

200804 6/20/2008

ABET - Accredited Programs

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-General

, , , , , , , , , , , , , , , , , , , ,								
	*Institutio	n	National		Comparator Groupings			
Examinees Taking	12		94		74	8	12	
Examinees Passing	10		70		58	6	6	
Examinees Passing %	83		74		78	75	50	
	# Exam Questions	Institution AVG %	National AVG %	National Standard	Carnegie 1 AVG %	Carnegie 2 AVG %	Carnegie 3 AVG %	
AM Subject		Correct	Correct	Deviation **	Correct ***	Correct ***	Correct ***	
Mathematics	19	67	62	3.7	65	56	51	
Engineering Probability and Statistics	8	66	59	1.6	60	56	57	
Chemistry	11	75	74	2.1	77	64	62	
Computers	8	78	75	1.5	78	78	56	
Ethics and Business Practices	8	77	74	1.4	77	75	56	
Engineering Economics	10	69	58	1.9	61	54	47	
Engineering Mechanics (Statics and Dynamics)	13	66	69	2.5	70	60	66	
Strength of Materials	8	65	61	1.6	63	47	62	
Material Properties	8	52	55	1.3	55	48	55	
Fluid Mechanics	8	71	71	1.6	73	66	59	
Electricity and Magnetism	11	49	52	1.9	53	46	49	
Thermodynamics	8	63	59	1.5	60	58	52	
PM Subject								
Advanced Engineering Mathematics	6	47	44	1.3	47	27	35	
Engineering Probability and Statistics	5	40	30	1.2	31	30	27	
Biology	3	70	61	0.8	64	42	56	
Engineering Economics	6	61	53	1.4	55	54	36	
Application of Engineering Mechanics	8	47	49	1.5	50	49	48	
Engineering of Materials	7	52	57	1.4	59	45	49	
Fluids	9	65	64	1.5	66	59	58	
Electricity and Magnetism	7	61	63	1.5	65	61	55	
Thermodynamics and Heat Transfer	9	49	45	1.6	47	42	34	

^{* 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



200804 6/20/2008

ABET - Accredited Programs

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 Groupii			
Examinees Taking	2		790		476	148	77	
Examinees Passing	2		687		423	117	60	
Examinees Passing %	100		87		89	79	78	
AM Subject	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***	
Mathematics	19	58	67	3.6	68	59	65	
Engineering Probability and Statistics	8	82	64	1.6	66	57	64	
Chemistry	11	86	89	1.5	90	85	85	
Computers	8	69	78	1.4	79	74	77	
Ethics and Business Practices	8	75	78	1.3	80	73	72	
Engineering Economics	10	85	64	2.1	64	65	57	
Engineering Mechanics (Statics and Dynamics)	13	38	60	2.8	62	54	58	
Strength of Materials	8	32	40	1.5	41	39	37	
Material Properties	8	38	53	1.5	53	51	53	
Fluid Mechanics	8	82	75	1.5	76	72	74	
Electricity and Magnetism	11	46	45	2.0	47	39	43	
Thermodynamics	8	75	65	1.5	65	62	66	
PM Subject								
Chemistry	6	75	66	1.1	67	63	66	
Material / Energy Balances	9	67	65	1.8	66	64	59	
Chemical Engineering Thermodyanmics	6	50	44	1.3	46	42	41	
Fluid Dynamics	6	33	66	1.4	68	63	61	
Heat Transfer	6	58	76	1.1	77	73	76	
Mass Transfer	6	75	57	1.6	60	49	46	
Chemical Reaction Engineering	6	42	65	1.5	67	58	56	
Process Design and Economic Optimization	6	84	74	1.2	75	71	66	
Computer Usage and Chemical Engineering	3	50	63	0.9	66	58	52	
Process Control	3	50	50	8.0	52	46	47	
Safety, Health, and Environmental	3	50	72	0.8	74	69	69	

^{* 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



200804 6/20/2008

ABET - Accredited Programs

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: Civil PM Exam: FE-Civil

I Wajor.	*Institution		I L-OIVII						
			National		Comparator Groupings				
Examinees Taking	30		4,547		2,497	830	877		
Examinees Passing	25		3,234		1,948	513	527		
Examinees Passing %	83		71		78	62	60		
AM Subject	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***		
Mathematics	19	61	60	3.5	63	55	58		
Engineering Probability and Statistics	8	63	60	1.6	62	57	57		
Chemistry	11	83	69	2.1	71	66	64		
Computers	8	69	68	1.6	70	63	64		
Ethics and Business Practices	8	80	75	1.3	76	74	73		
Engineering Economics	10	60	60	2.0	62	57	56		
Engineering Mechanics (Statics and Dynamics)	13	71	69	2.7	72	64	65		
Strength of Materials	8	67	66	1.6	68	62	63		
Material Properties	8	54	54	1.4	55	52	51		
Fluid Mechanics	8	63	66	1.7	68	66	61		
Electricity and Magnetism	11	34	39	1.9	40	37	36		
Thermodynamics	8	44	49	1.6	51	49	46		
PM Subject									
Surveying	7	66	57	1.4	59	56	54		
Hydraulics and Hydrologic Systems	7	53	50	1.5	51	49	46		
Soil Mechanics and Foundations	9	56	54	1.9	57	51	50		
Environmental Engineering	7	77	70	1.4	73	68	65		
Transportation	7	55	53	1.4	55	50	48		
Structural Analysis	6	42	45	1.2	45	43	44		
Structural Design	6	54	52	1.2	53	50	49		
Construction Management	6	66	63	1.2	65	62	59		
Materials	5	71	63	1.0	65	61	61		

^{* 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



200804 6/20/2008

ABET - Accredited Programs

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: PM Eyam: FE-Flectrical

Major: Electrical	PM Exam: *Institution		FE-Electrical					
			National		Comparator Groupings			
Examinees Ta	ıking	2		1,199		433	255	292
Examinees Pa		2		909		348	188	197
Examinees Pa	assing %	100		76		80	74	67
AM Subject		# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Mathematics		19	66	69	3.5	70	66	66
Engineering P	robability and Statistics	8	82	62	1.8	66	58	57
Chemistry		11	60	68	2.3	71	67	64
Computers		8	82	80	1.5	83	79	74
Ethics and Bus	siness Practices	8	94	76	1.4	78	75	73
Engineering E	conomics	10	55	58	2.2	58	58	58
Engineering M	lechanics (Statics and Dynamics)	13	58	58	2.9	60	56	54
Strength of Ma	aterials	8	32	38	1.5	38	37	38
Material Prope	erties	8	38	41	1.4	41	41	40
Fluid Mechanic	cs	8	56	54	1.7	55	53	49
Electricity and	Magnetism	11	64	69	2.0	70	68	66
Thermodynam	nics	8	50	50	1.6	51	50	47
PM Subject								
Circuits		10	60	63	2.1	64	62	61
Power		8	50	52	1.7	52	55	52
Electromagnet	tics	4	50	68	0.9	68	68	66
Control System	ns	6	33	60	1.4	61	58	58
Communicatio	ons	5	40	61	1.2	61	62	58
Signal Process	sing	5	20	54	1.3	56	54	49
Electronics		9	72	71	1.7	73	69	69
Digital System	ns	7	36	62	1.8	65	60	56
Computer Sys	tems	6	58	61	1.4	66	60	57

^{* 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



200804 6/20/2008

ABET - Accredited Programs

Currently Enrolled **Engineering**

Subject Matter Report by Major and PM Examination (formerly Report 5)

Board: Kentucky Institution: Kentucky_ University of

Board Code: School Code:

Major:	/1 Manufacturing		cnool Code: M Exam:	7101 FE-General				
	-	*Institutio	n	National		Comp	arator Group	ings
Examinees Taking	l	1		2		1	0	1
Examinees Passin		0		0		0	0	0
Examinees Passin	ıg %	0		0		0	0	0
	7	# Exam Questions	Institution AVG %	National AVG %	National Standard	Carnegie 1 AVG %	Carnegie 2 AVG %	Carnegie 3 AVG %
AM Subject			Correct	Correct	Deviation **	Correct ***	Correct ***	Correct ***
Mathematics		19	58	42	4.2	58	0	26
Engineering Proba	ability and Statistics	8	38	44	0.7	38	0	50
Chemistry		11	27	50	3.5	27	0	73
Computers		8	38	44	0.7	38	0	50
Ethics and Busine	ss Practices	8	88	69	2.1	88	0	50
Engineering Econo	omics	10	10	15	0.7	10	0	20
Engineering Mech	anics (Statics and Dynamics)	13	54	38	2.8	54	0	23
Strength of Materia	als	8	50	38	1.4	50	0	25
Material Properties	5	8	50	44	0.7	50	0	38
Fluid Mechanics		8	62	68	0.7	62	0	75
Electricity and Mag	gnetism	11	18	22	0.7	18	0	27
Thermodynamics		8	38	38	0.0	38	0	38
PM Subject								
Advanced Enginee		6	33	42	0.7	33	0	50
Engineering Proba	ability and Statistics	5	0	0	0.0	0	0	0
Biology		3	33	33	0.0	33	0	33
Engineering Econo		6	17	17	0.0	17	0	17
Application of Eng	ineering Mechanics	8	88	63	2.8	88	0	38
Engineering of Ma	terials	7	29	43	1.4	29	0	57
Fluids		9	67	62	0.7	67	0	56
Electricity and Mag	-	7	43	57	1.4	43	0	71
Thermodynamics a	and Heat Transfer	9	44	44	0.0	44	0	44

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



200804 6/20/2008

ABET - Accredited Programs

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: Mechanical PM Exam: FE-General

	*Institution		National		Comparator Groupings		
Examinees Taking	24		3,060		1,657	393	624
Examinees Passing	22		2,543		1,436	300	461
Examinees Passing %	92		83		87	76	74
*	# Exam	Institution	National	National	Carnegie 1	Carnegie 2	Carnegie 3
AM Subject	Questions	AVG % Correct	AVG % Correct	Standard Deviation **	AVG % Correct ***	AVG % Correct ***	AVG % Correct ***
Mathematics Mathematics Mathematics Mathematics	19	70	70	3.4	72	66	67
Engineering Probability and Statistics	8	66	63	1.6	64	59	59
Chemistry	11	72	72	2.1	74	68	67
Computers	8	81	78	1.5	81	74	72
Ethics and Business Practices	8	80	77	1.3	79	76	73
Engineering Economics	10	52	60	2.1	61	58	56
Engineering Mechanics (Statics and Dynamics)	13	76	74	2.4	76	70	70
Strength of Materials	8	64	67	1.8	67	65	64
Material Properties	8	57	58	1.3	59	58	55
Fluid Mechanics	8	75	75	1.5	76	74	72
Electricity and Magnetism	11	57	53	2.0	55	49	49
Thermodynamics	8	62	61	1.6	62	60	60
PM Subject							
Advanced Engineering Mathematics	6	54	49	1.4	51	45	45
Engineering Probability and Statistics	5	32	30	1.1	31	28	27
Biology	3	63	60	0.7	61	58	58
Engineering Economics	6	47	48	1.4	50	46	44
Application of Engineering Mechanics	8	58	57	1.4	58	55	55
Engineering of Materials	7	55	60	1.3	62	58	56
Fluids	9	65	65	1.4	66	63	62
Electricity and Magnetism	7	59	62	1.5	64	58	58
Thermodynamics and Heat Transfer	9	48	51	1.8	53	50	46

^{* 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



200804 6/20/2008

ABET - Accredited Programs

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: Mechanical PM Exam: FE-Mechanical

iviajor. iviectiamicai	i w Lxaii.		FE-INIECHAINCAI				
	*Institutio	on	National		Comp	arator Group	ings
Examinees Taking	3		1,846		850	320	377
Examinees Passing	0		1,568		746	257	303
Examinees Passing %	0		85		88	80	80
· · · · · · · · · · · · · · · · · · ·	# Exam Questions	Institution AVG %	National AVG %	National Standard	Carnegie 1 AVG %	Carnegie 2 AVG %	Carnegie 3 AVG %
AM Subject	Quodiono	Correct	Correct	Deviation **	Correct ***	Correct ***	Correct ***
Mathematics Mathematics	19	58	68	3.4	70	65	66
Engineering Probability and Statistics	8	50	60	1.6	61	59	58
Chemistry	11	54	72	2.1	74	69	67
Computers	8	75	80	1.4	82	77	76
Ethics and Business Practices	8	66	77	1.3	78	76	75
Engineering Economics	10	33	59	2.1	59	61	58
Engineering Mechanics (Statics and Dynar	mics) 13	59	75	2.4	77	73	73
Strength of Materials	8	62	69	1.7	70	67	68
Material Properties	8	37	59	1.3	59	58	59
Fluid Mechanics	8	63	76	1.5	78	74	73
Electricity and Magnetism	11	27	53	2.0	53	51	51
Thermodynamics	8	50	61	1.6	61	59	60
PM Subject							
Mechanical Design and Analysis	9	52	59	1.7	60	56	55
Kinematics, Dynamics, and Vibrations	9	44	62	1.8	60	61	63
Materials and Processing	6	39	56	1.1	57	54	54
Measurements, Instrumentation, and Control	rols 6	22	55	1.4	56	53	51
Thermodynamics and Energy Conversion I	Processes 9	41	58	1.7	59	57	56
Fluid Mechanics and Fluid Machinery	9	37	67	1.6	67	67	66
Heat Transfer	6	39	68	1.3	69	63	66
Refrigeration and HVAC	6	28	42	1.4	42	41	43

^{* 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



200804 6/20/2008

ABET - Accredited Programs

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: Mining/Mineral PM Exam: FE-General

inningg									
	*Institution		National		Comparator Groupings				
Examinees Taking	7		61		41	6	0		
Examinees Passing	5		42		30	1	0		
Examinees Passing %	71		69		73	17	0		
· · · · · · · · · · · · · · · · · · ·	# Exam Questions	Institution AVG %	National AVG %	National Standard	Carnegie 1 AVG %	Carnegie 2 AVG %	Carnegie 3 AVG %		
AM Subject		Correct	Correct	Deviation **	Correct ***	Correct ***	Correct ***		
Mathematics	19	59	61	4.2	64	31	0		
Engineering Probability and Statistics	8	57	60	1.8	65	36	0		
Chemistry	11	59	70	2.1	72	54	0		
Computers	8	57	73	1.5	74	56	0		
Ethics and Business Practices	8	75	77	1.3	79	62	0		
Engineering Economics	10	66	66	1.8	63	72	0		
Engineering Mechanics (Statics and Dynamics)	13	64	65	2.9	69	44	0		
Strength of Materials	8	52	56	1.8	60	33	0		
Material Properties	8	46	51	1.3	52	40	0		
Fluid Mechanics	8	66	65	1.5	66	54	0		
Electricity and Magnetism	11	51	50	1.7	49	45	0		
Thermodynamics	8	43	49	1.2	49	44	0		
PM Subject									
Advanced Engineering Mathematics	6	24	38	1.5	42	22	0		
Engineering Probability and Statistics	5	46	30	1.0	32	20	0		
Biology	3	62	59	0.6	63	39	0		
Engineering Economics	6	57	52	1.4	53	33	0		
Application of Engineering Mechanics	8	43	50	1.3	49	42	0		
Engineering of Materials	7	57	60	1.1	58	52	0		
Fluids	9	54	61	1.3	60	65	0		
Electricity and Magnetism	7	47	58	1.5	57	45	0		
Thermodynamics and Heat Transfer	9	51	41	1.5	44	29	0		

^{* 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