

# NCEES Fundamentals of Engineering Examination ABET - Accredited Programs

Currently Enrolled Subject Matter Report by Major and PM Examination  Board Code: <b>71</b> Major: <b>Agricultural</b>	Institution: <b>University of Kentucky, Lexington</b> School Code: <b>7101</b> PM Exam: <b>FE - Mechanical</b>
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	*Institution	National	Carnegie Comparator
Examinees Taking	1	5	3
Examinees Passing	1	5	3
Examinees Passing %	100	100	100

	# 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	73	2.3	72
Engineering Probability & Statistics	8	50	45	0.9	50
Chemistry	11	73	67	0.9	64
Computers	8	63	78	1.3	71
Ethics & Business Practices	8	88	80	1.5	75
Engineering Economics	10	60	72	1.3	73
Engineering Mechanics (Statics)	8	63	68	1.5	63
Engineering Mechanics (Dynamics)	5	60	48	1.5	47
Strength of Materials	8	50	53	0.4	54
Material Properties	8	38	60	1.1	54
Fluid Mechanics	8	38	70	1.7	67
Electricity & Magnetism	11	18	51	2.5	39
Thermodynamics	8	38	58	2.2	54

**PM Subject**

Mechanical Design & Analysis	9	67	80	1.6	67
Kinematics & Dynamics & Vibrations	9	33	44	1.7	48
Materials & Processing	6	17	60	1.7	50
Measurements & Instrumentation & Controls	6	83	63	1.3	61
Thermodynamics & Energy Conversion Processes	9	67	64	1.1	59
Fluid Mechanics & Fluid Machinery	9	56	64	0.8	67
Heat Transfer	6	67	63	0.4	61
Refrigeration & HVAC	6	50	43	0.9	50

\* 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 Guesser.

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# NCEES Fundamentals of Engineering Examination ABET - Accredited Programs

Currently Enrolled	<b>Engineering</b>	Institution:
Subject Matter Report by Major and PM Examination		<b>University of Kentucky, Lexington</b>
Board Code:	<b>71</b>	School Code:
Major	<b>Biological-(not Bio-Medical)</b>	<b>7101</b>
		PM Exam
		<b>FE - Other Disciplines</b>

	*Institution	National	Carnegie	Comparator	
Examinees Taking	2	112		55	
Examinees Passing	2	91		45	
Examinees Passing %	100	81		82	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	68	73	2.9	72
Engineering Probability & Statistics	8	56	56	1.7	54
Chemistry	11	77	71	1.8	68
Computers	8	88	76	1.5	72
Ethics & Business Practices	8	88	81	1.1	80
Engineering Economics	10	65	63	1.9	63
Engineering Mechanics (Statics)	8	88	68	1.6	63
Engineering Mechanics (Dynamics)	5	40	50	1.2	45
Strength of Materials	8	63	51	1.5	50
Material Properties	8	75	67	1.4	65
Fluid Mechanics	8	75	74	1.5	74
Electricity & Magnetism	11	64	53	2.3	52
Thermodynamics	8	69	59	1.9	61

### PM Subject

Advanced Engineering Mathematics	6	92	79	1.1	79
Engineering Probability & Statistics PM	5	40	55	1.3	53
Biology	3	50	61	0.8	61
Engineering Economics PM	6	75	66	1.5	63
Application of Engineering Mechanics	8	69	57	1.4	55
Engineering of Materials	7	57	60	1.2	57
Fluids	9	72	70	1.4	70
Electricity & Magnetism PM	7	43	49	1.7	44
Thermodynamics & Heat Transfer	9	56	65	1.6	65

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## Fundamentals of Engineering Examination

ABET - Accredited Programs

Currently Enrolled  
Subject Matter Report by Major and PM Examination

### Engineering

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

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

	*Institution	National	Carnegie	Comparator
Examinees Taking	11	1,507		360
Examinees Passing	11	1,301		310
Examinees Passing %	100	86		86

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

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Mathematics	19	78	76	2.9	75
Engineering Probability & Statistics	8	66	61	1.6	60
Chemistry	11	84	79	1.5	79
Computers	8	83	82	1.3	83
Ethics & Business Practices	8	85	80	1.2	79
Engineering Economics	10	55	65	2.2	66
Engineering Mechanics (Statics)	8	50	57	1.8	57
Engineering Mechanics (Dynamics)	5	38	42	1.2	41
Strength of Materials	8	34	40	1.5	40
Material Properties	8	63	62	1.6	63
Fluid Mechanics	8	70	72	1.6	72
Electricity & Magnetism	11	50	50	2.1	48
Thermodynamics	8	78	73	1.6	75

### PM Subject

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Chemistry PM	6	70	74	1.0	76
Material-Energy Balances	9	76	73	1.8	75
Chemical Engineering Thermodynamics	6	55	59	1.4	60
Fluid Dynamics	6	48	57	1.5	57
Heat Transfer	6	73	71	1.3	72
Mass Transfer	6	56	50	1.5	52
Chemical Reaction Engineering	6	74	71	1.3	72
Process Design & Economic Optimization	6	65	76	1.3	77
Computer Usage in Chemical Engineering	3	88	68	0.9	68
Process control	3	73	75	0.8	73
Safety & Health & Environmental	3	76	75	0.7	75

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	37	6,638	1,715		
Examinees Passing	31	5,312	1,387		
Examinees Passing %	84	80	81		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	67	69	3.1	69
Engineering Probability & Statistics	8	53	53	1.7	53
Chemistry	11	63	62	1.9	61
Computers	8	80	74	1.6	73
Ethics & Business Practices	8	84	83	1.1	84
Engineering Economics	10	66	64	2.2	65
Engineering Mechanics (Statics)	8	70	65	1.8	65
Engineering Mechanics (Dynamics)	5	38	44	1.2	43
Strength of Materials	8	60	62	1.6	61
Material Properties	8	64	60	1.7	60
Fluid Mechanics	8	76	72	1.6	73
Electricity & Magnetism	11	36	43	2.1	42
Thermodynamics	8	48	49	1.9	50

**PM Subject**

Surveying	7	59	56	1.5	58
Hydraulics & Hydrologic Systems	7	57	57	1.6	57
Soil Mechanics & Foundations	9	64	60	1.7	60
Environmental Engineering	7	60	62	1.2	62
Transportation	7	56	50	1.5	51
Structural Analysis	6	44	48	1.2	49
Structural Design	6	62	63	1.3	62
Construction Management	6	70	73	1.2	73
Materials	5	61	50	1.2	52

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## Fundamentals of Engineering Examination

ABET - Accredited Programs

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	10	1,472	286		
Examinees Passing	8	1,060	214		
Examinees Passing %	80	72	75		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	72	75	3.1	76
Engineering Probability & Statistics	8	60	53	1.8	53
Chemistry	11	51	61	2.0	60
Computers	8	79	80	1.6	81
Ethics & Business Practices	8	79	79	1.3	81
Engineering Economics	10	43	57	2.2	57
Engineering Mechanics (Statics)	8	54	56	1.8	59
Engineering Mechanics (Dynamics)	5	36	40	1.2	41
Strength of Materials	8	40	36	1.5	37
Material Properties	8	53	52	1.7	51
Fluid Mechanics	8	46	52	1.7	53
Electricity & Magnetism	11	77	71	1.7	73
Thermodynamics	8	30	50	1.8	49

### PM Subject

Circuits	10	62	60	2.0	61
Power	8	56	58	1.6	61
Electromagnetics	4	55	56	0.9	58
Control Systems	6	28	45	1.4	44
Communications	5	38	47	1.2	45
Signal Processing	5	60	62	1.3	62
Electronics	9	61	60	1.8	61
Digital Systems	7	63	65	1.6	64
Computer Systems	6	65	60	1.2	63

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

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	25	5,406	1,465		
Examinees Passing	19	4,468	1,212		
Examinees Passing %	76	83	83		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	74	75	2.9	75
Engineering Probability & Statistics	8	59	57	1.7	57
Chemistry	11	61	64	1.9	64
Computers	8	92	82	1.4	82
Ethics & Business Practices	8	85	81	1.2	81
Engineering Economics	10	49	62	2.2	63
Engineering Mechanics (Statics)	8	70	71	1.7	72
Engineering Mechanics (Dynamics)	5	53	54	1.2	54
Strength of Materials	8	60	62	1.4	62
Material Properties	8	64	68	1.6	67
Fluid Mechanics	8	72	74	1.6	74
Electricity & Magnetism	11	55	57	2.1	57
Thermodynamics	8	69	65	1.9	65

**PM Subject**

Mechanical Design & Analysis	9	69	69	1.6	70
Kinematics & Dynamics & Vibrations	9	51	55	2.0	55
Materials & Processing	6	51	56	1.3	56
Measurements & Instrumentation & Controls	6	68	61	1.4	62
Thermodynamics & Energy Conversion Processes	9	66	63	1.8	64
Fluid Mechanics & Fluid Machinery	9	51	57	1.7	58
Heat Transfer	6	55	57	1.1	57
Refrigeration & HVAC	6	67	63	1.3	63

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

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

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	6	708	61		
Examinees Passing	5	546	53		
Examinees Passing %	83	77	87		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	75	75	3.1	75
Engineering Probability & Statistics	8	52	53	1.8	55
Chemistry	11	59	62	2.1	64
Computers	8	92	78	1.5	83
Ethics & Business Practices	8	67	80	1.2	78
Engineering Economics	10	52	61	2.3	63
Engineering Mechanics (Statics)	8	56	66	1.8	69
Engineering Mechanics (Dynamics)	5	60	52	1.2	53
Strength of Materials	8	60	61	1.5	63
Material Properties	8	75	64	1.7	65
Fluid Mechanics	8	69	72	1.6	71
Electricity & Magnetism	11	52	57	2.1	55
Thermodynamics	8	71	62	1.9	64

**PM Subject**

Advanced Engineering Mathematics	6	81	81	1.1	84
Engineering Probability & Statistics PM	5	57	55	1.3	59
Biology	3	33	49	0.8	45
Engineering Economics PM	6	53	65	1.6	69
Application of Engineering Mechanics	8	60	62	1.6	63
Engineering of Materials	7	57	59	1.4	63
Fluids	9	59	69	1.6	73
Electricity & Magnetism PM	7	33	55	1.6	56
Thermodynamics & Heat Transfer	9	67	61	1.6	66

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

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

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	26	121	59		
Examinees Passing	25	77	46		
Examinees Passing %	96	64	78		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	74	65	3.1	69
Engineering Probability & Statistics	8	50	50	1.6	52
Chemistry	11	66	61	1.9	63
Computers	8	79	74	1.5	80
Ethics & Business Practices	8	81	83	1.2	84
Engineering Economics	10	71	65	2.3	71
Engineering Mechanics (Statics)	8	68	59	1.8	63
Engineering Mechanics (Dynamics)	5	45	43	1.2	46
Strength of Materials	8	53	47	1.5	51
Material Properties	8	60	58	1.7	59
Fluid Mechanics	8	79	74	1.6	76
Electricity & Magnetism	11	59	50	2.2	52
Thermodynamics	8	56	52	1.7	53

**PM Subject**

Advanced Engineering Mathematics	6	79	69	1.2	74
Engineering Probability & Statistics PM	5	56	50	1.2	55
Biology	3	47	47	0.9	54
Engineering Economics PM	6	80	65	1.7	71
Application of Engineering Mechanics	8	57	52	1.6	54
Engineering of Materials	7	57	57	1.3	61
Fluids	9	71	62	1.7	68
Electricity & Magnetism PM	7	50	46	1.6	48
Thermodynamics & Heat Transfer	9	66	58	1.4	60

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## Fundamentals of Engineering Examination

ABET - Accredited Programs

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

	*Institution	National	Carnegie	Comparator	
Examinees Taking	1	127		30	
Examinees Passing	1	91		21	
Examinees Passing %	100	72		70	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	68	70	2.9	68
Engineering Probability & Statistics	8	50	53	1.5	49
Chemistry	11	82	63	1.9	64
Computers	8	63	76	1.5	77
Ethics & Business Practices	8	100	82	1.1	83
Engineering Economics	10	80	61	1.9	61
Engineering Mechanics (Statics)	8	75	57	1.7	58
Engineering Mechanics (Dynamics)	5	80	42	1.0	43
Strength of Materials	8	63	48	1.5	49
Material Properties	8	63	57	1.7	58
Fluid Mechanics	8	100	64	1.7	70
Electricity & Magnetism	11	36	55	2.2	54
Thermodynamics	8	88	55	1.8	60

### PM Subject

Advanced Engineering Mathematics	6	67	75	1.2	72
Engineering Probability & Statistics PM	5	40	55	1.3	49
Biology	3	100	53	0.8	53
Engineering Economics PM	6	67	60	1.7	57
Application of Engineering Mechanics	8	38	50	1.5	46
Engineering of Materials	7	57	53	1.4	50
Fluids	9	67	62	1.6	65
Electricity & Magnetism PM	7	43	55	1.6	51
Thermodynamics & Heat Transfer	9	67	58	1.6	61

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