



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

200810  
 1/23/2009

<b>Currently Enrolled Engineering</b>	
Subject Matter Report by Major and PM Examination (formerly Report 5)	
Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Agricultural</b>	PM Exam: <b>FE-General</b>

	*Institution	National	Comparator Groupings		
Examinees Taking	5	62	48	5	9
Examinees Passing	3	47	38	2	7
Examinees Passing %	60	76	79	40	78

	# 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	65	65	3.7	66	62	63
Engineering Probability and Statistics	8	65	66	1.3	65	68	68
Chemistry	11	64	66	2.1	68	58	60
Computers	8	70	73	1.2	75	70	68
Ethics and Business Practices	8	90	84	1.3	85	78	82
Engineering Economics	10	62	65	1.8	67	54	61
Engineering Mechanics (Statics and Dynamics)	13	76	69	2.6	69	59	74
Strength of Materials	8	58	55	1.8	57	48	54
Material Properties	8	48	46	1.6	49	32	41
Fluid Mechanics	8	60	65	1.6	65	58	68
Electricity and Magnetism	11	58	50	2.0	51	49	48
Thermodynamics	8	45	58	1.7	57	58	65

**PM Subject**

Advanced Engineering Mathematics	6	57	60	1.4	62	50	57
Engineering Probability and Statistics	5	52	54	1.2	53	56	56
Biology	3	80	81	0.8	84	60	74
Engineering Economics	6	70	64	1.3	67	57	57
Application of Engineering Mechanics	8	62	59	1.6	60	55	54
Engineering of Materials	7	52	38	1.1	39	32	38
Fluids	9	60	58	1.6	59	54	54
Electricity and Magnetism	7	69	57	1.6	55	57	63
Thermodynamics and Heat Transfer	9	58	51	1.6	50	51	58

\* 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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Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Civil</b>	PM Exam: <b>FE-Civil</b>

	*Institution	National	Comparator Groupings		
Examinees Taking	10	2,894	1,741	461	590
Examinees Passing	8	1,961	1,275	296	341
Examinees Passing %	80	68	73	64	58

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**AM Subject**

Mathematics	19	68	69	3.1	71	67	66
Engineering Probability and Statistics	8	71	67	1.4	69	66	63
Chemistry	11	68	59	2.2	60	58	56
Computers	8	61	64	1.3	66	62	61
Ethics and Business Practices	8	86	82	1.3	83	83	80
Engineering Economics	10	66	57	2.0	59	57	54
Engineering Mechanics (Statics and Dynamics)	13	66	66	2.5	67	64	64
Strength of Materials	8	51	56	1.5	57	55	55
Material Properties	8	49	41	1.5	42	42	38
Fluid Mechanics	8	60	60	1.5	62	60	57
Electricity and Magnetism	11	33	40	1.9	41	40	38
Thermodynamics	8	54	49	1.7	51	49	46

**PM Subject**

Surveying	7	60	59	1.4	60	60	57
Hydraulics and Hydrologic Systems	7	40	42	1.4	42	44	41
Soil Mechanics and Foundations	9	58	51	1.8	52	51	48
Environmental Engineering	7	61	55	1.5	56	56	51
Transportation	7	70	65	1.4	67	64	62
Structural Analysis	6	50	47	1.3	47	46	46
Structural Design	6	33	44	1.3	44	45	44
Construction Management	6	60	56	1.3	58	56	52
Materials	5	82	63	1.1	66	61	58

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Board Code: 71	School Code: 7101
Major: <b>Civil</b>	PM Exam: <b>FE-General</b>
*Institution	National
Comparator Groupings	

Examinees Taking	1	827	429	77	290
Examinees Passing	0	540	331	33	153
Examinees Passing %	0	65	77	43	53

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
<b>AM Subject</b>							
Mathematics	19	42	73	3.1	78	67	68
Engineering Probability and Statistics	8	50	68	1.6	73	62	61
Chemistry	11	36	61	2.3	65	54	56
Computers	8	38	65	1.4	68	60	61
Ethics and Business Practices	8	100	78	1.5	80	76	75
Engineering Economics	10	50	56	2.1	60	44	53
Engineering Mechanics (Statics and Dynamics)	13	46	65	2.7	68	54	62
Strength of Materials	8	12	55	1.5	57	50	54
Material Properties	8	12	39	1.6	39	37	38
Fluid Mechanics	8	25	57	1.6	59	54	54
Electricity and Magnetism	11	45	42	2.1	45	35	39
Thermodynamics	8	12	50	1.8	52	45	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
<b>PM Subject</b>							
Advanced Engineering Mathematics	6	17	65	1.3	68	61	61
Engineering Probability and Statistics	5	80	51	1.2	56	47	46
Biology	3	33	65	0.9	69	57	61
Engineering Economics	6	83	60	1.4	62	53	56
Application of Engineering Mechanics	8	38	57	1.6	60	55	53
Engineering of Materials	7	14	37	1.2	39	33	36
Fluids	9	33	54	1.7	56	54	51
Electricity and Magnetism	7	43	46	1.5	48	44	44
Thermodynamics and Heat Transfer	9	44	41	1.6	42	41	39

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Subject Matter Report by Major and PM Examination (formerly Report 5)	
Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Electrical</b>	PM Exam: <b>FE-Electrical</b>
*Institution	National
Comparator Groupings	

Examinees Taking	5	671	312	159	154
Examinees Passing	3	448	232	97	92
Examinees Passing %	60	67	74	61	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	81	73	3.0	76	71	71
Engineering Probability and Statistics	8	78	68	1.6	70	67	65
Chemistry	11	69	60	2.4	62	56	59
Computers	8	85	80	1.4	82	79	77
Ethics and Business Practices	8	75	81	1.4	83	80	80
Engineering Economics	10	48	53	2.0	53	52	52
Engineering Mechanics (Statics and Dynamics)	13	52	50	2.6	51	47	49
Strength of Materials	8	32	32	1.3	33	32	31
Material Properties	8	40	36	1.6	38	34	35
Fluid Mechanics	8	52	42	1.5	43	38	44
Electricity and Magnetism	11	68	65	2.1	68	64	61
Thermodynamics	8	52	50	1.7	52	49	48

**PM Subject**

Circuits	10	44	48	1.8	50	48	46
Power	8	47	54	1.4	55	54	53
Electromagnetics	4	80	64	1.0	68	60	61
Control Systems	6	27	32	1.3	34	31	31
Communications	5	28	43	1.1	43	40	45
Signal Processing	5	48	48	1.3	50	46	45
Electronics	9	47	53	2.0	54	50	53
Digital Systems	7	49	54	1.8	57	51	51
Computer Systems	6	37	55	1.3	57	53	55

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Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Mechanical</b>	PM Exam: <b>FE-General</b>

	*Institution	National	Comparator Groupings		
Examinees Taking	9	1,399	774	203	343
Examinees Passing	9	1,127	662	157	238
Examinees Passing %	100	81	86	77	69

	# 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	75	75	2.8	78	73	72
Engineering Probability and Statistics	8	68	67	1.4	70	64	61
Chemistry	11	66	64	2.3	66	61	61
Computers	8	78	72	1.4	75	69	68
Ethics and Business Practices	8	92	82	1.3	83	84	78
Engineering Economics	10	57	58	2.0	59	57	55
Engineering Mechanics (Statics and Dynamics)	13	80	70	2.6	71	68	66
Strength of Materials	8	61	55	1.6	56	56	54
Material Properties	8	61	50	1.5	51	51	45
Fluid Mechanics	8	72	62	1.5	62	62	59
Electricity and Magnetism	11	53	51	2.2	52	50	47
Thermodynamics	8	61	62	1.7	63	59	61

**PM Subject**

Advanced Engineering Mathematics	6	81	71	1.3	73	68	69
Engineering Probability and Statistics	5	58	55	1.1	57	53	53
Biology	3	82	75	0.8	78	74	70
Engineering Economics	6	61	58	1.4	59	62	55
Application of Engineering Mechanics	8	60	63	1.5	65	62	59
Engineering of Materials	7	38	41	1.2	43	41	39
Fluids	9	61	56	1.7	57	56	54
Electricity and Magnetism	7	68	60	1.5	62	56	55
Thermodynamics and Heat Transfer	9	54	56	1.6	57	54	52

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Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Mechanical</b>	PM Exam: <b>FE-Mechanical</b>

	*Institution	National	Comparator Groupings		
Examinees Taking	2	828	503	151	107
Examinees Passing	2	676	438	112	77
Examinees Passing %	100	82	87	74	72

	# 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	89	72	3.0	75	68	68
Engineering Probability and Statistics	8	62	65	1.4	67	61	62
Chemistry	11	78	64	2.1	66	61	61
Computers	8	62	72	1.4	74	69	69
Ethics and Business Practices	8	94	83	1.2	84	82	78
Engineering Economics	10	65	55	2.0	55	55	54
Engineering Mechanics (Statics and Dynamics)	13	77	70	2.5	72	67	66
Strength of Materials	8	68	55	1.5	57	53	55
Material Properties	8	50	51	1.5	52	51	47
Fluid Mechanics	8	88	61	1.6	64	58	58
Electricity and Magnetism	11	27	50	2.2	52	46	47
Thermodynamics	8	56	60	1.6	62	57	58

**PM Subject**

Mechanical Design and Analysis	9	78	53	1.7	55	51	49
Kinematics, Dynamics, and Vibrations	9	56	49	1.8	51	47	44
Materials and Processing	6	67	62	1.4	64	57	59
Measurements, Instrumentation, and Controls	6	58	56	1.3	58	53	54
Thermodynamics and Energy Conversion Processes	9	44	58	1.8	59	55	54
Fluid Mechanics and Fluid Machinery	9	72	60	1.6	62	58	58
Heat Transfer	6	50	49	1.2	51	47	42
Refrigeration and HVAC	6	42	42	1.3	43	42	41

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Board: Kentucky	Institution: Kentucky_ University of
Board Code: 71	School Code: 7101
Major: <b>Mining/Mineral</b>	PM Exam: <b>FE-General</b>

	*Institution	National	Comparator Groupings		
Examinees Taking	9	57	34	17	0
Examinees Passing	6	35	24	8	0
Examinees Passing %	67	61	71	47	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	73	66	3.1	70	60	0
Engineering Probability and Statistics	8	76	66	1.5	70	60	0
Chemistry	11	60	63	2.2	62	67	0
Computers	8	70	66	1.3	68	65	0
Ethics and Business Practices	8	85	86	1.1	88	84	0
Engineering Economics	10	64	68	1.7	68	65	0
Engineering Mechanics (Statics and Dynamics)	13	54	61	2.6	63	57	0
Strength of Materials	8	40	43	1.6	50	32	0
Material Properties	8	24	41	1.4	40	41	0
Fluid Mechanics	8	60	55	1.6	56	54	0
Electricity and Magnetism	11	34	49	2.0	50	46	0
Thermodynamics	8	58	55	1.5	59	47	0

**PM Subject**

Advanced Engineering Mathematics	6	61	55	1.4	63	46	0
Engineering Probability and Statistics	5	42	50	1.3	48	51	0
Biology	3	67	75	0.8	78	73	0
Engineering Economics	6	69	64	1.3	66	61	0
Application of Engineering Mechanics	8	56	53	1.7	54	50	0
Engineering of Materials	7	38	34	1.2	39	26	0
Fluids	9	47	46	1.7	52	37	0
Electricity and Magnetism	7	44	55	1.5	55	53	0
Thermodynamics and Heat Transfer	9	42	40	1.5	42	36	0

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