

**NCEES**  
**Fundamentals of Engineering Examination**  
 ABET - Accredited Programs

Currently Enrolled **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	2	122	51
Examinees Passing	2	102	41
Examinees Passing %	100	84	80

	# 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	61	60	3.3	59
Engineering Probability and Statistics	8	56	64	1.7	65
Chemistry	11	78	79	1.8	78
Computers	8	100	74	1.5	76
Ethics and Business Practices	8	94	78	1.3	78
Engineering Economics	10	80	63	2.1	61
Engineering Mechanics (Statics)	8	81	78	1.4	77
Engineering Mechanics (Dynamics)	5	90	76	1.1	76
Strength of Materials	8	37	54	1.7	54
Material Properties	8	75	68	1.2	69
Fluid Mechanics	8	81	73	1.6	72
Electricity and Magnetism	11	50	58	2.1	56
Thermodynamics	8	38	43	1.5	43

**PM Subject**

Advanced Engineering Mathematics	6	84	63	1.2	62
Engineering Probability and Statistics	5	70	66	1.0	62
Biology	3	66	66	0.9	69
Engineering Economics	6	75	53	1.4	52
Application of Engineering Mechanics	8	50	52	1.5	53
Engineering of Materials	7	72	60	1.5	61
Fluids	9	72	74	1.5	73
Electricity and Magnetism	7	64	57	1.4	54
Thermodynamics and Heat Transfer	9	50	48	2.0	46

\* 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.

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**NCEES**  
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Currently Enrolled **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	9	968	257
Examinees Passing	9	840	218
Examinees Passing %	100	87	85

	# 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	70	65	3.3	63
Engineering Probability and Statistics	8	56	65	1.6	61
Chemistry	11	89	89	1.3	88
Computers	8	71	76	1.4	74
Ethics and Business Practices	8	89	76	1.5	77
Engineering Economics	10	86	66	2.1	68
Engineering Mechanics (Statics)	8	50	58	1.8	55
Engineering Mechanics (Dynamics)	5	60	68	1.2	65
Strength of Materials	8	35	39	1.4	39
Material Properties	8	68	65	1.4	64
Fluid Mechanics	8	81	71	1.7	72
Electricity and Magnetism	11	55	55	2.2	54
Thermodynamics	8	53	54	1.8	53

**PM Subject**

Chemistry	6	65	58	1.2	58
Material / Energy Balances	9	71	72	1.7	70
Chemical Engineering Thermodynamics	6	54	62	1.2	59
Fluid Dynamics	6	91	79	1.1	77
Heat Transfer	6	76	74	1.2	72
Mass Transfer	6	37	47	1.3	47
Chemical Reaction Engineering	6	68	68	1.4	66
Process Design and Economic Optimization	6	70	70	1.2	72
Computer Usage and Chemical Engineering	3	71	67	0.8	64
Process Control	3	26	35	0.8	35
Safety, Health, and Environmental	3	78	81	0.7	81

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Currently Enrolled **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-Other**

\*Institution                      National                      Carnegie Comparator

Examinees Taking	1	59	10
Examinees Passing	0	45	8
Examinees Passing %	0	76	80

	# 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	53	69	3.3	72
Engineering Probability and Statistics	8	62	65	1.6	80
Chemistry	11	82	86	1.6	85
Computers	8	88	74	1.7	83
Ethics and Business Practices	8	62	70	1.6	66
Engineering Economics	10	50	58	2.3	60
Engineering Mechanics (Statics)	8	25	63	2.2	55
Engineering Mechanics (Dynamics)	5	40	71	1.3	66
Strength of Materials	8	38	39	1.4	39
Material Properties	8	62	61	1.5	61
Fluid Mechanics	8	38	68	2.0	55
Electricity and Magnetism	11	45	55	2.2	52
Thermodynamics	8	25	51	2.1	41

**PM Subject**

Advanced Engineering Mathematics	6	67	71	1.3	78
Engineering Probability and Statistics	5	80	69	1.3	88
Biology	3	33	66	0.8	64
Engineering Economics	6	33	54	1.5	52
Application of Engineering Mechanics	8	25	38	1.7	40
Engineering of Materials	7	57	63	1.8	58
Fluids	9	33	70	1.8	74
Electricity and Magnetism	7	29	49	1.5	58
Thermodynamics and Heat Transfer	9	33	54	1.9	57

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Currently Enrolled	<b>Engineering</b>			
Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	<b>Civil</b>	PM Exam:	<b>FE-Civil</b>	
	*Institution	National	Carnegie Comparator	

Examinees Taking	25	4,989	1,628
Examinees Passing	22	3,735	1,280
Examinees Passing %	88	75	79

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
<b>AM Subject</b>					
Mathematics	19	63	58	3.3	59
Engineering Probability and Statistics	8	64	62	1.6	63
Chemistry	11	78	76	1.8	77
Computers	8	68	69	1.5	70
Ethics and Business Practices	8	80	78	1.4	80
Engineering Economics	10	52	61	2.2	62
Engineering Mechanics (Statics)	8	78	74	1.6	76
Engineering Mechanics (Dynamics)	5	62	68	1.2	69
Strength of Materials	8	54	56	1.7	57
Material Properties	8	59	62	1.4	62
Fluid Mechanics	8	59	64	1.8	66
Electricity and Magnetism	11	37	45	2.1	45
Thermodynamics	8	32	36	1.5	36

<b>PM Subject</b>					
Surveying	7	53	49	1.4	51
Hydraulics and Hydrologic Systems	7	51	57	1.5	58
Soil Mechanics and Foundations	9	68	56	1.9	57
Environmental Engineering	7	69	66	1.4	67
Transportation	7	59	59	1.3	60
Structural Analysis	6	59	62	1.3	63
Structural Design	6	57	53	1.2	54
Construction Management	6	59	60	1.4	63
Materials	5	61	57	1.2	58

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Currently Enrolled	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Engineering Mechanics</b>	PM Exam:	<b>FE-Other</b>
	*Institution	National	Carnegie Comparator

Examinees Taking	1	55	16
Examinees Passing	0	38	11
Examinees Passing %	0	69	69

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
<b>AM Subject</b>					
Mathematics	19	42	64	3.7	70
Engineering Probability and Statistics	8	38	60	1.6	64
Chemistry	11	55	70	2.1	79
Computers	8	75	68	1.6	73
Ethics and Business Practices	8	100	70	1.8	79
Engineering Economics	10	30	57	2.2	68
Engineering Mechanics (Statics)	8	12	73	1.9	82
Engineering Mechanics (Dynamics)	5	40	75	1.2	78
Strength of Materials	8	62	52	1.6	60
Material Properties	8	0	62	1.5	55
Fluid Mechanics	8	38	66	2.0	67
Electricity and Magnetism	11	36	53	2.6	53
Thermodynamics	8	25	43	1.6	44

<b>PM Subject</b>					
Advanced Engineering Mathematics	6	100	68	1.2	72
Engineering Probability and Statistics	5	60	63	1.0	68
Biology	3	67	61	0.9	67
Engineering Economics	6	50	51	1.4	53
Application of Engineering Mechanics	8	50	52	1.7	55
Engineering of Materials	7	71	56	1.5	65
Fluids	9	78	64	1.5	69
Electricity and Magnetism	7	29	52	1.7	54
Thermodynamics and Heat Transfer	9	33	45	1.6	46

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# NCEES

## Fundamentals of Engineering Examination

### ABET - Accredited Programs

Currently Enrolled	<b>Engineering</b>			
Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	<b>General Engineering</b>	PM Exam:	<b>FE-Other</b>	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	217	6
Examinees Passing	0	171	3
Examinees Passing %	0	79	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
<b>AM Subject</b>					
Mathematics	19	42	66	3.5	59
Engineering Probability and Statistics	8	38	67	1.7	56
Chemistry	11	64	79	1.9	68
Computers	8	88	75	1.5	69
Ethics and Business Practices	8	88	78	1.4	56
Engineering Economics	10	70	64	2.0	62
Engineering Mechanics (Statics)	8	75	76	1.6	75
Engineering Mechanics (Dynamics)	5	40	75	1.2	63
Strength of Materials	8	25	56	1.7	36
Material Properties	8	75	67	1.5	58
Fluid Mechanics	8	75	68	1.7	64
Electricity and Magnetism	11	55	63	2.4	59
Thermodynamics	8	25	46	1.8	46

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
<b>PM Subject</b>					
Advanced Engineering Mathematics	6	33	66	1.4	58
Engineering Probability and Statistics	5	40	69	1.1	57
Biology	3	33	66	0.8	28
Engineering Economics	6	50	52	1.5	42
Application of Engineering Mechanics	8	38	53	1.7	44
Engineering of Materials	7	29	61	1.6	50
Fluids	9	67	70	1.7	65
Electricity and Magnetism	7	29	58	1.5	38
Thermodynamics and Heat Transfer	9	33	45	1.8	39

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Currently Enrolled **Engineering**

Subject Matter Report by Major and PM Examination

Board: Kentucky Institution: University of Kentucky, Lexington  
 Board Code: 71 School Code: 7101  
 Major: **Materials** PM Exam: **FE-Other**

\*Institution                      National                      Carnegie Comparator

Examinees Taking	2	41	11
Examinees Passing	2	33	9
Examinees Passing %	100	80	82

	# 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	79	62	3.8	64
Engineering Probability and Statistics	8	82	66	1.5	67
Chemistry	11	86	85	1.4	88
Computers	8	75	69	1.4	77
Ethics and Business Practices	8	94	77	1.2	75
Engineering Economics	10	55	60	2.0	65
Engineering Mechanics (Statics)	8	68	74	1.4	72
Engineering Mechanics (Dynamics)	5	70	71	1.2	62
Strength of Materials	8	56	51	1.3	47
Material Properties	8	81	77	1.1	74
Fluid Mechanics	8	62	67	1.6	50
Electricity and Magnetism	11	50	56	2.3	45
Thermodynamics	8	50	45	1.8	39

**PM Subject**

Advanced Engineering Mathematics	6	75	63	1.3	62
Engineering Probability and Statistics	5	90	67	1.1	67
Biology	3	100	64	0.8	67
Engineering Economics	6	42	54	1.5	56
Application of Engineering Mechanics	8	50	51	1.6	58
Engineering of Materials	7	64	73	1.1	67
Fluids	9	78	66	1.6	63
Electricity and Magnetism	7	36	47	1.5	48
Thermodynamics and Heat Transfer	9	44	52	1.4	52

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Currently Enrolled **Engineering**

Subject Matter Report by Major and PM Examination

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	7	2,181	653
Examinees Passing	4	1,832	546
Examinees Passing %	57	84	84

	# 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	68	65	3.3	65
Engineering Probability and Statistics	8	64	63	1.5	62
Chemistry	11	77	78	1.8	77
Computers	8	70	78	1.3	77
Ethics and Business Practices	8	79	77	1.5	77
Engineering Economics	10	53	60	2.2	60
Engineering Mechanics (Statics)	8	82	81	1.4	80
Engineering Mechanics (Dynamics)	5	74	78	1.1	78
Strength of Materials	8	61	60	1.7	59
Material Properties	8	61	68	1.3	68
Fluid Mechanics	8	64	72	1.7	72
Electricity and Magnetism	11	52	59	2.3	59
Thermodynamics	8	45	48	1.8	49

**PM Subject**

Mechanical Design and Analysis	9	57	57	1.7	58
Kinematics, Dynamics, and Vibrations	9	63	64	1.8	63
Materials and Processing	6	55	65	1.3	65
Measurements, Instrumentation, and Controls	6	50	48	1.4	51
Thermodynamics and Energy Conversion Processes	9	48	57	2.0	56
Fluid Mechanics and Fluid Machinery	9	54	61	1.7	61
Heat Transfer	6	48	63	1.3	63
Refrigeration and HVAC	6	36	44	1.4	45

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Currently Enrolled **Engineering**

Subject Matter Report by Major and PM Examination

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	39	2,816	727
Examinees Passing	28	2,368	621
Examinees Passing %	72	84	85

	# 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	63	65	3.3	66
Engineering Probability and Statistics	8	61	64	1.5	64
Chemistry	11	74	77	1.8	78
Computers	8	74	76	1.4	77
Ethics and Business Practices	8	78	76	1.5	77
Engineering Economics	10	45	61	2.2	61
Engineering Mechanics (Statics)	8	77	79	1.4	80
Engineering Mechanics (Dynamics)	5	69	76	1.2	76
Strength of Materials	8	59	58	1.7	58
Material Properties	8	68	67	1.3	68
Fluid Mechanics	8	55	71	1.8	71
Electricity and Magnetism	11	48	58	2.3	57
Thermodynamics	8	38	47	1.8	45

**PM Subject**

Advanced Engineering Mathematics	6	63	68	1.2	67
Engineering Probability and Statistics	5	66	69	1.1	70
Biology	3	63	64	0.8	65
Engineering Economics	6	42	52	1.4	53
Application of Engineering Mechanics	8	53	57	1.6	56
Engineering of Materials	7	59	65	1.4	66
Fluids	9	65	73	1.6	73
Electricity and Magnetism	7	51	56	1.5	56
Thermodynamics and Heat Transfer	9	34	50	1.8	51

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Currently Enrolled **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	8	63	34
Examinees Passing	5	39	25
Examinees Passing %	62	62	74

	# 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	52	55	3.5	59
Engineering Probability and Statistics	8	74	63	1.2	67
Chemistry	11	62	73	1.8	75
Computers	8	70	70	1.4	75
Ethics and Business Practices	8	78	75	1.3	78
Engineering Economics	10	66	63	2.1	69
Engineering Mechanics (Statics)	8	60	68	1.8	73
Engineering Mechanics (Dynamics)	5	65	68	1.2	69
Strength of Materials	8	40	42	1.5	45
Material Properties	8	54	65	1.5	64
Fluid Mechanics	8	66	60	1.7	64
Electricity and Magnetism	11	38	48	2.2	48
Thermodynamics	8	42	36	1.4	40

**PM Subject**

Advanced Engineering Mathematics	6	64	57	1.3	62
Engineering Probability and Statistics	5	72	63	1.2	68
Biology	3	67	69	0.9	70
Engineering Economics	6	64	58	1.6	67
Application of Engineering Mechanics	8	31	42	1.6	45
Engineering of Materials	7	41	51	1.4	53
Fluids	9	66	66	1.6	72
Electricity and Magnetism	7	46	49	1.2	51
Thermodynamics and Heat Transfer	9	32	36	1.4	36

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