

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Chemical**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **FE - Chemical**

	*Institution	National		Carnegie Comparator	
Examinees Taking	2	294		74	
Examinees Passing	1	231		56	
Examinees Passing %	50	79		76	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	68	68	3.2	65
Engineering Probability & Statistics	8	69	77	1.6	74
Chemistry	11	82	80	1.6	79
Computers	8	81	77	1.4	76
Ethics & Business Practices	8	88	82	1.3	84
Engineering Economics	10	70	67	2.1	66
Engineering Mechanics (Statics)	8	38	50	1.7	49
Engineering Mechanics (Dynamics)	5	50	55	1.2	50
Strength of Materials	8	50	39	1.4	40
Material Properties	8	69	62	1.7	61
Fluid Mechanics	8	56	65	1.8	63
Electricity & Magnetism	11	59	48	2.5	48
Thermodynamics	8	63	61	2.0	57

PM Subject

Chemistry PM	6	75	79	1.2	77
Material-Energy Balances	9	56	64	1.9	65
Chemical Engineering Thermodynamics	6	42	53	1.4	53
Fluid Dynamics	6	25	51	1.5	52
Heat Transfer	6	42	58	1.5	58
Mass Transfer	6	42	60	1.5	60
Chemical Reaction Engineering	6	42	52	1.3	54
Process Design & Economic Optimization	6	50	65	1.4	64
Computer Usage in Chemical Engineering	3	0	60	0.8	58
Process control	3	100	77	0.7	78
Safety & Health & Environmental	3	50	77	0.7	77

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Graduates	Engineering		
Subject Matter Report by Major and PM Examination			
Board Code:	71	Institution:	University of Kentucky, Lexington
Major	Civil	School Code:	7101
		PM Exam	FE - Civil

	*Institution	National	Carnegie Comparator
Examinees Taking	6	1,529	363
Examinees Passing	4	712	175
Examinees Passing %	67	47	48
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	55	53	3.2	52
Engineering Probability & Statistics	8	60	66	1.6	68
Chemistry	11	56	49	2.2	50
Computers	8	63	60	1.6	59
Ethics & Business Practices	8	83	81	1.2	82
Engineering Economics	10	47	55	2.0	55
Engineering Mechanics (Statics)	8	63	58	1.7	58
Engineering Mechanics (Dynamics)	5	50	50	1.2	50
Strength of Materials	8	40	47	1.8	45
Material Properties	8	46	47	1.6	48
Fluid Mechanics	8	56	47	1.9	49
Electricity & Magnetism	11	44	34	2.2	33
Thermodynamics	8	50	38	1.7	39

PM Subject

Surveying	7	67	61	1.4	61
Hydraulics & Hydrologic Systems	7	48	54	1.5	55
Soil Mechanics & Foundations	9	61	57	1.9	55
Environmental Engineering	7	36	38	1.4	38
Transportation	7	40	50	1.4	50
Structural Analysis	6	42	50	1.3	50
Structural Design	6	36	41	1.3	40
Construction Management	6	69	62	1.2	63
Materials	5	70	56	1.2	58

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NCEES
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 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Other Disciplines
Board Code: Major	71 Civil		

	*Institution	National	Carnegie Comparator	
Examinees Taking	2	603	124	
Examinees Passing	1	179	44	
Examinees Passing %	50	30	35	
	# Exam Questions	Institution AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	71	53	3.0	54
Engineering Probability & Statistics	8	56	63	1.7	63
Chemistry	11	50	44	2.1	46
Computers	8	50	57	1.6	57
Ethics & Business Practices	8	94	78	1.4	81
Engineering Economics	10	55	55	2.0	56
Engineering Mechanics (Statics)	8	56	54	1.7	54
Engineering Mechanics (Dynamics)	5	80	50	1.2	50
Strength of Materials	8	63	42	1.6	42
Material Properties	8	44	43	1.6	48
Fluid Mechanics	8	63	47	1.8	50
Electricity & Magnetism	11	32	37	2.2	38
Thermodynamics	8	31	38	1.6	37

PM Subject

Advanced Engineering Mathematics	6	50	48	1.2	50
Engineering Probability & Statistics PM	5	50	55	1.1	58
Biology	3	17	38	0.8	42
Engineering Economics PM	6	50	51	1.4	55
Application of Engineering Mechanics	8	38	31	1.4	33
Engineering of Materials	7	57	50	1.4	51
Fluids	9	50	47	1.7	47
Electricity & Magnetism PM	7	29	30	1.1	33
Thermodynamics & Heat Transfer	9	67	42	1.5	43

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Graduates	Engineering		
Subject Matter Report by Major and PM Examination			
Board Code:	71	Institution:	University of Kentucky, Lexington
Major	Electrical	School Code:	7101
		PM Exam	FE - Electrical

	*Institution	National	Carnegie Comparator
Examinees Taking	8	885	241
Examinees Passing	4	447	131
Examinees Passing %	50	51	54

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Mathematics	19	58	62	3.2	63
Engineering Probability & Statistics	8	75	69	1.7	69
Chemistry	11	69	52	2.2	53
Computers	8	80	76	1.5	76
Ethics & Business Practices	8	89	81	1.3	84
Engineering Economics	10	51	54	2.1	56
Engineering Mechanics (Statics)	8	36	44	1.6	47
Engineering Mechanics (Dynamics)	5	45	49	1.2	50
Strength of Materials	8	34	33	1.4	34
Material Properties	8	64	51	1.6	54
Fluid Mechanics	8	33	39	1.8	38
Electricity & Magnetism	11	73	67	2.3	68
Thermodynamics	8	36	40	1.7	40

PM Subject

Circuits	10	51	51	2.2	51
Power	8	63	56	1.9	59
Electromagnetics	4	50	46	1.1	50
Control Systems	6	44	43	1.3	44
Communications	5	25	29	1.0	32
Signal Processing	5	28	42	1.2	43
Electronics	9	46	46	1.9	45
Digital Systems	7	55	51	1.6	50
Computer Systems	6	52	56	1.3	56

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Fundamentals of Engineering Examination
 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Other Disciplines
Board Code: Major	71 Electrical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	319	71		
Examinees Passing	1	125	34		
Examinees Passing %	100	39	48		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	74	57	3.1	62
Engineering Probability & Statistics	8	88	66	1.7	73
Chemistry	11	55	48	2.2	52
Computers	8	100	71	1.6	76
Ethics & Business Practices	8	88	79	1.3	82
Engineering Economics	10	90	56	2.1	60
Engineering Mechanics (Statics)	8	88	44	1.7	46
Engineering Mechanics (Dynamics)	5	60	48	1.3	53
Strength of Materials	8	50	33	1.5	33
Material Properties	8	88	47	1.6	51
Fluid Mechanics	8	88	40	1.8	41
Electricity & Magnetism	11	82	60	2.4	64
Thermodynamics	8	88	39	1.8	42

PM Subject

Advanced Engineering Mathematics	6	50	50	1.2	51
Engineering Probability & Statistics PM	5	80	56	1.2	61
Biology	3	33	40	0.8	39
Engineering Economics PM	6	67	49	1.5	55
Application of Engineering Mechanics	8	25	31	1.4	34
Engineering of Materials	7	86	46	1.4	49
Fluids	9	67	42	2.0	44
Electricity & Magnetism PM	7	86	50	1.6	54
Thermodynamics & Heat Transfer	9	67	43	1.6	43

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Fundamentals of Engineering Examination
 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Other Disciplines
Board Code: Major	71 Materials		

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	19	4		
Examinees Passing	1	18	4		
Examinees Passing %	100	95	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	68	74	2.5	78
Engineering Probability & Statistics	8	75	88	1.1	88
Chemistry	11	55	73	1.8	70
Computers	8	75	78	1.4	84
Ethics & Business Practices	8	75	84	1.1	84
Engineering Economics	10	90	70	2.0	78
Engineering Mechanics (Statics)	8	75	64	1.7	59
Engineering Mechanics (Dynamics)	5	40	68	1.2	65
Strength of Materials	8	50	53	1.7	59
Material Properties	8	75	82	1.1	84
Fluid Mechanics	8	50	63	1.8	72
Electricity & Magnetism	11	45	62	2.2	45
Thermodynamics	8	75	61	1.6	59

PM Subject

Advanced Engineering Mathematics	6	67	63	1.4	62
Engineering Probability & Statistics PM	5	60	65	0.9	60
Biology	3	33	65	0.8	58
Engineering Economics PM	6	83	66	1.3	79
Application of Engineering Mechanics	8	38	44	1.7	44
Engineering of Materials	7	86	68	1.4	75
Fluids	9	56	60	2.1	58
Electricity & Magnetism PM	7	29	50	1.8	43
Thermodynamics & Heat Transfer	9	56	57	2.1	56

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 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Mechanical
Board Code: Major	71 Mechanical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	952	251		
Examinees Passing	3	690	169		
Examinees Passing %	75	72	67		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	68	67	3.3	63
Engineering Probability & Statistics	8	69	75	1.5	71
Chemistry	11	43	58	2.2	56
Computers	8	63	73	1.5	71
Ethics & Business Practices	8	75	84	1.2	83
Engineering Economics	10	58	60	2.2	58
Engineering Mechanics (Statics)	8	56	64	1.8	62
Engineering Mechanics (Dynamics)	5	70	61	1.1	57
Strength of Materials	8	69	58	1.8	56
Material Properties	8	69	67	1.7	65
Fluid Mechanics	8	63	62	1.9	60
Electricity & Magnetism	11	43	51	2.6	47
Thermodynamics	8	66	56	1.9	55

PM Subject

Mechanical Design & Analysis	9	64	65	1.8	63
Kinematics & Dynamics & Vibrations	9	56	61	1.8	56
Materials & Processing	6	58	64	1.3	63
Measurements & Instrumentation & Controls	6	42	46	1.3	44
Thermodynamics & Energy Conversion Processes	9	58	55	1.9	52
Fluid Mechanics & Fluid Machinery	9	69	57	2.0	56
Heat Transfer	6	37	55	1.6	54
Refrigeration & HVAC	6	58	48	1.3	46

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Other Disciplines
Board Code: Major	71 Mechanical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	5	460	98		
Examinees Passing	5	283	72		
Examinees Passing %	100	62	73		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	77	62	3.1	67
Engineering Probability & Statistics	8	80	71	1.7	77
Chemistry	11	65	52	2.2	55
Computers	8	73	67	1.6	71
Ethics & Business Practices	8	63	82	1.3	82
Engineering Economics	10	58	58	2.2	62
Engineering Mechanics (Statics)	8	93	59	1.8	59
Engineering Mechanics (Dynamics)	5	68	56	1.3	62
Strength of Materials	8	70	49	1.7	51
Material Properties	8	63	60	1.7	62
Fluid Mechanics	8	65	57	1.9	62
Electricity & Magnetism	11	64	49	2.6	53
Thermodynamics	8	58	52	1.9	53

PM Subject

Advanced Engineering Mathematics	6	60	54	1.3	56
Engineering Probability & Statistics PM	5	72	62	1.2	64
Biology	3	53	45	0.8	46
Engineering Economics PM	6	57	58	1.5	59
Application of Engineering Mechanics	8	58	41	1.5	44
Engineering of Materials	7	69	61	1.5	64
Fluids	9	51	59	1.8	61
Electricity & Magnetism PM	7	40	41	1.6	46
Thermodynamics & Heat Transfer	9	76	52	1.8	55

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 FE - Other Disciplines
Board Code: Major	71 Mining/Mineral		

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	14	10		
Examinees Passing	2	5	5		
Examinees Passing %	50	36	50		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	61	58	2.6	61
Engineering Probability & Statistics	8	75	66	1.9	70
Chemistry	11	45	49	1.2	48
Computers	8	66	63	1.1	66
Ethics & Business Practices	8	84	84	0.9	85
Engineering Economics	10	50	54	2.3	58
Engineering Mechanics (Statics)	8	47	44	1.9	49
Engineering Mechanics (Dynamics)	5	40	53	1.4	52
Strength of Materials	8	41	38	1.6	41
Material Properties	8	56	55	1.5	58
Fluid Mechanics	8	50	52	2.0	55
Electricity & Magnetism	11	34	40	2.3	46
Thermodynamics	8	38	45	1.9	44

PM Subject

Advanced Engineering Mathematics	6	42	45	1.3	50
Engineering Probability & Statistics PM	5	75	61	1.1	68
Biology	3	50	45	0.8	50
Engineering Economics PM	6	54	65	1.3	65
Application of Engineering Mechanics	8	28	33	1.0	31
Engineering of Materials	7	68	54	1.1	60
Fluids	9	61	53	1.6	58
Electricity & Magnetism PM	7	7	30	1.8	29
Thermodynamics & Heat Transfer	9	50	44	1.1	47

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