

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Graduate of	Engineering		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Agricultural	PM Exam:	FE-Other
	*Institution	National	Carnegie Comparator

Examinees Taking	1	29	19
Examinees Passing	1	18	12
Examinees Passing %	100	62	63

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	37	56	3.1	55
Engineering Probability and Statistics	8	62	61	1.7	60
Chemistry	11	64	71	1.8	76
Computers	8	75	70	1.3	72
Ethics and Business Practices	8	75	78	1.2	85
Engineering Economics	10	60	60	2.1	58
Engineering Mechanics (Statics)	8	62	63	1.9	61
Engineering Mechanics (Dynamics)	5	40	62	1.2	60
Strength of Materials	8	38	49	2.0	49
Material Properties	8	75	59	1.6	54
Fluid Mechanics	8	75	62	2.0	60
Electricity and Magnetism	11	45	56	2.3	59
Thermodynamics	8	50	45	2.1	47

PM Subject					
Advanced Engineering Mathematics	6	83	60	1.3	60
Engineering Probability and Statistics	5	80	62	1.1	64
Biology	3	33	64	0.9	70
Engineering Economics	6	50	52	1.4	50
Application of Engineering Mechanics	8	38	46	1.3	45
Engineering of Materials	7	57	55	1.4	55
Fluids	9	78	67	2.0	68
Electricity and Magnetism	7	71	44	1.4	48
Thermodynamics and Heat Transfer	9	22	36	1.9	36

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Graduate of	Engineering			
Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Chemical	PM Exam:	FE-Chemical	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	231	56
Examinees Passing	1	179	40
Examinees Passing %	100	77	71

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	53	64	3.5	59
Engineering Probability and Statistics	8	62	66	1.6	65
Chemistry	11	91	85	1.5	84
Computers	8	75	76	1.5	76
Ethics and Business Practices	8	100	79	1.4	80
Engineering Economics	10	100	63	2.2	65
Engineering Mechanics (Statics)	8	25	57	2.0	56
Engineering Mechanics (Dynamics)	5	80	65	1.3	65
Strength of Materials	8	50	39	1.6	37
Material Properties	8	50	65	1.4	65
Fluid Mechanics	8	50	71	1.8	71
Electricity and Magnetism	11	55	50	2.5	48
Thermodynamics	8	62	53	1.8	53

PM Subject					
Chemistry	6	33	55	1.3	57
Material / Energy Balances	9	56	66	2.1	65
Chemical Engineering Thermodynamics	6	50	60	1.3	54
Fluid Dynamics	6	67	76	1.2	76
Heat Transfer	6	67	72	1.2	70
Mass Transfer	6	0	43	1.4	42
Chemical Reaction Engineering	6	67	65	1.5	62
Process Design and Economic Optimization	6	67	67	1.3	63
Computer Usage and Chemical Engineering	3	67	63	0.9	55
Process Control	3	0	35	0.9	30
Safety, Health, and Environmental	3	100	80	0.7	83

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Civil	PM Exam:	FE-Chemical	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	1	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	37	37	0.0	37
Engineering Probability and Statistics	8	50	50	0.0	50
Chemistry	11	82	82	0.0	82
Computers	8	62	62	0.0	62
Ethics and Business Practices	8	88	88	0.0	88
Engineering Economics	10	60	60	0.0	60
Engineering Mechanics (Statics)	8	50	50	0.0	50
Engineering Mechanics (Dynamics)	5	20	20	0.0	20
Strength of Materials	8	12	12	0.0	12
Material Properties	8	50	50	0.0	50
Fluid Mechanics	8	38	38	0.0	38
Electricity and Magnetism	11	27	27	0.0	27
Thermodynamics	8	0	0	0.0	0

PM Subject					
Chemistry	6	0	0	0.0	0
Material / Energy Balances	9	22	22	0.0	22
Chemical Engineering Thermodynamics	6	33	33	0.0	33
Fluid Dynamics	6	50	50	0.0	50
Heat Transfer	6	50	50	0.0	50
Mass Transfer	6	33	33	0.0	33
Chemical Reaction Engineering	6	17	17	0.0	17
Process Design and Economic Optimization	6	17	17	0.0	17
Computer Usage and Chemical Engineering	3	0	0	0.0	0
Process Control	3	0	0	0.0	0
Safety, Health, and Environmental	3	33	33	0.0	33

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Civil	PM Exam:	FE-Civil	
	*Institution	National	Carnegie Comparator	

Examinees Taking	11	1,549	409
Examinees Passing	7	652	197
Examinees Passing %	64	42	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	58	49	3.4	49
Engineering Probability and Statistics	8	62	54	1.7	55
Chemistry	11	74	65	2.1	66
Computers	8	78	61	1.7	62
Ethics and Business Practices	8	73	75	1.6	78
Engineering Economics	10	49	52	2.2	53
Engineering Mechanics (Statics)	8	70	62	1.8	62
Engineering Mechanics (Dynamics)	5	64	55	1.3	54
Strength of Materials	8	56	48	1.7	48
Material Properties	8	66	55	1.5	57
Fluid Mechanics	8	58	50	2.0	51
Electricity and Magnetism	11	35	39	1.9	39
Thermodynamics	8	26	32	1.3	31

PM Subject					
Surveying	7	47	42	1.4	43
Hydraulics and Hydrologic Systems	7	53	48	1.5	49
Soil Mechanics and Foundations	9	53	46	1.9	46
Environmental Engineering	7	65	55	1.3	57
Transportation	7	49	52	1.4	53
Structural Analysis	6	61	52	1.3	52
Structural Design	6	58	44	1.3	45
Construction Management	6	59	57	1.3	59
Materials	5	56	50	1.2	52

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Civil	PM Exam:	FE-Other	
	*Institution	National	Carnegie Comparator	

Examinees Taking	4	1,249	271
Examinees Passing	1	455	120
Examinees Passing %	25	36	44

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	61	55	3.6	56
Engineering Probability and Statistics	8	66	57	1.7	58
Chemistry	11	59	64	2.0	66
Computers	8	68	59	1.7	60
Ethics and Business Practices	8	78	71	1.7	72
Engineering Economics	10	55	55	2.1	57
Engineering Mechanics (Statics)	8	50	60	1.9	63
Engineering Mechanics (Dynamics)	5	65	54	1.3	56
Strength of Materials	8	31	46	1.7	47
Material Properties	8	60	53	1.6	54
Fluid Mechanics	8	34	49	2.0	51
Electricity and Magnetism	11	45	41	2.1	41
Thermodynamics	8	34	35	1.5	34

PM Subject					
Advanced Engineering Mathematics	6	54	58	1.2	58
Engineering Probability and Statistics	5	50	56	1.1	59
Biology	3	50	53	0.8	55
Engineering Economics	6	54	44	1.4	48
Application of Engineering Mechanics	8	34	45	1.5	44
Engineering of Materials	7	54	48	1.6	48
Fluids	9	53	54	1.9	55
Electricity and Magnetism	7	32	38	1.4	38
Thermodynamics and Heat Transfer	9	47	31	1.5	31

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Electrical	PM Exam:	FE-Electrical	
	*Institution	National	Carnegie Comparator	

Examinees Taking	6	963	245
Examinees Passing	5	510	137
Examinees Passing %	83	53	56

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	70	60	3.5	63
Engineering Probability and Statistics	8	77	59	1.8	61
Chemistry	11	82	69	2.1	71
Computers	8	92	74	1.7	76
Ethics and Business Practices	8	88	73	1.6	76
Engineering Economics	10	65	54	2.2	56
Engineering Mechanics (Statics)	8	63	52	1.9	54
Engineering Mechanics (Dynamics)	5	37	56	1.4	58
Strength of Materials	8	42	35	1.4	37
Material Properties	8	69	53	1.7	55
Fluid Mechanics	8	54	41	1.8	42
Electricity and Magnetism	11	73	69	2.3	71
Thermodynamics	8	31	34	1.5	36

PM Subject					
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Circuits	10	63	58	2.0	60
Power	8	52	49	1.7	52
Electromagnetics	4	46	43	0.9	45
Control Systems	6	44	48	1.6	51
Communications	5	63	53	1.2	55
Signal Processing	5	63	49	1.4	51
Electronics	9	61	58	1.9	60
Digital Systems	7	52	49	1.9	51
Computer Systems	6	42	40	1.5	41

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Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Electrical	PM Exam:	FE-Other
	*Institution	National	Carnegie Comparator

Examinees Taking	2	543	119
Examinees Passing	1	209	57
Examinees Passing %	50	38	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	68	57	3.5	60
Engineering Probability and Statistics	8	75	58	1.7	61
Chemistry	11	78	65	2.2	69
Computers	8	62	67	1.8	72
Ethics and Business Practices	8	63	72	1.7	72
Engineering Economics	10	40	53	2.3	53
Engineering Mechanics (Statics)	8	56	48	1.9	51
Engineering Mechanics (Dynamics)	5	70	54	1.4	57
Strength of Materials	8	38	38	1.5	40
Material Properties	8	56	51	1.6	51
Fluid Mechanics	8	56	41	1.9	44
Electricity and Magnetism	11	78	62	2.3	64
Thermodynamics	8	25	36	1.5	37

PM Subject					
Advanced Engineering Mathematics	6	67	58	1.2	59
Engineering Probability and Statistics	5	60	58	1.1	61
Biology	3	66	53	0.8	54
Engineering Economics	6	58	45	1.5	44
Application of Engineering Mechanics	8	31	36	1.4	36
Engineering of Materials	7	28	43	1.6	46
Fluids	9	56	48	1.8	50
Electricity and Magnetism	7	64	54	1.4	56
Thermodynamics and Heat Transfer	9	22	33	1.6	33

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Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Environmental	PM Exam:	FE-Other	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	73	15
Examinees Passing	0	39	6
Examinees Passing %	0	53	40

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	53	60	4.1	49
Engineering Probability and Statistics	8	75	66	1.7	61
Chemistry	11	64	80	1.9	83
Computers	8	62	70	1.7	62
Ethics and Business Practices	8	50	74	1.7	68
Engineering Economics	10	60	60	2.3	57
Engineering Mechanics (Statics)	8	62	61	2.3	47
Engineering Mechanics (Dynamics)	5	80	66	1.4	61
Strength of Materials	8	25	46	1.6	38
Material Properties	8	50	58	1.5	62
Fluid Mechanics	8	12	61	2.0	47
Electricity and Magnetism	11	45	51	2.7	40
Thermodynamics	8	38	46	2.0	38

PM Subject					
Advanced Engineering Mathematics	6	33	61	1.4	53
Engineering Probability and Statistics	5	60	65	1.1	57
Biology	3	0	64	0.9	60
Engineering Economics	6	50	54	1.6	49
Application of Engineering Mechanics	8	25	42	1.6	38
Engineering of Materials	7	14	53	1.8	44
Fluids	9	22	66	1.9	57
Electricity and Magnetism	7	43	45	1.4	43
Thermodynamics and Heat Transfer	9	22	44	2.1	38

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Graduate of	Engineering			
Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	General Engineering	PM Exam:	FE-Environmental	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	3	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	37	28	1.5	37
Engineering Probability and Statistics	8	25	21	0.6	25
Chemistry	11	36	54	2.6	36
Computers	8	62	50	1.7	62
Ethics and Business Practices	8	50	75	2.0	50
Engineering Economics	10	70	47	2.1	70
Engineering Mechanics (Statics)	8	50	50	1.0	50
Engineering Mechanics (Dynamics)	5	40	60	1.0	40
Strength of Materials	8	12	25	1.7	12
Material Properties	8	62	54	0.6	62
Fluid Mechanics	8	75	50	2.6	75
Electricity and Magnetism	11	18	30	1.5	18
Thermodynamics	8	38	29	0.6	38

PM Subject					
Water Resources	15	53	46	1.7	53
Water and Wastewater Engineering	18	50	37	2.5	50
Air Quality Engineering	9	33	37	0.6	33
Solid and Hazardous Waste Engineering	9	11	26	1.2	11
Environmental Science and Management	9	56	41	2.3	56

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Board Code:	71	School Code:	7101
Major:	General Engineering	PM Exam:	FE-Other
	*Institution	National	Carnegie Comparator

Examinees Taking	1	79	14
Examinees Passing	1	48	7
Examinees Passing %	100	61	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	63	65	4.5	64
Engineering Probability and Statistics	8	50	61	1.9	53
Chemistry	11	91	72	2.5	64
Computers	8	62	73	1.6	72
Ethics and Business Practices	8	100	74	1.8	76
Engineering Economics	10	70	57	2.4	49
Engineering Mechanics (Statics)	8	88	71	2.1	70
Engineering Mechanics (Dynamics)	5	100	66	1.5	65
Strength of Materials	8	50	53	1.9	54
Material Properties	8	62	61	1.4	56
Fluid Mechanics	8	88	65	2.0	67
Electricity and Magnetism	11	64	52	2.6	50
Thermodynamics	8	62	41	1.8	41

PM Subject					
Advanced Engineering Mathematics	6	50	63	1.4	58
Engineering Probability and Statistics	5	80	66	1.2	66
Biology	3	100	55	0.9	49
Engineering Economics	6	50	46	1.6	44
Application of Engineering Mechanics	8	38	50	1.8	47
Engineering of Materials	7	29	55	1.9	55
Fluids	9	78	64	1.7	65
Electricity and Magnetism	7	43	51	1.5	45
Thermodynamics and Heat Transfer	9	56	44	1.9	43

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Mechanical	PM Exam:	FE-Mechanical	
	*Institution	National	Carnegie Comparator	

Examinees Taking	2	644	171
Examinees Passing	2	456	127
Examinees Passing %	100	71	74

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	68	62	3.6	63
Engineering Probability and Statistics	8	62	61	1.7	59
Chemistry	11	54	74	2.1	74
Computers	8	81	76	1.6	78
Ethics and Business Practices	8	88	76	1.5	79
Engineering Economics	10	60	58	2.3	57
Engineering Mechanics (Statics)	8	88	77	1.7	77
Engineering Mechanics (Dynamics)	5	80	72	1.3	72
Strength of Materials	8	75	56	1.8	56
Material Properties	8	82	66	1.5	66
Fluid Mechanics	8	82	68	2.0	66
Electricity and Magnetism	11	64	54	2.6	52
Thermodynamics	8	56	45	1.8	44

PM Subject					
Mechanical Design and Analysis	9	72	55	1.8	54
Kinematics, Dynamics, and Vibrations	9	72	58	2.0	59
Materials and Processing	6	92	60	1.5	62
Measurements, Instrumentation, and Controls	6	67	44	1.4	42
Thermodynamics and Energy Conversion Processes	9	78	55	2.0	55
Fluid Mechanics and Fluid Machinery	9	94	60	1.8	59
Heat Transfer	6	75	58	1.4	58
Refrigeration and HVAC	6	58	43	1.5	44

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Mechanical	PM Exam:	FE-Other
	*Institution	National	Carnegie Comparator

Examinees Taking	3	1,180	254
Examinees Passing	3	780	175
Examinees Passing %	100	66	69

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	68	61	3.6	62
Engineering Probability and Statistics	8	62	61	1.7	63
Chemistry	11	64	72	2.1	73
Computers	8	75	71	1.7	72
Ethics and Business Practices	8	88	74	1.6	76
Engineering Economics	10	53	57	2.2	61
Engineering Mechanics (Statics)	8	92	71	1.9	72
Engineering Mechanics (Dynamics)	5	87	67	1.4	68
Strength of Materials	8	58	52	1.7	51
Material Properties	8	83	64	1.6	65
Fluid Mechanics	8	71	65	2.0	64
Electricity and Magnetism	11	36	51	2.5	50
Thermodynamics	8	38	44	1.8	44

PM Subject					
Advanced Engineering Mathematics	6	56	63	1.3	62
Engineering Probability and Statistics	5	67	64	1.2	64
Biology	3	56	59	0.8	61
Engineering Economics	6	56	49	1.4	50
Application of Engineering Mechanics	8	54	52	1.7	52
Engineering of Materials	7	48	59	1.6	59
Fluids	9	67	66	1.8	66
Electricity and Magnetism	7	67	50	1.5	49
Thermodynamics and Heat Transfer	9	52	45	1.9	45

* 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 Guess

** The standard deviation above is based on number of questions correct not percentage of questions correct.

*** Indicates schools in your Carnegie classification, see www.carnegiefoundation.org

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NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

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

Examinees Taking	1	18	9
Examinees Passing	0	11	6
Examinees Passing %	0	61	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	37	56	3.0	56
Engineering Probability and Statistics	8	88	64	1.7	60
Chemistry	11	64	70	2.1	62
Computers	8	75	72	1.4	72
Ethics and Business Practices	8	88	84	1.1	88
Engineering Economics	10	70	67	2.0	69
Engineering Mechanics (Statics)	8	38	58	1.6	54
Engineering Mechanics (Dynamics)	5	60	59	1.6	56
Strength of Materials	8	12	38	1.8	29
Material Properties	8	50	58	1.7	56
Fluid Mechanics	8	25	58	2.1	49
Electricity and Magnetism	11	64	44	2.4	39
Thermodynamics	8	38	40	1.2	38

PM Subject					
Advanced Engineering Mathematics	6	17	59	1.3	54
Engineering Probability and Statistics	5	80	68	1.0	69
Biology	3	67	67	1.0	70
Engineering Economics	6	17	46	1.2	39
Application of Engineering Mechanics	8	50	43	1.5	35
Engineering of Materials	7	71	53	1.0	54
Fluids	9	44	66	1.7	66
Electricity and Magnetism	7	0	47	1.5	40
Thermodynamics and Heat Transfer	9	44	38	1.5	32

* 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 Guess

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