

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: AGRICULTURAL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	5	5	81	64	5	3
No. Examinees Passing	5	5	69	56	5	2
% Examinees Passing	100%	100%	85%	88%	100%	67%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	65	70	2.0	71	69	48
COMPUTERS	7	57	60	1.4	60	57	81
DYNAMICS	9	73	69	1.6	71	76	59
ELECTRICAL CIRCUITS	12	55	55	2.3	56	70	39
ENGINEERING ECON	5	88	74	1.1	73	68	67
ETHICS	5	68	67	1.0	68	64	60
FLUID MECHANICS	8	65	61	1.4	62	65	63
MAT SCI/STR MATTER	8	63	66	1.4	65	78	58
MATHEMATICS	24	66	64	3.7	64	75	57
MECH OF MATERIALS	8	53	62	1.7	63	68	71
STATICS	12	68	63	2.4	64	75	50
THERMODYNAMICS	11	73	59	2.4	62	56	27

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	47	54	1.5	53	60	56
CHEMISTRY	5	32	39	1.1	39	40	40
COMPUTERS	3	67	65	0.9	68	47	67
DYNAMICS	5	40	39	1.1	40	36	27
ENGINRING ECONOMICS	3	60	63	0.9	63	87	33
ETHICS	3	80	77	0.7	76	67	89
FLUID MECHANICS	4	70	51	1.1	53	40	25
MATHEMATICS	12	52	58	2.1	59	70	53
MAT SCI/STR MATTER	3	53	54	0.8	55	60	44
MECH OF MATERIALS	4	40	35	1.0	37	50	25
STATICS	6	53	65	1.4	66	63	72
THERMODYNAMICS	6	53	47	1.4	49	57	11

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: AGRICULTURAL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: ENVIRONMENTAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	1	4	4	.	.
No. Examinees Passing	1	1	3	3	.	.
% Examinees Passing	100%	100%	75%	75%	.%	.%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	64	80	2.1	80	.	.
COMPUTERS	7	86	61	2.8	61	.	.
DYNAMICS	9	67	69	1.0	69	.	.
ELECTRICAL CIRCUITS	12	67	56	1.3	56	.	.
ENGINEERING ECON	5	100	75	1.5	75	.	.
ETHICS	5	80	70	0.6	70	.	.
FLUID MECHANICS	8	63	59	1.0	59	.	.
MAT SCI/STR MATTER	8	63	63	0.8	63	.	.
MATHEMATICS	24	71	56	5.8	56	.	.
MECH OF MATERIALS	8	50	56	1.9	56	.	.
STATICS	12	67	54	2.4	54	.	.
THERMODYNAMICS	11	55	45	2.9	45	.	.

PM Subject (2 points each)

AIR QUALITY ENG	9	56	44	1.4	44	.	.
ENV SCIENCE & MNGMNT	9	44	50	1.0	50	.	.
WATER RESOURCES	15	53	52	3.3	52	.	.
SOLID & HAZ WASTE	9	56	28	2.1	28	.	.
WATER & WASTEWATER	18	44	46	3.3	46	.	.

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: CIVIL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	33	45	1688	1049	247	179
No. Examinees Passing	23	31	1369	882	205	132
% Examinees Passing	70%	69%	81%	84%	83%	74%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	62	61	2.1	63	62	59
COMPUTERS	7	60	53	1.4	55	49	53
DYNAMICS	9	69	64	1.8	66	66	59
ELECTRICAL CIRCUITS	12	33	41	2.1	41	45	39
ENGINEERING ECON	5	67	72	1.1	72	71	70
ETHICS	5	72	66	1.0	66	65	67
FLUID MECHANICS	8	59	56	1.6	58	58	51
MAT SCI/STR MATTER	8	61	61	1.5	62	62	56
MATHEMATICS	24	60	59	3.8	61	59	57
MECH OF MATERIALS	8	63	63	1.5	65	64	62
STATICS	12	62	61	2.2	63	64	58
THERMODYNAMICS	11	51	45	2.1	46	48	40

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	46	43	0.9	43	43	41
COMP & NUM METHODS	6	52	53	1.2	55	54	51
ENVIRONMENTAL ENGR	6	56	55	1.1	56	58	52
HYDRAUL/HYDROLOG SYS	6	61	59	1.4	59	63	54
LEGAL & PROF ASPECTS	3	80	75	0.8	75	74	74
STRUCTURAL ANALYSIS	6	63	64	1.0	64	66	62
STRUCTURAL DESIGN	6	33	48	1.3	47	52	46
SOIL MECH & FOUNDAT	6	54	56	1.4	58	58	53
SURVEYING	6	47	45	1.2	45	47	47
TRANS FACILITIES	6	45	50	1.3	50	52	49
WATER PUR & TREAT	6	49	51	1.5	50	53	49

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: CIVIL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	5	5	899	442	111	265
No. Examinees Passing	3	3	605	340	61	152
% Examinees Passing	60%	60%	67%	77%	55%	57%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	60	60	2.1	63	54	56
COMPUTERS	7	60	52	1.5	56	49	47
DYNAMICS	9	67	64	1.9	67	58	61
ELECTRICAL CIRCUITS	12	42	44	2.3	45	41	42
ENGINEERING ECON	5	60	67	1.2	71	61	64
ETHICS	5	52	63	1.1	64	62	63
FLUID MECHANICS	8	73	53	1.8	56	50	50
MAT SCI/STR MATTER	8	55	58	1.6	63	52	55
MATHEMATICS	24	62	60	4.0	63	55	58
MECH OF MATERIALS	8	53	63	1.6	66	61	59
STATICS	12	50	61	2.4	64	57	56
THERMODYNAMICS	11	56	45	2.4	47	43	42

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	33	40	1.4	42	38	38
CHEMISTRY	5	56	37	1.0	39	35	34
COMPUTERS	3	67	57	0.9	63	48	50
DYNAMICS	5	40	35	1.2	36	40	34
ENGINRING ECONOMICS	3	60	59	0.9	62	55	56
ETHICS	3	80	70	0.8	71	73	68
FLUID MECHANICS	4	30	47	1.0	48	46	46
MATHEMATICS	12	45	61	2.3	65	56	56
MAT SCI/STR MATTER	3	53	52	0.9	59	46	46
MECH OF MATERIALS	4	15	35	0.9	36	37	33
STATICS	6	60	57	1.5	61	52	53
THERMODYNAMICS	6	40	37	1.3	40	33	35

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY	Name of Institution: University of Kentucky
Board Code: 71	Institution Code: 10
Major: ELECTRICAL	PM Examination Selected: ELECTRICAL

	This	State	Nat'l	Comparator Groupings		
	Institution					
No. Examinees Taking	1	2	597	272	120	107
No. Examinees Passing	1	2	472	228	79	82
% Examinees Passing	100%	100%	79%	84%	66%	77%

	This	Nat'l	Nat'l	Carnegie	Carnegie	Carnegie
	Institution	Average	Standard	Rsrch/Doc	Rsrch/Doc	Masters
Number	Percent	Percent	Deviation	Extensive	Intensive	Comp.
of Exam	Correct	Correct		Average	Average	Average
Questions				Percent	Percent	Percent
				Correct	Correct	Correct

AM Subject (1 point each)

CHEMISTRY	11	55	56	2.0	58	54	54
COMPUTERS	7	86	73	1.5	76	68	70
DYNAMICS	9	44	59	1.8	61	56	56
ELECTRICAL CIRCUITS	12	75	71	2.0	73	70	70
ENGINEERING ECON	5	100	62	1.3	63	58	62
ETHICS	5	100	64	1.1	66	64	59
FLUID MECHANICS	8	25	40	1.4	41	38	38
MAT SCI/STR MATTER	8	88	55	1.7	56	51	53
MATHEMATICS	24	88	67	4.0	69	64	66
MECH OF MATERIALS	8	50	40	1.4	41	39	39
STATICS	12	75	53	2.3	56	49	51
THERMODYNAMICS	11	36	41	2.2	43	38	38

PM Subject (2 points each)

ANALOG ELEC CIRCUITS	6	67	49	1.2	50	47	51
CONT SYS THEORY ANAL	6	33	44	1.2	44	43	45
COMP HARDWR ENGINRNG	3	67	44	0.9	48	39	42
COMP & NUM METHODS	3	67	39	0.8	41	35	40
COMP SOFTWR ENGINRNG	3	33	68	1.0	72	60	66
COMM THEORY	6	33	49	1.2	48	48	50
DIGITAL SYSTEMS	6	67	70	1.4	73	66	65
ELECTRO THEORY & APP	6	83	46	1.2	48	42	45
INSTRUMENTATION	3	67	46	0.9	51	43	42
NETWORK ANALYSIS	6	67	42	1.3	43	40	43
POWER SYSTEMS	3	100	44	0.7	47	38	43
SIGNAL PROCESSING	3	33	37	0.9	38	41	29
SOLID ST ELEC & DEV	6	67	56	1.4	61	47	55

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ABET-Accredited Engineering Program Examinees
Currently Enrolled in School

Board: KENTUCKY
Board Code: 71
Major: MATERIALS

Name of Institution: University of Kentucky
Institution Code: 10
PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	1	25	17	4	1
No. Examinees Passing	1	1	18	12	3	1
% Examinees Passing	100%	100%	72%	71%	75%	100%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	100	64	2.4	66	80	64
COMPUTERS	7	71	54	1.1	52	46	86
DYNAMICS	9	44	56	1.6	60	39	67
ELECTRICAL CIRCUITS	12	25	37	2.1	36	35	58
ENGINEERING ECON	5	20	66	1.3	64	75	80
ETHICS	5	60	57	0.9	54	65	60
FLUID MECHANICS	8	88	61	1.9	58	66	75
MAT SCI/STR MATTER	8	88	59	1.7	62	53	75
MATHEMATICS	24	71	60	3.5	61	56	63
MECH OF MATERIALS	8	50	61	1.2	62	56	75
STATICS	12	67	61	2.3	59	60	75
THERMODYNAMICS	11	73	42	1.9	42	41	45

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	67	43	0.8	41	50	33
COMP & NUM METHODS	6	33	55	1.1	52	54	83
ENVIRONMENTAL ENGR	6	33	57	1.4	52	67	83
HYDRAUL/HYDROLOG SYS	6	50	54	1.4	59	46	50
LEGAL & PROF ASPECTS	3	100	80	0.8	73	92	100
STRUCTURAL ANALYSIS	6	67	66	1.2	64	75	83
STRUCTURAL DESIGN	6	17	41	1.2	40	50	50
SOIL MECH & FOUNDAT	6	50	50	1.1	53	50	33
SURVEYING	6	50	43	1.3	43	42	50
TRANS FACILITIES	6	67	45	1.4	48	42	67
WATER PUR & TREAT	6	67	59	1.4	56	75	67

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	4	12	1287	651	274	198
No. Examinees Passing	3	9	1084	575	216	160
% Examinees Passing	75%	75%	84%	88%	79%	81%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	57	60	2.1	61	58	58
COMPUTERS	7	54	58	1.6	62	52	55
DYNAMICS	9	64	71	1.7	74	67	69
ELECTRICAL CIRCUITS	12	63	58	2.1	60	54	55
ENGINEERING ECON	5	55	67	1.2	69	64	66
ETHICS	5	80	66	1.1	66	64	68
FLUID MECHANICS	8	53	57	1.7	59	54	54
MAT SCI/STR MATTER	8	78	66	1.5	68	63	64
MATHEMATICS	24	77	65	3.8	67	63	64
MECH OF MATERIALS	8	75	65	1.5	65	65	64
STATICS	12	60	63	2.2	66	60	61
THERMODYNAMICS	11	68	62	2.3	64	61	59

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	46	50	1.4	50	47	51
CHEMISTRY	5	55	36	1.0	36	36	34
COMPUTERS	3	58	66	0.9	69	61	59
DYNAMICS	5	35	40	1.3	41	40	36
ENGINRING ECONOMICS	3	75	58	0.9	59	53	60
ETHICS	3	75	70	0.8	70	70	68
FLUID MECHANICS	4	63	47	1.1	47	46	48
MATHEMATICS	12	73	64	2.2	65	62	61
MAT SCI/STR MATTER	3	58	59	0.9	60	58	56
MECH OF MATERIALS	4	38	40	1.0	41	40	40
STATICS	6	63	64	1.4	66	63	61
THERMODYNAMICS	6	46	47	1.4	50	46	46

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: University of Kentucky
 Institution Code: 10
 PM Examination Selected: MECHANICAL

	This	State	Nat'l	Comparator Groupings		
	Institution					
No. Examinees Taking	4	10	499	289	94	45
No. Examinees Passing	3	9	435	253	82	37
% Examinees Passing	75%	90%	87%	88%	87%	82%

	This	Nat'l	Nat'l	Carnegie	Carnegie	Carnegie
	Institution	Average	Standard	Rsrch/Doc	Rsrch/Doc	Masters
	Number	Percent	Deviation	Extensive	Intensive	Comp.
	of Exam	Correct		Average	Average	Average
	Questions	Correct		Percent	Percent	Percent

AM Subject (1 point each)

CHEMISTRY	11	61	60	2.0	62	60	60
COMPUTERS	7	64	60	1.6	58	61	63
DYNAMICS	9	83	71	1.8	72	69	66
ELECTRICAL CIRCUITS	12	69	58	2.1	59	55	56
ENGINEERING ECON	5	60	65	1.2	64	66	68
ETHICS	5	65	66	1.1	66	66	64
FLUID MECHANICS	8	50	59	1.6	60	57	57
MAT SCI/STR MATTER	8	56	69	1.5	69	68	67
MATHEMATICS	24	66	64	3.9	65	63	66
MECH OF MATERIALS	8	63	65	1.5	66	62	63
STATICS	12	58	64	2.2	64	64	64
THERMODYNAMICS	11	59	62	2.3	62	63	60

PM Subject (2 points each)

AUTOMATIC CONTROLS	3	58	50	1.0	49	54	46
COMPUTER	3	33	43	0.9	44	42	38
MECHANICAL DESIGN	6	38	65	1.4	66	61	61
DYNAMIC SYSTEMS	6	50	43	1.4	45	40	40
ENERGY CONVERSION	3	42	50	1.0	48	50	48
FLUID MECHANICS	6	58	49	1.1	48	51	48
FANS/PUMPS & COMPR	3	33	19	0.7	18	17	18
HEAT TRANSFER	6	63	57	1.3	56	60	54
MEASUREMENT & INSTRU	6	67	61	1.3	61	63	63
MATL BEHAV & PROCESS	3	33	52	0.9	52	51	53
REFRIGERATION & HVAC	3	42	34	0.9	35	33	34
STRESS ANALYSIS	6	50	37	1.4	37	35	32
THERMODYNAMICS	6	71	61	1.3	61	62	60

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
Currently Enrolled in School

Board: KENTUCKY
Board Code: 71
Major: MINING

Name of Institution: University of Kentucky
Institution Code: 10
PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	1	22	6	8	.
No. Examinees Passing	1	1	10	4	2	.
% Examinees Passing	100%	100%	45%	67%	25%	.%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	64	66	1.9	68	64	.
COMPUTERS	7	71	47	1.4	57	39	.
DYNAMICS	9	100	66	1.9	76	63	.
ELECTRICAL CIRCUITS	12	58	44	3.0	54	34	.
ENGINEERING ECON	5	80	73	1.1	80	58	.
ETHICS	5	80	63	1.1	60	58	.
FLUID MECHANICS	8	38	44	1.7	48	38	.
MAT SCI/STR MATTER	8	63	63	1.4	71	63	.
MATHEMATICS	24	46	50	4.2	60	42	.
MECH OF MATERIALS	8	88	52	1.6	58	45	.
STATICS	12	67	56	1.8	60	51	.
THERMODYNAMICS	11	36	45	1.9	41	47	.

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	33	39	1.0	36	33	.
CHEMISTRY	5	60	40	1.1	47	43	.
COMPUTERS	3	67	65	1.0	67	54	.
DYNAMICS	5	40	41	1.1	40	40	.
ENGINRING ECONOMICS	3	33	55	1.0	44	38	.
ETHICS	3	67	70	0.8	78	71	.
FLUID MECHANICS	4	75	47	1.1	63	50	.
MATHEMATICS	12	58	48	2.2	53	44	.
MAT SCI/STR MATTER	3	67	48	0.7	67	42	.
MECH OF MATERIALS	4	75	27	1.0	33	25	.
STATICS	6	100	48	1.7	61	33	.
THERMODYNAMICS	6	50	50	0.9	44	56	.

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Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY	Name of Institution: University of Louisville
Board Code: 71	Institution Code: 20
Major: CIVIL	PM Examination Selected: CIVIL

	This	State	Nat'l	Comparator Groupings		
	Institution					
No. Examinees Taking	8	45	1688	1049	247	179
No. Examinees Passing	5	31	1369	882	205	132
% Examinees Passing	63%	69%	81%	84%	83%	74%

	This	Nat'l	Nat'l	Carnegie	Carnegie	Carnegie
	Institution	Average	Standard	Rsrch/Doc	Rsrch/Doc	Masters
	Number	Percent	Deviation	Extensive	Intensive	Comp.
	of Exam	Correct		Average	Average	Average
	Questions	Correct		Percent	Percent	Percent
		Correct		Correct	Correct	Correct

AM Subject (1 point each)

CHEMISTRY	11	65	61	2.1	63	62	59
COMPUTERS	7	57	53	1.4	55	49	53
DYNAMICS	9	58	64	1.8	66	66	59
ELECTRICAL CIRCUITS	12	44	41	2.1	41	45	39
ENGINEERING ECON	5	60	72	1.1	72	71	70
ETHICS	5	65	66	1.0	66	65	67
FLUID MECHANICS	8	50	56	1.6	58	58	51
MAT SCI/STR MATTER	8	47	61	1.5	62	62	56
MATHEMATICS	24	58	59	3.8	61	59	57
MECH OF MATERIALS	8	44	63	1.5	65	64	62
STATICS	12	53	61	2.2	63	64	58
THERMODYNAMICS	11	47	45	2.1	46	48	40

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	29	43	0.9	43	43	41
COMP & NUM METHODS	6	56	53	1.2	55	54	51
ENVIRONMENTAL ENGR	6	54	55	1.1	56	58	52
HYDRAUL/HYDROLOG SYS	6	60	59	1.4	59	63	54
LEGAL & PROF ASPECTS	3	67	75	0.8	75	74	74
STRUCTURAL ANALYSIS	6	56	64	1.0	64	66	62
STRUCTURAL DESIGN	6	46	48	1.3	47	52	46
SOIL MECH & FOUNDAT	6	58	56	1.4	58	58	53
SURVEYING	6	52	45	1.2	45	47	47
TRANS FACILITIES	6	48	50	1.3	50	52	49
WATER PUR & TREAT	6	35	51	1.5	50	53	49

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: ELECTRICAL

Name of Institution: University of Louisville
 Institution Code: 20
 PM Examination Selected: ELECTRICAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	2	597	272	120	107
No. Examinees Passing	1	2	472	228	79	82
% Examinees Passing	100%	100%	79%	84%	66%	77%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	9	56	2.0	58	54	54
COMPUTERS	7	71	73	1.5	76	68	70
DYNAMICS	9	44	59	1.8	61	56	56
ELECTRICAL CIRCUITS	12	75	71	2.0	73	70	70
ENGINEERING ECON	5	80	62	1.3	63	58	62
ETHICS	5	60	64	1.1	66	64	59
FLUID MECHANICS	8	38	40	1.4	41	38	38
MAT SCI/STR MATTER	8	25	55	1.7	56	51	53
MATHEMATICS	24	75	67	4.0	69	64	66
MECH OF MATERIALS	8	13	40	1.4	41	39	39
STATICS	12	83	53	2.3	56	49	51
THERMODYNAMICS	11	27	41	2.2	43	38	38

PM Subject (2 points each)

ANALOG ELEC CIRCUITS	6	50	49	1.2	50	47	51
CONT SYS THEORY ANAL	6	33	44	1.2	44	43	45
COMP HARDWR ENGINRNG	3	33	44	0.9	48	39	42
COMP & NUM METHODS	3	33	39	0.8	41	35	40
COMP SOFTWR ENGINRNG	3	100	68	1.0	72	60	66
COMM THEORY	6	33	49	1.2	48	48	50
DIGITAL SYSTEMS	6	83	70	1.4	73	66	65
ELECTRO THEORY & APP	6	33	46	1.2	48	42	45
INSTRUMENTATION	3	0	46	0.9	51	43	42
NETWORK ANALYSIS	6	50	42	1.3	43	40	43
POWER SYSTEMS	3	0	44	0.7	47	38	43
SIGNAL PROCESSING	3	33	37	0.9	38	41	29
SOLID ST ELEC & DEV	6	33	56	1.4	61	47	55

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: University of Louisville
 Institution Code: 20
 PM Examination Selected: MECHANICAL

	This Institution	State	Nat'l	Comparator Groupings		
				289	94	45
No. Examinees Taking	5	10	499	289	94	45
No. Examinees Passing	5	9	435	253	82	37
% Examinees Passing	100%	90%	87%	88%	87%	82%

	This Institution	Nat'l	Nat'l	Carnegie	Carnegie	Carnegie
				Rsrch/Doc Extensive	Rsrch/Doc Intensive	Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	73	60	2.0	62	60	60
COMPUTERS	7	51	60	1.6	58	61	63
DYNAMICS	9	89	71	1.8	72	69	66
ELECTRICAL CIRCUITS	12	62	58	2.1	59	55	56
ENGINEERING ECON	5	72	65	1.2	64	66	68
ETHICS	5	60	66	1.1	66	66	64
FLUID MECHANICS	8	73	59	1.6	60	57	57
MAT SCI/STR MATTER	8	80	69	1.5	69	68	67
MATHEMATICS	24	79	64	3.9	65	63	66
MECH OF MATERIALS	8	80	65	1.5	66	62	63
STATICS	12	77	64	2.2	64	64	64
THERMODYNAMICS	11	75	62	2.3	62	63	60

PM Subject (2 points each)

AUTOMATIC CONTROLS	3	60	50	1.0	49	54	46
COMPUTER	3	53	43	0.9	44	42	38
MECHANICAL DESIGN	6	83	65	1.4	66	61	61
DYNAMIC SYSTEMS	6	53	43	1.4	45	40	40
ENERGY CONVERSION	3	53	50	1.0	48	50	48
FLUID MECHANICS	6	47	49	1.1	48	51	48
FANS/PUMPS & COMPR	3	27	19	0.7	18	17	18
HEAT TRANSFER	6	67	57	1.3	56	60	54
MEASUREMENT & INSTRU	6	63	61	1.3	61	63	63
MATL BEHAV & PROCESS	3	60	52	0.9	52	51	53
REFRIGERATION & HVAC	3	40	34	0.9	35	33	34
STRESS ANALYSIS	6	47	37	1.4	37	35	32
THERMODYNAMICS	6	70	61	1.3	61	62	60

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: CIVIL

Name of Institution: Other
 Institution Code: 30
 PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
				1049	247	179
No. Examinees Taking	4	45	1688	1049	247	179
No. Examinees Passing	3	31	1369	882	205	132
% Examinees Passing	75%	69%	81%	84%	83%	74%

	This Institution	Nat'l	Nat'l	Carnegie	Carnegie	Carnegie
				Rsrch/Doc Extensive	Rsrch/Doc Intensive	Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	66	61	2.1	63	62	59
COMPUTERS	7	43	53	1.4	55	49	53
DYNAMICS	9	53	64	1.8	66	66	59
ELECTRICAL CIRCUITS	12	29	41	2.1	41	45	39
ENGINEERING ECON	5	45	72	1.1	72	71	70
ETHICS	5	60	66	1.0	66	65	67
FLUID MECHANICS	8	56	56	1.6	58	58	51
MAT SCI/STR MATTER	8	53	61	1.5	62	62	56
MATHEMATICS	24	63	59	3.8	61	59	57
MECH OF MATERIALS	8	44	63	1.5	65	64	62
STATICS	12	52	61	2.2	63	64	58
THERMODYNAMICS	11	43	45	2.1	46	48	40

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	58	43	0.9	43	43	41
COMP & NUM METHODS	6	46	53	1.2	55	54	51
ENVIRONMENTAL ENGR	6	54	55	1.1	56	58	52
HYDRAUL/HYDROLOG SYS	6	58	59	1.4	59	63	54
LEGAL & PROF ASPECTS	3	58	75	0.8	75	74	74
STRUCTURAL ANALYSIS	6	71	64	1.0	64	66	62
STRUCTURAL DESIGN	6	42	48	1.3	47	52	46
SOIL MECH & FOUNDAT	6	54	56	1.4	58	58	53
SURVEYING	6	46	45	1.2	45	47	47
TRANS FACILITIES	6	38	50	1.3	50	52	49
WATER PUR & TREAT	6	58	51	1.5	50	53	49

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: Other
 Institution Code: 30
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	5	12	1287	651	274	198
No. Examinees Passing	4	9	1084	575	216	160
% Examinees Passing	80%	75%	84%	88%	79%	81%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	51	60	2.1	61	58	58
COMPUTERS	7	51	58	1.6	62	52	55
DYNAMICS	9	56	71	1.7	74	67	69
ELECTRICAL CIRCUITS	12	47	58	2.1	60	54	55
ENGINEERING ECON	5	72	67	1.2	69	64	66
ETHICS	5	72	66	1.1	66	64	68
FLUID MECHANICS	8	63	57	1.7	59	54	54
MAT SCI/STR MATTER	8	63	66	1.5	68	63	64
MATHEMATICS	24	67	65	3.8	67	63	64
MECH OF MATERIALS	8	45	65	1.5	65	65	64
STATICS	12	57	63	2.2	66	60	61
THERMODYNAMICS	11	53	62	2.3	64	61	59

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	43	50	1.4	50	47	51
CHEMISTRY	5	32	36	1.0	36	36	34
COMPUTERS	3	73	66	0.9	69	61	59
DYNAMICS	5	24	40	1.3	41	40	36
ENGINRING ECONOMICS	3	53	58	0.9	59	53	60
ETHICS	3	67	70	0.8	70	70	68
FLUID MECHANICS	4	65	47	1.1	47	46	48
MATHEMATICS	12	72	64	2.2	65	62	61
MAT SCI/STR MATTER	3	40	59	0.9	60	58	56
MECH OF MATERIALS	4	20	40	1.0	41	40	40
STATICS	6	43	64	1.4	66	63	61
THERMODYNAMICS	6	57	47	1.4	50	46	46

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: Paducah-UK Extended Campus
 Institution Code: 60
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	3	12	1287	651	274	198
No. Examinees Passing	2	9	1084	575	216	160
% Examinees Passing	67%	75%	84%	88%	79%	81%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	64	60	2.1	61	58	58
COMPUTERS	7	43	58	1.6	62	52	55
DYNAMICS	9	81	71	1.7	74	67	69
ELECTRICAL CIRCUITS	12	61	58	2.1	60	54	55
ENGINEERING ECON	5	73	67	1.2	69	64	66
ETHICS	5	60	66	1.1	66	64	68
FLUID MECHANICS	8	42	57	1.7	59	54	54
MAT SCI/STR MATTER	8	67	66	1.5	68	63	64
MATHEMATICS	24	65	65	3.8	67	63	64
MECH OF MATERIALS	8	63	65	1.5	65	65	64
STATICS	12	64	63	2.2	66	60	61
THERMODYNAMICS	11	48	62	2.3	64	61	59

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	50	50	1.4	50	47	51
CHEMISTRY	5	27	36	1.0	36	36	34
COMPUTERS	3	56	66	0.9	69	61	59
DYNAMICS	5	47	40	1.3	41	40	36
ENGINRING ECONOMICS	3	56	58	0.9	59	53	60
ETHICS	3	89	70	0.8	70	70	68
FLUID MECHANICS	4	42	47	1.1	47	46	48
MATHEMATICS	12	67	64	2.2	65	62	61
MAT SCI/STR MATTER	3	56	59	0.9	60	58	56
MECH OF MATERIALS	4	25	40	1.0	41	40	40
STATICS	6	72	64	1.4	66	63	61
THERMODYNAMICS	6	39	47	1.4	50	46	46

National Council of Examiners for Engineering and Surveying (NCEES)
 Fundamentals of Engineering Examination
 OCTOBER 2002 Administration

Report 5 - Subject Matter Report by Major Based on Particular PM Examination Selected

ABET-Accredited Engineering Program Examinees
 Currently Enrolled in School

Board: KENTUCKY
 Board Code: 71
 Major: MECHANICAL

Name of Institution: Paducah-UK Extended Campus
 Institution Code: 60
 PM Examination Selected: MECHANICAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	10	499	289	94	45
No. Examinees Passing	1	9	435	253	82	37
% Examinees Passing	100%	90%	87%	88%	87%	82%

	This Institution	Nat'l	Nat'l	Carnegie Rsrch/Doc Extensive	Carnegie Rsrch/Doc Intensive	Carnegie Masters Comp.
Number of Exam Questions	Average Percent Correct	Average Percent Correct	Standard Deviation	Average Percent Correct	Average Percent Correct	Average Percent Correct

AM Subject (1 point each)

CHEMISTRY	11	55	60	2.0	62	60	60
COMPUTERS	7	71	60	1.6	58	61	63
DYNAMICS	9	89	71	1.8	72	69	66
ELECTRICAL CIRCUITS	12	83	58	2.1	59	55	56
ENGINEERING ECON	5	40	65	1.2	64	66	68
ETHICS	5	40	66	1.1	66	66	64
FLUID MECHANICS	8	38	59	1.6	60	57	57
MAT SCI/STR MATTER	8	63	69	1.5	69	68	67
MATHEMATICS	24	63	64	3.9	65	63	66
MECH OF MATERIALS	8	75	65	1.5	66	62	63
STATICS	12	75	64	2.2	64	64	64
THERMODYNAMICS	11	64	62	2.3	62	63	60

PM Subject (2 points each)

AUTOMATIC CONTROLS	3	33	50	1.0	49	54	46
COMPUTER	3	67	43	0.9	44	42	38
MECHANICAL DESIGN	6	100	65	1.4	66	61	61
DYNAMIC SYSTEMS	6	83	43	1.4	45	40	40
ENERGY CONVERSION	3	100	50	1.0	48	50	48
FLUID MECHANICS	6	83	49	1.1	48	51	48
FANS/PUMPS & COMPR	3	33	19	0.7	18	17	18
HEAT TRANSFER	6	83	57	1.3	56	60	54
MEASUREMENT & INSTRU	6	67	61	1.3	61	63	63
MATL BEHAV & PROCESS	3	33	52	0.9	52	51	53
REFRIGERATION & HVAC	3	0	34	0.9	35	33	34
STRESS ANALYSIS	6	83	37	1.4	37	35	32
THERMODYNAMICS	6	100	61	1.3	61	62	60