

National Council of Examiners for Engineering and Surveying (NCEES)  
Fundamentals of Engineering Examination  
OCTOBER 2003 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: Kentucky, University of  
School Code: 7101  
PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	20	23	1684	1170	281	191
No. Examinees Passing	18	20	1364	985	220	136
% Examinees Passing	90%	87%	81%	84%	78%	71%

	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	56	55	2.0	56	54	50
COMPUTERS	7	59	56	1.5	58	52	51
DYNAMICS	9	63	60	1.7	61	60	56
ELECTRICAL CIRCUITS	12	35	37	2.1	37	40	38
ENGINEERING ECON	5	63	63	1.3	64	64	60
ETHICS	5	64	63	1.1	63	64	62
FLUID MECHANICS	8	66	55	1.8	56	57	49
MAT SCI/STR MATTER	8	58	55	1.7	56	56	53
MATHEMATICS	24	70	64	3.4	66	63	61
MECH OF MATERIALS	8	67	62	1.6	63	62	59
STATICS	12	55	55	2.1	56	54	54
THERMODYNAMICS	11	48	44	2.0	45	43	38

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	62	48	0.9	50	48	42
COMP & NUM METHODS	6	51	49	1.4	51	45	45
ENVIRONMENTAL ENGR	6	62	59	1.3	60	59	57
HYDRAUL/HYDROLOG SYS	6	55	56	1.2	56	56	55
LEGAL & PROF ASPECTS	3	45	44	0.9	44	46	41
STRUCTURAL ANALYSIS	6	67	55	1.3	57	55	51
STRUCTURAL DESIGN	6	48	43	1.1	43	44	40
SOIL MECH & FOUNDAT	6	63	60	1.3	61	57	57
SURVEYING	6	62	62	1.4	62	62	59
TRANS FACILITIES	6	65	57	1.3	58	55	55
WATER PUR & TREAT	6	58	60	1.4	61	62	55

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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: Kentucky, University of  
 School Code: 7101  
 PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	8	8	764	433	104	164
No. Examinees Passing	8	8	580	355	62	114
% Examinees Passing	100%	100%	76%	82%	60%	70%

	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	55	2.1	57	49	53
COMPUTERS	7	63	55	1.6	58	44	51
DYNAMICS	9	72	62	1.7	65	58	59
ELECTRICAL CIRCUITS	12	36	43	2.3	43	38	42
ENGINEERING ECON	5	88	62	1.3	65	55	59
ETHICS	5	65	61	1.2	61	62	58
FLUID MECHANICS	8	58	55	1.8	57	52	51
MAT SCI/STR MATTER	8	63	58	1.7	61	50	57
MATHEMATICS	24	74	67	3.6	70	62	64
MECH OF MATERIALS	8	75	62	1.6	64	57	62
STATICS	12	64	56	2.2	58	51	54
THERMODYNAMICS	11	51	44	2.2	46	38	43

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	44	35	1.0	35	34	35
CHEMISTRY	5	65	51	1.2	53	46	49
COMPUTERS	3	50	50	0.9	55	43	42
DYNAMICS	5	58	43	1.4	47	39	39
ENGINRING ECONOMICS	3	71	40	0.7	41	34	41
ETHICS	3	92	75	0.8	77	66	73
FLUID MECHANICS	4	69	56	1.1	59	52	54
MATHEMATICS	12	79	65	2.0	68	60	62
MAT SCI/STR MATTER	3	71	63	0.8	64	59	65
MECH OF MATERIALS	4	41	42	1.1	44	36	42
STATICS	6	79	70	1.5	71	65	68
THERMODYNAMICS	6	40	39	1.1	39	38	39

National Council of Examiners for Engineering and Surveying (NCEES)  
 Fundamentals of Engineering Examination  
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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: ELECTRICAL

Name of Institution: Kentucky, University of  
 School Code: 7101  
 PM Examination Selected: ELECTRICAL

	This Institution	State	Nat'l	Comparator Groupings		
	No. Examinees Taking	No. Examinees Passing	% Examinees Passing	318	163	110
	4	5	628	250	114	69
	4	5	461	79%	70%	63%
	100%	100%	73%			

  

	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	Average Percent Correct	Average Percent Correct	Average Percent Correct
	11	45	52	2.0	53	51
	7	57	61	1.7	63	60
	9	58	56	1.8	58	52
	12	69	65	2.1	67	63
	5	30	58	1.4	59	56
	5	40	59	1.2	61	58
	8	34	40	1.6	40	42
	8	66	58	1.5	59	57
	24	81	74	3.7	75	73
	8	44	39	1.5	41	37
	12	38	37	2.0	38	37
	11	45	42	2.0	43	42

AM Subject (1 point each)

CHEMISTRY	11	45	52	2.0	53	51	51
COMPUTERS	7	57	61	1.7	63	60	57
DYNAMICS	9	58	56	1.8	58	52	55
ELECTRICAL CIRCUITS	12	69	65	2.1	67	63	65
ENGINEERING ECON	5	30	58	1.4	59	56	55
ETHICS	5	40	59	1.2	61	58	59
FLUID MECHANICS	8	34	40	1.6	40	42	36
MAT SCI/STR MATTER	8	66	58	1.5	59	57	55
MATHEMATICS	24	81	74	3.7	75	73	72
MECH OF MATERIALS	8	44	39	1.5	41	37	38
STATICS	12	38	37	2.0	38	37	34
THERMODYNAMICS	11	45	42	2.0	43	42	38

PM Subject (2 points each)

ANALOG ELEC CIRCUITS	6	17	34	1.2	36	32	32
CONT SYS THEORY ANAL	6	38	44	1.4	44	44	44
COMP HARDWR ENGINRNG	3	33	39	0.9	40	38	35
COMP & NUM METHODS	3	42	33	0.9	37	31	24
COMP SOFTWR ENGINRNG	3	50	51	0.9	53	49	46
COMM THEORY	6	42	38	1.3	39	36	37
DIGITAL SYSTEMS	6	38	60	1.4	61	59	57
ELECTRO THEORY & APP	6	67	66	1.2	68	61	68
INSTRUMENTATION	3	33	33	0.7	35	29	33
NETWORK ANALYSIS	6	38	34	1.2	34	35	34
POWER SYSTEMS	3	42	31	0.8	33	29	28
SIGNAL PROCESSING	3	58	36	0.9	38	36	36
SOLID ST ELEC & DEV	6	63	55	1.4	58	48	54

National Council of Examiners for Engineering and Surveying (NCEES)  
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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: Kentucky, University of
Board Code: 71	School Code: 7101
Major: MATERIALS	PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	2	2	35	26	6	1
No. Examinees Passing	2	2	28	23	4	1
% Examinees Passing	100%	100%	80%	88%	67%	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	64	51	1.9	54	45	64
COMPUTERS	7	57	50	1.4	51	48	71
DYNAMICS	9	50	51	1.5	53	48	56
ELECTRICAL CIRCUITS	12	50	35	2.2	37	29	67
ENGINEERING ECON	5	70	61	1.1	65	53	60
ETHICS	5	60	54	1.0	55	50	40
FLUID MECHANICS	8	69	45	1.5	50	35	25
MAT SCI/STR MATTER	8	63	53	1.5	54	52	63
MATHEMATICS	24	58	61	3.0	63	60	63
MECH OF MATERIALS	8	50	59	1.7	63	56	38
STATICS	12	50	53	2.2	54	53	67
THERMODYNAMICS	11	55	44	2.1	48	32	36

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	50	41	0.9	44	44	33
COMP & NUM METHODS	6	75	46	1.4	47	42	50
ENVIRONMENTAL ENGR	6	58	60	1.1	62	56	67
HYDRAUL/HYDROLOG SYS	6	67	50	0.9	53	42	33
LEGAL & PROF ASPECTS	3	67	38	0.8	41	22	67
STRUCTURAL ANALYSIS	6	75	53	0.9	55	44	33
STRUCTURAL DESIGN	6	50	46	1.0	49	39	50
SOIL MECH & FOUNDAT	6	33	50	1.1	53	56	50
SURVEYING	6	67	54	1.4	60	36	33
TRANS FACILITIES	6	75	54	1.2	57	50	50
WATER PUR & TREAT	6	58	60	1.1	63	53	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: Kentucky, University of  
School Code: 7101  
PM Examination Selected: GENERAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	16	21	1288	751	237	238
No. Examinees Passing	13	18	1093	654	185	197
% Examinees Passing	81%	86%	85%	87%	78%	83%

	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	57	2.0	59	52	54
COMPUTERS	7	62	61	1.6	63	56	58
DYNAMICS	9	69	68	1.6	69	65	66
ELECTRICAL CIRCUITS	12	51	53	2.2	53	50	53
ENGINEERING ECON	5	54	64	1.3	65	63	59
ETHICS	5	63	61	1.2	62	59	57
FLUID MECHANICS	8	60	58	1.7	59	54	57
MAT SCI/STR MATTER	8	66	67	1.6	68	63	66
MATHEMATICS	24	75	72	3.3	72	71	70
MECH OF MATERIALS	8	66	62	1.6	63	62	61
STATICS	12	54	53	2.3	54	53	52
THERMODYNAMICS	11	53	55	2.1	56	53	55

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	51	40	1.2	39	40	42
CHEMISTRY	5	45	50	1.2	52	44	46
COMPUTERS	3	54	54	0.9	56	51	50
DYNAMICS	5	48	49	1.5	50	45	46
ENGINRING ECONOMICS	3	40	42	0.8	44	40	40
ETHICS	3	88	78	0.7	80	76	75
FLUID MECHANICS	4	58	63	1.1	64	59	61
MATHEMATICS	12	67	68	1.9	69	66	67
MAT SCI/STR MATTER	3	65	71	0.8	72	71	69
MECH OF MATERIALS	4	58	52	1.1	53	50	50
STATICS	6	73	64	1.5	65	64	62
THERMODYNAMICS	6	40	45	1.2	45	44	44

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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: Kentucky, University of
Board Code: 71	School Code: 7101
Major: MECHANICAL	PM Examination Selected: MECHANICAL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	1	3	552	385	113	31
No. Examinees Passing	1	3	471	338	92	25
% Examinees Passing	100%	100%	85%	88%	81%	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	27	56	2.0	58	55	54
COMPUTERS	7	14	63	1.6	65	59	57
DYNAMICS	9	89	69	1.6	70	67	62
ELECTRICAL CIRCUITS	12	67	52	2.3	54	49	51
ENGINEERING ECON	5	60	63	1.2	63	62	68
ETHICS	5	40	59	1.2	59	59	61
FLUID MECHANICS	8	75	59	1.7	61	56	50
MAT SCI/STR MATTER	8	75	65	1.7	67	61	64
MATHEMATICS	24	83	70	3.5	72	66	69
MECH OF MATERIALS	8	88	64	1.6	66	63	58
STATICS	12	50	54	2.3	55	51	49
THERMODYNAMICS	11	55	57	2.1	57	56	53

PM Subject (2 points each)

AUTOMATIC CONTROLS	3	100	54	1.0	56	51	47
COMPUTER	3	67	61	0.9	64	60	48
MECHANICAL DESIGN	6	83	54	1.5	56	50	47
DYNAMIC SYSTEMS	6	83	64	1.3	65	62	66
ENERGY CONVERSION	3	67	43	1.0	45	32	51
FLUID MECHANICS	6	50	54	1.3	54	53	54
FANS/PUMPS & COMPR	3	100	59	1.0	61	57	56
HEAT TRANSFER	6	50	54	1.5	57	47	48
MEASUREMENT & INSTRU	6	50	63	1.4	65	57	61
MATL BEHAV & PROCESS	3	67	64	0.9	66	62	56
REFRIGERATION & HVAC	3	0	45	1.1	47	36	45
STRESS ANALYSIS	6	83	40	1.5	42	37	36
THERMODYNAMICS	6	67	57	1.4	57	54	57

National Council of Examiners for Engineering and Surveying (NCEES)  
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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: Louisville, University of
Board Code: 71	School Code: 7102
Major: CIVIL	PM Examination Selected: CIVIL

	This Institution	State	Nat'l	Comparator Groupings		
No. Examinees Taking	3	23	1684	1170	281	191
No. Examinees Passing	2	20	1364	985	220	136
% Examinees Passing	67%	87%	81%	84%	78%	71%

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

AM Subject (1 point each)

CHEMISTRY	11	52	55	2.0	56	54	50
COMPUTERS	7	57	56	1.5	58	52	51
DYNAMICS	9	41	60	1.7	61	60	56
ELECTRICAL CIRCUITS	12	36	37	2.1	37	40	38
ENGINEERING ECON	5	73	63	1.3	64	64	60
ETHICS	5	60	63	1.1	63	64	62
FLUID MECHANICS	8	38	55	1.8	56	57	49
MAT SCI/STR MATTER	8	38	55	1.7	56	56	53
MATHEMATICS	24	63	64	3.4	66	63	61
MECH OF MATERIALS	8	58	62	1.6	63	62	59
STATICS	12	50	55	2.1	56	54	54
THERMODYNAMICS	11	27	44	2.0	45	43	38

PM Subject (2 points each)

CONSTRUCTION MGMNT	3	33	48	0.9	50	48	42
COMP & NUM METHODS	6	39	49	1.4	51	45	45
ENVIRONMENTAL ENGR	6	39	59	1.3	60	59	57
HYDRAUL/HYDROLOG SYS	6	56	56	1.2	56	56	55
LEGAL & PROF ASPECTS	3	44	44	0.9	44	46	41
STRUCTURAL ANALYSIS	6	72	55	1.3	57	55	51
STRUCTURAL DESIGN	6	39	43	1.1	43	44	40
SOIL MECH & FOUNDAT	6	56	60	1.3	61	57	57
SURVEYING	6	39	62	1.4	62	62	59
TRANS FACILITIES	6	61	57	1.3	58	55	55
WATER PUR & TREAT	6	56	60	1.4	61	62	55

National Council of Examiners for Engineering and Surveying (NCEES)  
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OCTOBER 2003 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	Name of Institution: Louisville, University of
Board Code: 71	School Code: 7102
Major: ELECTRICAL	PM Examination Selected: ELECTRICAL

	This Institution	State	Nat'l	Comparator Groupings		
	No. Examinees Taking	1	5	628	318	163
No. Examinees Passing	1	5	461	250	114	69
% Examinees Passing	100%	100%	73%	79%	70%	63%

	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

AM Subject (1 point each)

CHEMISTRY	11	64	52	2.0	53	51	51
COMPUTERS	7	29	61	1.7	63	60	57
DYNAMICS	9	22	56	1.8	58	52	55
ELECTRICAL CIRCUITS	12	83	65	2.1	67	63	65
ENGINEERING ECON	5	80	58	1.4	59	56	55
ETHICS	5	60	59	1.2	61	58	59
FLUID MECHANICS	8	50	40	1.6	40	42	36
MAT SCI/STR MATTER	8	63	58	1.5	59	57	55
MATHEMATICS	24	88	74	3.7	75	73	72
MECH OF MATERIALS	8	25	39	1.5	41	37	38
STATICS	12	33	37	2.0	38	37	34
THERMODYNAMICS	11	55	42	2.0	43	42	38

PM Subject (2 points each)

ANALOG ELEC CIRCUITS	6	33	34	1.2	36	32	32
CONT SYS THEORY ANAL	6	50	44	1.4	44	44	44
COMP HARDWR ENGINRNG	3	33	39	0.9	40	38	35
COMP & NUM METHODS	3	33	33	0.9	37	31	24
COMP SOFTWR ENGINRNG	3	33	51	0.9	53	49	46
COMM THEORY	6	33	38	1.3	39	36	37
DIGITAL SYSTEMS	6	50	60	1.4	61	59	57
ELECTRO THEORY & APP	6	100	66	1.2	68	61	68
INSTRUMENTATION	3	67	33	0.7	35	29	33
NETWORK ANALYSIS	6	33	34	1.2	34	35	34
POWER SYSTEMS	3	100	31	0.8	33	29	28
SIGNAL PROCESSING	3	67	36	0.9	38	36	36
SOLID ST ELEC & DEV	6	50	55	1.4	58	48	54







National Council of Examiners for Engineering and Surveying (NCEES)  
 Fundamentals of Engineering Examination  
 OCTOBER 2003 Administration

Report 5A  
 Subject Matter Report by Major/All Majors Combined  
 Including State and National Norms for Each  
 Based On Particular PM Examination Selected

ABET Accredited Engineering Technology Program  
 Examinees Currently Enrolled in School

Board: KENTUCKY  
 Major: CIVIL

Name of Institution: Western Kentucky University  
 PM Examination Selected: GENERAL

	---Specified Major Only---			--All Majors Combined--		
	School Code	State	Nat'l	School Code	State	Nat'l
No. Examinees Taking	4	4	18	4	4	75
No. Examinees Passing	4	4	12	4	4	43
% Examinees Passing	100%	100%	67%	100%	100%	57%

	School Code	State Average Percent Correct	Nat'l Average Percent Correct	School Code	State Average Percent Correct	Nat'l Average Percent Correct
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AM Subject (1 point each)

CHEMISTRY	11	55	55	44	55	55	46
COMPUTERS	7	68	68	52	68	68	47
DYNAMICS	9	58	58	52	58	58	56
ELECTRICAL CIRCUITS	12	48	48	36	48	48	44
ENGINEERING ECON	5	60	60	61	60	60	56
ETHICS	5	65	65	63	65	65	63
FLUID MECHANICS	8	59	59	50	59	59	49
MAT SCI/STR MATTER	8	53	53	42	53	53	52
MATHEMATICS	24	80	80	63	80	80	56
MECH OF MATERIALS	8	78	78	56	78	78	55
STATICS	12	56	56	49	56	56	43
THERMODYNAMICS	11	50	50	43	50	50	44

PM Subject (2 points each)

ELECTRICAL CIRCUITS	6	25	25	31	25	25	31
CHEMISTRY	5	50	50	46	50	50	41
COMPUTERS	3	50	50	44	50	50	39
DYNAMICS	5	60	60	36	60	60	34
ENGINRING ECONOMICS	3	58	58	52	58	58	37
ETHICS	3	58	58	63	58	58	71
FLUID MECHANICS	4	81	81	53	81	81	50
MATHEMATICS	12	71	71	57	71	71	58
MAT SCI/STR MATTER	3	42	42	46	42	42	61
MECH OF MATERIALS	4	56	56	36	56	56	41
STATICS	6	92	92	64	92	92	57
THERMODYNAMICS	6	58	58	41	58	58	37