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ABET - Accredited Programs

Graduate	Engineering							
Subject Matter Re	eport by Major and PM Examina	ation						
Board: Board Code: Major:	Kentucky 71 Agricultural	Scl	titution: hool Code: I Exam:	Kentucky_ Un 7101 FE-General	iversity of			
		Institution	State	National		Comp	arator Group	ings
Examinees Takin	g	2	1	33		28	0	5
Examinees Passi	ng	1	1	17		14	0	3
Examinees Passi	ng %	50	100	52		50	0	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	53	53	3.6	50	0	66
Engineering Prob	ability and Statistics	8	56	57	1.5	55	0	65
Chemistry		11	73	69	2.1	69	0	65
Computers		8	81	68	1.7	68	0	68
Ethics and Busine	ess Practices	8	88	83	1.2	82	0	85
Engineering Ecor	nomics	10	55	68	2.1	67	0	76
Engineering Mec	hanics (Statics and Dynamics)	13	38	50	2.8	47	0	65
Strength of Mater	ials	8	31	50	2.3	47	0	70
Material Propertie	es	8	56	45	1.8	44	0	50
Fluid Mechanics		8	50	53	1.8	52	0	58
Electricity and Ma	agnetism	11	32	48	2.4	45	0	64
Thermodynamics	i	8	50	48	1.6	48	0	48
PM Subject								
	ering Mathematics	6	50	57	<mark>1.3</mark>	57	0	60
	ability and Statistics	5	70	48	1.0	48	0	48
Biology		3	33	53	1.0	52	0	53
Engineering Ecor		6	58	56	1.3	52	0	77
	gineering Mechanics	8	12	39	1.5	41	0	32
Engineering of M	aterials	7	50	42	1.5	40	0	51
Fluids		9	39	47	1.9	46	0	58
Electricity and Ma		7	36	41	1.3	39	0	49
Thermodynamics	and Heat Transfer	9	33	42	1.7	43	0	36

* 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



200510

1/25/2006

ABET - Accredited Programs

Graduate	Engineering							
Subject Matter Re	port by Major and PM Examina	ation						
Board: Board Code: Major:	Kentucky 71 Civil	Sc	titution: hool Code: 1 Exam:	Kentucky_ Ur 7101 FE-Civil	niversity of			
		Institution	State	National		Comparator Groupings		ings
Examinees Taking	1	10	20	1,171		549	207	261
Examinees Passir		4	14	336		232	39	47
Examinees Passin	ng %	40	70	29		42	19	18
AM Subject	ĩ	# 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	52	49	3.5	53	45	47
Engineering Proba	ability and Statistics	8	52	50	1.6	54	47	48
Chemistry		11	57	52	1.9	56	51	50
Computers		8	66	55	1.7	61	53	51
Ethics and Business Practices		8	79	74	1.5	79	77	71
Engineering Econo	omics	10	56	58	2.0	63	56	54
Engineering Mech	anics (Statics and Dynamics)	13	42	43	2.4	48	40	41
Strength of Materia	als	8	54	47	1.8	50	44	44
Material Properties	S	8	38	39	1.6	42	40	36
Fluid Mechanics		8	36	41	1.5	44	40	38
Electricity and Mag	gnetism	11	28	33	1.8	36	32	31
Thermodynamics		8	34	36	1.6	39	37	34
PM Subject								
Surveying		7	57	51	1.4	55	50	49
Hydraulics and Hy		7	70	58	1.6	63	55	54
Soil Mechanics an	d Foundations	9	46	45	1.8	48	42	44
Environmental Eng	gineering	7	49	46	1.5	50	44	42
Transportation		7	51	53	1.5	58	50	50
Structural Analysis	6	6	45	33	1.3	38	28	30
Structural Design		6	52	35	1.2	38	33	33
Construction Mana	agement	6	75	61	1.3	64	61	59
Materials		5	46	40	1.1	43	38	38

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



1/25/2006

ABET - Accredited Programs

Graduate	Engineering							
Subject Matter Repor	t by Major and PM Examina	ation						
Board: Board Code: Major:	Kentucky 71 Civil	Scl	titution: hool Code: 1 Exam:	Kentucky_ Un 7101 FE-General	niversity of			
		Institution	State	National		Comparator Groupings		ings
Examinees Taking		9	7	1,136		525	173	324
Examinees Passing		5	2	296		221	32	36
Examinees Passing	%	56	29	26		42	18	11
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	71	59	3.6	65	54	54
Engineering Probabil	ity and Statistics	8	57	53	1.6	59	50	48
Chemistry		11	76	54	2.0	60	53	51
Computers		8	71	56	1.7	63	52	50
Ethics and Business	Practices	8	79	73	1.6	77	74	72
Engineering Econom	ics	10	67	58	2.1	64	55	54
Engineering Mechani	ics (Statics and Dynamics)	13	50	47	2.8	53	44	43
Strength of Materials		8	54	48	1.9	53	47	44
Material Properties		8	38	39	1.7	43	40	35
Fluid Mechanics		8	56	43	1.6	47	43	38
Electricity and Magne	etism	11	45	37	2.2	41	34	33
Thermodynamics		8	44	37	1.7	40	36	33
PM Subject								
Advanced Engineerin	ng Mathematics	6	69	56	1.3	61	53	53
Engineering Probabil		5	53	46	1.3	54	41	41
Biology		3	48	50	0.9	54	50	47
Engineering Econom	ics	6	59	49	1.3	53	48	46
Application of Engine	ering Mechanics	8	40	36	1.6	41	34	30
Engineering of Mater	ials	7	51	40	1.4	43	40	36
Fluids		9	53	39	1.8	44	36	36
Electricity and Magne	etism	7	33	33	1.4	36	32	30
Thermodynamics and	d Heat Transfer	9	37	36	1.8	40	33	33

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



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ABET - Accredited Programs

Graduate	Engineering							
Subject Matter Re	port by Major and PM Examinat	tion						
Board: Board Code: Major:	Kentucky 71 Civil	School Code: 7101		Kentucky_ Un 7101 FE-Industrial	iversity of			
		Institution	State	National		Comparator Groupings		ings
Examinees Taking	1	1	1	5		4	0	1
Examinees Passir		0	0	0		0	0	0
Examinees Passir	ng %	0	0	0		0	0	0
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	37	41	3.4	39	0	47
Engineering Proba	ability and Statistics	8	0	50	2.9	44	0	75
Chemistry		11	73	51	2.3	50	0	55
Computers		8	62	48	1.8	41	0	75
Ethics and Busine	ss Practices	8	100	75	1.9	72	0	88
Engineering Econ	omics	10	40	54	1.5	50	0	70
Engineering Mech	anics (Statics and Dynamics)	13	31	37	2.8	42	0	15
Strength of Materi	als	8	50	38	1.6	41	0	25
Material Properties	S	8	38	30	0.9	28	0	38
Fluid Mechanics		8	38	22	1.1	19	0	38
Electricity and Mag	gnetism	11	18	25	1.5	25	0	27
Thermodynamics		8	38	22	0.8	22	0	25
PM Subject								
Engineering Econo	omics	9	44	47	1.1	42	0	67
Probability and Sta		9	56	40	1.3	44	0	22
Modeling and Con	•	7	71	69	1.8	61	0	100
Industrial Manage		6	83	47	1.5	46	0	50
	d Production Systems	8	38	45	1.1	44	0	50
Facilities and Logi		7	29	43	1.0	39	0	57
Human Factors, P	roductivity, Ergonomics, and W	ork 7	29	37	0.9	32	0	57
Quality		7	71	46	1.5	43	0	57

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



Graduate	Engineering							
Subject Matter Re	port by Major and PM Examina	ation						
Board: Board Code: Major:	Kentucky 71 Electrical	Sc	titution: hool Code: 1 Exam:	Kentucky_ Ur 7101 FE-Electrical				
		Institution	State	National		Comp	arator Group	ings
Examinees Taking	q	2	6	574		270	99	148
Examinees Passir	ng	1	2	267		152	44	60
Examinees Passir	ng %	50	33	47		56	44	41
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	74	62	3.6	66	62	60
Engineering Proba	ability and Statistics	8	62	59	1.5	62	58	56
Chemistry		11	45	57	1.9	60	59	54
Computers		8	88	68	1.7	72	67	64
Ethics and Busine	ess Practices	8	88	77	1.5	81	80	74
Engineering Econ	omics	10	70	62	2.1	67	61	59
Engineering Mech	nanics (Statics and Dynamics)	13	58	40	2.4	42	43	38
Strength of Materi	als	8	31	34	1.4	36	34	32
Material Properties	S	8	38	40	1.6	42	40	38
Fluid Mechanics		8	31	40	1.4	42	41	38
Electricity and Ma	gnetism	11	77	66	2.3	70	65	64
Thermodynamics		8	62	42	1.7	46	44	37
PM Subject								
Circuits		10	50	49	1.9	52	48	47
Power		8	62	56	1.5	59	57	53
Electromagnetics		4	50	44	1.0	49	41	42
Control Systems		6	50	47	1.4	49	51	44
Communications		5	50	40	1.1	42	40	39
Signal Processing	1	5	40	31	1.1	35	32	28
Electronics		9	56	48	1.8	53	44	45
Digital Systems		7	57	51	1.8	56	48	49
Computer System	IS	6	42	44	1.2	45	42	44

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



Graduate	Engineering							
Subject Matter Repo	ort by Major and PM Examina	ation						
Board: Board Code: Major:	Code: 71		titution: hool Code: 1 Exam:	Kentucky_ Un 7101 FE-General	iversity of			
		Institution	State	National		Comp	arator Group	ings
Examinees Taking		3	6	509		204	65	144
Examinees Passing		0	1	175		101	29	33
Examinees Passing	%	0	17	34		50	45	23
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	60	63	3.7	68	64	62
Engineering Probabi	lity and Statistics	8	54	54	1.5	60	56	50
Chemistry		11	58	55	2.0	61	57	55
Computers		8	50	62	1.8	68	64	58
Ethics and Business	Practices	8	83	74	1.7	81	75	75
Engineering Econom	nics	10	43	59	2.1	66	58	57
Engineering Mechan	ics (Statics and Dynamics)	13	33	40	2.4	45	39	36
Strength of Materials	3	8	33	34	1.5	37	34	30
Material Properties		8	25	36	1.6	41	35	32
Fluid Mechanics		8	46	38	1.5	41	35	38
Electricity and Magn	etism	11	55	60	2.5	63	61	60
Thermodynamics		8	62	41	1.7	43	43	40
PM Subject								
Advanced Engineeri		6	61	59	1.3	64	60	56
Engineering Probabi	lity and Statistics	5	33	45	1.2	50	47	43
Biology		3	33	47	0.9	50	54	43
Engineering Econom		6	33	48	1.3	52	49	48
Application of Engine		8	29	32	1.4	34	34	30
Engineering of Mate	rials	7	52	38	1.4	43	44	34
Fluids		9	22	33	1.6	36	34	32
Electricity and Magn		7	33	49	1.6	55	48	47
Thermodynamics an	d Heat Transfer	9	26	36	1.8	40	37	33

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



Graduate	Engineering							
Subject Matter Re	eport by Major and PM Examina	ation						
Board: Board Code: Major:	oard Code: 71		titution: hool Code: 1 Exam:	Kentucky_ Un 7101 FE-General	niversity of			
		Institution	State	National		Comp	arator Group	ings
Examinees Takin	g	1	1	56		23	8	8
Examinees Passi	ing	0	0	28		15	3	1
Examinees Passi	ing %	0	0	50		65	38	12
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	26	65	4.2	70	66	61
Engineering Prob	ability and Statistics	8	88	59	1.7	64	55	50
Chemistry		11	64	63	2.1	68	53	58
Computers		8	62	62	1.9	65	66	56
Ethics and Busine	ess Practices	8	75	75	1.4	71	77	81
Engineering Ecor	nomics	10	50	64	2.3	68	59	64
Engineering Mecl	hanics (Statics and Dynamics)	13	15	55	2.9	57	40	50
Strength of Mater	rials	8	12	54	1.9	56	52	48
Material Propertie	es	8	38	50	1.6	53	42	55
Fluid Mechanics		8	62	52	1.7	52	59	45
Electricity and Ma	agnetism	11	36	47	2.7	45	48	40
Thermodynamics	i	8	25	45	1.9	48	42	34
PM Subject								
	eering Mathematics	6	67	63	1.3	68	58	56
	ability and Statistics	5	20	54	1.2	63	45	45
Biology		3	67	53	1.0	67	38	33
Engineering Ecor		6	67	52	1.5	61	42	44
	gineering Mechanics	8	25	43	1.6	48	44	31
Engineering of Ma	aterials	7	43	42	1.4	45	43	39
Fluids		9	44	46	1.8	48	44	31
Electricity and Ma		7	14	41	1.9	39	45	30
Thermodynamics	and Heat Transfer	9	44	43	1.9	47	31	38

* 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



Graduate	Engineering							
Subject Matter Re	eport by Major and PM Examina	ation						
Board: Board Code: Major:	Kentucky 71 Mechanical	Sc	titution: hool Code: 1 Exam:	Kentucky_ Un 7101 FE-General	iversity of			
		Institution	State	National		Comparator Groupings		ings
Examinees Takin	g	2	7	748		435	99	164
Examinees Passi	ing	2	6	429		305	42	67
Examinees Passi	ing %	100	86	57		70	42	41
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	71	64	3.7	69	60	58
Engineering Prob	ability and Statistics	8	62	59	1.6	63	55	53
Chemistry		11	73	62	2.0	66	57	58
Computers		8	50	64	1.6	69	58	59
Ethics and Busine	ess Practices	8	81	80	1.3	82	79	77
Engineering Ecor	nomics	10	85	65	2.1	70	60	58
Engineering Mecl	hanics (Statics and Dynamics)	13	69	56	2.8	61	50	51
Strength of Mater	rials	8	88	57	2.0	62	48	54
Material Propertie	es	8	69	53	1.8	56	47	49
Fluid Mechanics		8	81	52	1.7	55	45	49
Electricity and Ma	agnetism	11	55	48	2.5	52	42	45
Thermodynamics	i	8	62	48	2.0	51	46	45
PM Subject								
	eering Mathematics	6	58	62	1.3	66	57	57
	ability and Statistics	5	50	49	1.3	55	47	39
Biology		3	17	53	0.9	58	50	45
Engineering Ecor		6	83	52	1.3	55	51	47
	gineering Mechanics	8	81	46	1.6	50	39	42
Engineering of Ma	aterials	7	50	50	1.4	53	46	47
Fluids		9	72	46	1.9	50	40	42
Electricity and Ma		7	57	44	1.5	47	40	41
Thermodynamics	and Heat Transfer	9	61	44	1.7	46	39	42

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



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ABET - Accredited Programs

Graduate	Engineering							
Subject Matter Report	t by Major and PM Examina	ation						
Board: Board Code: Major:	oard Code: 71		titution: hool Code: I Exam:	Kentucky_ Un 7101 FE-General	iversity of			
		Institution	State	National		Comp	arator Group	oings
Examinees Taking		5	3	18		14	2	0
Examinees Passing		1	0	7		5	1	0
Examinees Passing 9	6	20	0	39		36	50	0
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	54	3.7	54	42	0
Engineering Probabili	ty and Statistics	8	42	52	1.6	50	62	0
Chemistry		11	55	55	1.8	56	50	0
Computers		8	60	61	1.6	62	69	0
Ethics and Business I	Practices	8	85	82	1.4	85	56	0
Engineering Economi	CS	10	68	66	1.8	68	60	0
Engineering Mechani	cs (Statics and Dynamics)	13	28	41	2.3	41	35	0
Strength of Materials		8	30	36	1.7	35	31	0
Material Properties		8	28	43	1.8	43	25	0
Fluid Mechanics		8	32	40	1.4	39	38	0
Electricity and Magne	tism	11	33	40	2.3	40	32	0
Thermodynamics		8	32	37	1.4	36	44	0
PM Subject								
Advanced Engineerin	g Mathematics	6	67	55	1.4	52	67	0
Engineering Probabili	ty and Statistics	5	48	39	1.3	41	20	0
Biology		3	60	50	0.8	55	33	0
Engineering Economi		6	53	51	1.6	51	42	0
Application of Engine	ering Mechanics	8	30	40	1.2	37	38	0
Engineering of Materi	als	7	37	46	1.5	43	57	0
Fluids		9	38	39	1.8	38	44	0
Electricity and Magne		7	37	44	1.1	41	50	0
Thermodynamics and	Heat Transfer	9	40	41	1.5	41	33	0

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