	7	43	43	1.4	44	40	40
Structural Analysis	6	56	54	1.3	56	51	52
Structural Design	6	36	46	1.3	47	44	45
Construction Management	6	61	51	1.3	53	48	47
Materials	5	63	57	1.1	59	55	54

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	FE-General		
	*Institution	National	Comparator Groupings		

Examinees Taking	2	893	468	114	280
Examinees Passing	2	574	348	51	145
Examinees Passing %	100	64	74	45	52

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AM Subject

Mathematics	19	79	65	3.5	69	62	61
Engineering Probability and Statistics	8	68	51	1.7	54	45	47
Chemistry	11	64	66	2.1	69	61	61
Computers	8	68	68	1.5	72	63	63
Ethics and Business Practices	8	88	76	1.5	78	76	72
Engineering Economics	10	90	71	2.2	74	65	66
Engineering Mechanics (Statics and Dynamics)	13	84	73	2.4	75	69	71
Strength of Materials	8	32	57	1.7	60	53	55
Material Properties	8	50	56	1.7	58	51	53
Fluid Mechanics	8	75	66	1.6	69	64	62
Electricity and Magnetism	11	36	48	2.6	51	43	44
Thermodynamics	8	38	42	1.9	45	35	38

PM Subject

Advanced Engineering Mathematics	6	67	74	1.3	78	68	68
Engineering Probability and Statistics	5	40	48	1.3	52	44	44
Biology	3	33	40	0.8	41	37	39
Engineering Economics	6	75	55	1.6	58	50	50
Application of Engineering Mechanics	8	32	43	1.6	45	40	39
Engineering of Materials	7	36	40	1.3	41	36	41
Fluids	9	56	43	1.9	45	40	39
Electricity and Magnetism	7	43	37	1.1	37	38	36
Thermodynamics and Heat Transfer	9	56	41	1.7	42	36	39

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Electrical	PM Exam:	FE-Electrical		
	*Institution	National	Comparator Groupings		

Examinees Taking	4	681	282	194	161
Examinees Passing	3	475	215	122	109
Examinees Passing %	75	70	76	63	68

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AM Subject

Mathematics	19	83	66	3.3	69	63	66
Engineering Probability and Statistics	8	53	51	1.7	54	50	47
Chemistry	11	59	58	2.1	59	56	55
Computers	8	75	74	1.8	77	71	73
Ethics and Business Practices	8	78	75	1.4	77	75	71
Engineering Economics	10	62	65	2.3	65	64	65
Engineering Mechanics (Statics and Dynamics)	13	38	57	2.5	59	56	55
Strength of Materials	8	15	34	1.4	34	34	33
Material Properties	8	34	47	1.6	49	46	45
Fluid Mechanics	8	38	47	1.7	47	49	43
Electricity and Magnetism	11	62	75	2.2	78	73	73
Thermodynamics	8	25	37	1.6	37	40	35

PM Subject

Circuits	10	60	62	2.0	63	59	62
Power	8	72	59	1.5	60	61	57
Electromagnetics	4	50	47	1.0	48	45	48
Control Systems	6	37	45	1.4	49	41	45
Communications	5	35	51	1.2	53	49	53
Signal Processing	5	40	57	1.2	61	56	55
Electronics	9	64	69	1.8	73	67	67
Digital Systems	7	50	55	1.7	58	53	49
Computer Systems	6	50	57	1.3	59	55	54

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Mechanical	PM Exam:	FE-General		
	*Institution	National	Comparator Groupings		

Examinees Taking	10	1,491	906	235	277
Examinees Passing	7	1,162	751	168	186
Examinees Passing %	70	78	83	71	67

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AM Subject							
Mathematics	19	58	65	3.5	67	62	62
Engineering Probability and Statistics	8	55	50	1.6	51	47	46
Chemistry	11	66	62	2.1	64	59	58
Computers	8	74	71	1.5	72	69	67
Ethics and Business Practices	8	80	76	1.3	78	77	72
Engineering Economics	10	62	69	2.2	72	67	62
Engineering Mechanics (Statics and Dynamics)	13	70	73	2.2	75	71	70
Strength of Materials	8	66	59	1.7	61	57	55
Material Properties	8	64	66	1.6	68	65	59
Fluid Mechanics	8	66	69	1.5	69	68	67
Electricity and Magnetism	11	62	61	2.5	63	56	57
Thermodynamics	8	46	54	1.9	56	51	49

PM Subject							
Advanced Engineering Mathematics	6	77	76	1.2	78	73	74
Engineering Probability and Statistics	5	50	53	1.2	54	49	50
Biology	3	40	40	0.8	40	41	37
Engineering Economics	6	48	53	1.5	54	50	49
Application of Engineering Mechanics	8	45	49	1.6	51	49	46
Engineering of Materials	7	41	47	1.4	48	48	44
Fluids	9	54	46	1.8	48	45	42
Electricity and Magnetism	7	46	43	1.2	43	42	40
Thermodynamics and Heat Transfer	9	50	52	1.6	53	50	50

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Board Code:	71	School Code:	7101		
Major:	Mechanical	PM Exam:	FE-Mechanical		
	*Institution	National	Comparator Groupings		

Examinees Taking	1	742	440	102	125
Examinees Passing	1	596	374	78	92
Examinees Passing %	100	80	85	76	74

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject							
Mathematics	19	53	65	3.4	68	62	64
Engineering Probability and Statistics	8	62	50	1.6	53	48	44
Chemistry	11	27	63	1.9	66	59	59
Computers	8	62	72	1.4	75	66	68
Ethics and Business Practices	8	62	77	1.4	78	75	74
Engineering Economics	10	30	68	2.1	68	72	67
Engineering Mechanics (Statics and Dynamics)	13	69	73	2.2	75	71	72
Strength of Materials	8	25	60	1.7	62	59	57
Material Properties	8	38	64	1.7	66	63	61
Fluid Mechanics	8	50	70	1.4	72	69	68
Electricity and Magnetism	11	45	61	2.4	64	57	56
Thermodynamics	8	75	55	1.9	57	53	52

PM Subject							
Mechanical Design and Analysis	9	78	60	1.7	63	58	56
Kinematics, Dynamics, and Vibrations	9	56	46	1.7	47	42	44
Materials and Processing	6	17	56	1.2	58	56	53
Measurements, Instrumentation, and Controls	6	50	51	1.4	52	54	49
Thermodynamics and Energy Conversion Processes	9	56	52	1.7	53	51	52
Fluid Mechanics and Fluid Machinery	9	56	57	1.7	57	56	53
Heat Transfer	6	50	51	1.5	52	48	48
Refrigeration and HVAC	6	50	49	1.3	50	47	45

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Board Code:	71	School Code:	7101		
Major:	Mining/Mineral	PM Exam:	FE-General		
	*Institution	National	Comparator Groupings		

Examinees Taking	7	35	18	12	0
Examinees Passing	2	14	7	4	0
Examinees Passing %	29	40	39	33	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	48	52	3.2	53	47	0
Engineering Probability and Statistics	8	48	49	1.3	54	42	0
Chemistry	11	61	59	2.4	60	60	0
Computers	8	62	62	1.4	66	56	0
Ethics and Business Practices	8	82	79	1.3	79	80	0
Engineering Economics	10	60	71	2.2	72	71	0
Engineering Mechanics (Statics and Dynamics)	13	61	62	2.4	62	62	0
Strength of Materials	8	43	39	1.5	35	44	0
Material Properties	8	37	48	1.6	49	46	0
Fluid Mechanics	8	61	66	1.5	60	68	0
Electricity and Magnetism	11	53	46	2.4	47	43	0
Thermodynamics	8	28	32	1.5	32	28	0

PM Subject

Advanced Engineering Mathematics	6	64	61	1.3	68	53	0
Engineering Probability and Statistics	5	49	45	1.5	52	35	0
Biology	3	24	27	0.8	26	25	0
Engineering Economics	6	43	52	1.5	49	54	0
Application of Engineering Mechanics	8	32	32	1.5	35	23	0
Engineering of Materials	7	45	42	1.3	46	44	0
Fluids	9	33	33	1.8	35	32	0
Electricity and Magnetism	7	33	34	1.1	34	35	0
Thermodynamics and Heat Transfer	9	44	34	1.6	42	26	0

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