

**NCEES**  
**Principles and Practice of Engineering Examination**  
**ABET - Accredited Programs**

Graduate of	<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>Agricultural</b>	PM Exam:	<b>Agricultural</b>		
	*Institution	National		Carnegie Comparator	
Examinees Taking	1	17		12	
Examinees Passing	1	11		9	
Examinees Passing %	100	65		75	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Soil & Water - Hydrology	5	60	60	1.4	57
Soil & Water - Soil Conservation Systems	4	50	49	0.7	50
Soil & Water - Water Management	6	67	59	1.5	61
Power & Machinery - Machinery Systems	5	80	56	1.2	62
Power & Machinery - Machine Design	4	100	75	0.9	73
Power & Machinery - Power & Energy Systems	5	100	58	1.1	62
Process & Handling Bio. Products - Unit Operations	7	86	61	1.6	61
Process & Handling Bio. Products - Characterization	3	100	69	0.9	75
Structures & Environment - Structural Systems	6	83	61	1.5	57
Structures & Environment - Environmental Systems	6	50	52	1.7	56
Structures & Environment - Facilities Planning	3	67	71	0.6	75
Biological Systems - Biological Processes	5	100	58	1.2	65
Biological Systems - Environ & Ecological Systems	3	100	49	1.0	47
Agric Engr Principles - Core AgE Knowledges	10	100	65	2.2	68
Agric Engr Principles - Equipment Application	6	67	46	1.3	46
Agric Engr Principles - Professional Practice	2	100	71	0.8	75

\* 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.

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

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Graduate of <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>Agricultural</b>	PM Exam:	<b>Civil-Water Resources_Environmental</b>		
	*Institution	National	Carnegie Comparator		
Examinees Taking	3	47	21		
Examinees Passing	1	25	11		
Examinees Passing %	33	53	52		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	58	60	1.5	54
Breadth - Geotechnical	8	62	54	1.6	55
Breadth - Structural	8	62	66	1.3	60
Breadth - Transportation	8	54	58	1.6	61
Breadth - Water Resources and Environmental	8	63	65	1.5	63
Hydraulics - Closed Conduit	6	61	74	1.3	74
Hydraulics - Open Channel	6	39	62	1.2	59
Hydrology	6	56	62	1.4	60
Groundwater and Well Fields	3	56	70	0.9	76
Wastewater Treatment	6	50	45	1.7	47
Water Quality	6	61	62	0.9	60
Water Treatment	6	61	65	1.2	64
Engineering Economics	1	33	62	0.5	62

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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:	<b>Chemical</b>	PM Exam:	<b>Chemical</b>
	*Institution	National	Carnegie Comparator

	*Institution	National	Carnegie Comparator		
Examinees Taking	2	222	60		
Examinees Passing	2	162	48		
Examinees Passing %	100	73	80		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Mass/Energy: Mass Balances	9	83	70	1.9	73
Mass/Energy: Energy Balances & Thermo	10	65	61	2.2	62
Fluids: Fluid Transport	2	25	32	0.6	43
Fluids: Mech-Energy Balance	9	84	66	1.8	70
Fluids: Flow Measurement	3	50	61	0.9	61
Heat Transfer: Mechanisms	5	60	65	1.2	68
Heat Transfer: Applications	8	68	52	1.8	55
Mass Transfer: Phase Equilibria	4	88	67	1.0	69
Mass Transfer Contactors (Absorption-etc)	5	90	56	1.3	59
Mass Transfer: Miscellaneous Separation Processes	1	50	58	0.5	60
Kinetics: Reaction Parameters	2	75	65	0.7	65
Kinetics: Reaction Rate	2	75	55	0.8	59
Kinetics: Reactor Design & Evaluation	3	16	51	0.9	55
Kinetics: Heterogeneous Reaction Systems	2	75	66	0.7	69
Plant Design/Operation: Economic Considerations	2	100	71	0.7	73
Plant Design/Operation: Design & Operations	4	88	59	1.2	64
Plant Design/Operation: Safety	3	66	69	0.8	68
Plant Design/Operation: Environmental	2	100	83	0.5	85
Plant Design/Operation: Materials	2	100	42	0.7	49
Plant Design/Operation: Process Control	2	0	60	0.7	66

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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:	<b>Chemical</b>	PM Exam:	<b>Environmental</b>		
	*Institution	National		Carnegie Comparator	
Examinees Taking	1	93		28	
Examinees Passing	1	62		21	
Examinees Passing %	100	67		75	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Wastewater	11	73	61	2.1	60
Storm Water	6	67	65	1.4	70
Potable Water	11	82	66	1.9	71
Water Resources	6	67	58	1.2	60
Ambient Air	8	100	75	1.5	80
Emissions Sources	4	75	60	1.1	64
Control Strategies	8	62	57	1.6	62
Municipal Solid Waste (MSW), Commercial, and Ind.	9	78	68	1.7	72
Hazardous Waste, Special, and Radioactive Waste	11	64	67	1.6	65
Environmental Assessments	8	75	52	1.6	54
Remediation	8	38	44	1.7	44
Public Health and Safety	10	60	65	1.8	69

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Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Construction</b>		
	*Institution	National	Carnegie Comparator		
Examinees Taking	10	969	242		
Examinees Passing	6	300	94		
Examinees Passing %	60	31	39		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	70	64	1.6	68
Breadth - Geotechnical	8	61	60	1.5	60
Breadth - Structural	8	66	70	1.6	70
Breadth - Transportation	8	54	57	1.8	59
Breadth - Water Resources and Environmental	8	55	52	1.7	55
Earthwork Construction and Layout	4	48	51	1.0	50
Estimating Quantities and Costs	7	60	51	1.7	55
Construction Operations and Methods	6	45	41	1.3	44
Scheduling	7	67	57	1.5	60
Material Quality Control and Production	4	52	52	0.9	53
Temporary Structures	5	62	54	1.1	58
Worker Health, Safety, and Environment	3	60	43	0.8	47
Other Topics	4	60	43	0.9	45

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Board Code:	71	School Code:	7101		
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Geotechnical</b>		
	*Institution		National		Carnegie Comparator
Examinees Taking	7		645		151
Examinees Passing	3		290		82
Examinees Passing %	43		45		54
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	64	59	1.6	63
Breadth - Geotechnical	8	70	79	1.4	81
Breadth - Structural	8	64	74	1.5	76
Breadth - Transportation	8	52	59	1.9	61
Breadth - Water Resources and Environmental	8	68	55	1.8	59
Subsurface Exploration & Sampling	3	76	75	0.7	76
Engineering Properties of Soils and Materials	5	63	65	1.2	68
Soil Mechanics Analysis	5	46	49	1.2	53
Earthquake Engineering	2	71	69	0.7	73
Earth Structures	4	25	24	0.9	25
Shallow Foundations	6	50	52	1.3	52
Earth Retaining Structures	6	57	51	1.3	53
Deep Foundations	4	61	51	1.2	56
Other Topics	5	80	62	1.1	65

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Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Structural</b>		
	*Institution	National		Carnegie Comparator	
Examinees Taking	7	695		165	
Examinees Passing	6	471		119	
Examinees Passing %	86	68		72	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	70	66	1.6	69
Breadth - Geotechnical	8	84	72	1.4	74
Breadth - Structural	8	89	86	1.2	87
Breadth - Transportation	8	73	66	1.8	70
Breadth - Water Resources and Environmental	8	77	60	1.8	62
Loadings	5	57	59	1.1	59
Analysis	5	74	63	1.2	62
Mechanics of Materials	5	71	71	1.1	73
Materials	5	54	61	1.2	61
Member Design	10	63	47	2.1	49
Design Criteria	5	54	55	1.1	58
Other Topics	5	60	54	1.2	55

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Transportation</b>	
	*Institution	National	Carnegie Comparator	

	*Institution	National	Carnegie Comparator		
Examinees Taking	20	1,826	555		
Examinees Passing	12	916	319		
Examinees Passing %	60	50	57		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	59	59	1.7	61
Breadth - Geotechnical	8	61	62	1.6	62
Breadth - Structural	8	69	68	1.5	70
Breadth - Transportation	8	64	69	1.8	71
Breadth - Water Resources and Environmental	8	62	58	1.7	61
Traffic Analysis	9	71	65	1.6	68
Geometric Design	12	81	75	2.1	77
Transportation Planning	3	77	73	0.8	77
Traffic Safety	6	68	55	1.3	58
Other Topics	10	68	68	1.7	70

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Board Code:	71	School Code:	7101		
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Water Resources_Environmental</b>		
	*Institution		National		Carnegie Comparator
Examinees Taking	10		1,270		341
Examinees Passing	6		666		197
Examinees Passing %	60		52		58
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	62	60	1.7	61
Breadth - Geotechnical	8	60	62	1.6	64
Breadth - Structural	8	71	70	1.5	71
Breadth - Transportation	8	61	60	1.9	61
Breadth - Water Resources and Environmental	8	70	66	1.7	67
Hydraulics - Closed Conduit	6	80	72	1.4	75
Hydraulics - Open Channel	6	65	63	1.3	65
Hydrology	6	63	56	1.4	59
Groundwater and Well Fields	3	73	64	0.9	70
Wastewater Treatment	6	44	40	1.5	42
Water Quality	6	62	59	1.1	61
Water Treatment	6	62	64	1.4	65
Engineering Economics	1	80	71	0.5	73

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	<b>Civil</b>	PM Exam:	<b>Structural I</b>	
	*Institution	National	Carnegie Comparator	

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	303	111		
Examinees Passing	1	121	51		
Examinees Passing %	100	40	46		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Analysis of Structures-Loads	6	50	53	1.2	57
Analysis of Structures-Lateral Forces	6	67	61	0.9	61
Analysis of Structures-Lateral Force Distribution	9	67	50	1.6	51
Analysis of Structures-Methods	4	100	48	0.9	52
Design and Details of Structures-General Structural C	6	100	72	1.2	71
Design and Details of Structures-Steel (AISC-AASHT 14	64	64	53	2.0	55
Design and Details of Structures-Concrete (AASHTO 13	77	77	63	2.0	65
Design and Details of Structures-Wood (NDS-ASD) 7	57	57	59	1.6	59
Design and Details of Structures-Masonry (ACI 530-L 7	100	100	59	1.4	61
Design and Details of Structures-Foundations & Reta 8	62	62	58	1.6	58

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Board Code:	71	School Code:	7101		
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-Electronics</b>		
	*Institution		National		Carnegie Comparator
Examinees Taking	1		129		28
Examinees Passing	1		79		21
Examinees Passing %	100		61		75
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
General Electrical Engineering Knowledge	40	90	64	7.1	69
Digital Systems	8	88	71	1.3	77
Electric & Magnetic Field Theory & App.	8	100	57	1.6	64
Electronics	10	80	59	2.0	66
Control System Fundamentals	6	83	56	1.5	61
Communications	8	75	57	1.7	62

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Board Code:	71	School Code:	7101	
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-Power</b>	
	*Institution	National	Carnegie Comparator	

Examinees Taking	5	876	224		
Examinees Passing	2	405	125		
Examinees Passing %	40	46	56		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
General Power Engineering	24	57	52	3.4	55
Circuit Analysis	16	76	57	2.7	61
Rotating Machines & Electromagnetic Devices	16	85	71	2.6	74
Transmission & Distribution	24	51	52	3.3	55

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Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-HVAC and Refrigeration</b>		
	*Institution	National	Carnegie Comparator		
Examinees Taking	2	455	101		
Examinees Passing	1	298	67		
Examinees Passing %	50	65	66		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Basic Engineering Practice	12	67	68	2.0	70
Breadth - Mechanical System and Materials	8	63	54	1.7	53
Breadth - Hydraulics and Fluids	7	57	56	1.3	58
Breadth - Energy and Power Systems	6	34	53	1.6	53
Breadth - HVAC and Refrigeration	7	86	73	1.4	74
HVAC - Thermodynamics	3	33	67	0.9	67
HVAC - Psychrometrics	6	58	56	1.3	57
HVAC - Heat Transfer	5	80	61	1.2	63
HVAC - Fluid Mechanics	3	84	69	0.9	73
HVAC - Compressible Flow	1	100	49	0.5	41
HVAC - Energy Balances	4	75	61	1.2	64
HVAC - Equipment and Components	8	69	54	1.6	55
HVAC - Systems	7	43	53	1.5	55
HVAC - Supportive Knowledge	3	67	48	1.0	54

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Board Code:	71	School Code:	7101		
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-Mechanical Systems and Materials</b>		
	*Institution		National		Carnegie Comparator
Examinees Taking	1		448		113
Examinees Passing	0		251		69
Examinees Passing %	0		56		61
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Basic Engineering Practice	12	67	69	1.8	70
Breadth - Mechanical Systems and Materials	8	75	67	1.7	69
Breadth - Hydraulics and Fluids	7	71	55	1.4	55
Breadth - Energy and Power Systems	6	17	53	1.5	53
Breadth - HVAC and Refrigeration	7	43	58	1.5	58
MS&M - Statics	6	67	57	1.4	57
MS&M - Kinematics	3	0	60	0.9	59
MS&M - Dynamics	4	25	44	1.1	45
MS&M - Materials Properties	4	25	61	1.1	60
MS&M - Strength of Materials	7	43	55	1.6	55
MS&M - Mechanical Components	4	100	76	1.0	76
MS&M - Joints and Fasteners	4	100	56	0.9	56
MS&M - Vibration/Dynamic Analysis	4	0	39	1.1	37
MS&M - Materials and Process	4	75	49	1.1	52

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\*\* 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](http://www.carnegiefoundation.org)

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**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduate of	<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>Mining/Mineral</b>	PM Exam:	<b>Civil-Geotechnical</b>		
	*Institution	National	Carnegie Comparator		
Examinees Taking	1	3	2		
Examinees Passing	1	3	2		
Examinees Passing %	100	100	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	38	58	1.5	56
Breadth - Geotechnical	8	62	83	1.5	75
Breadth - Structural	8	88	88	1.0	94
Breadth - Transportation	8	38	58	1.5	56
Breadth - Water Resources and Environmental	8	50	62	1.0	56
Subsurface Exploration & Sampling	3	67	67	0.0	67
Engineering Properties of Soils and Materials	5	100	80	1.0	90
Soil Mechanics Analysis	5	60	67	0.6	70
Earthquake Engineering	2	100	83	0.6	100
Earth Structures	4	0	33	1.2	25
Shallow Foundations	6	50	50	1.0	58
Earth Retaining Structures	6	67	61	1.5	75
Deep Foundations	4	100	92	0.6	100
Other Topics	5	80	80	1.0	90

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**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduate of	<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>Mining/Mineral</b>	PM Exam:	<b>Mining &amp; Mineral Processing</b>
	*Institution	National	Carnegie Comparator

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	61	30		
Examinees Passing	1	39	18		
Examinees Passing %	25	64	60		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Exploration: Apply exploration methods and techniques	3	50	50	0.8	41
Exploration: Characterize site geologic and geotechnical	3	42	67	0.9	69
Exploration: Estimate, characterize, and evaluate resources	4	81	70	1.1	72
Mine Planning/Operations: Plan, design, and implement	8	88	82	1.3	86
Mine Planning/Operations: Plan, design, select, and/or construct	13	64	72	2.1	73
Mine Planning/Operations: Evaluate and design group	7	61	65	1.3	65
Mine Planning/Operations: Operate and manage mine	4	62	69	1.0	67
Mineral Processing: Perform laboratory and pilot testing	4	38	72	1.1	71
Mineral Processing: Design and evaluate process flow	9	56	62	1.6	63
Mineral Processing: Plan, design, select, and/or construct	7	60	63	1.4	62
Mineral Processing: Operate and manage plants and equipment	4	75	70	1.0	68
Environment and Reclamation: Characterize site, mine, and/or facility	4	69	79	0.9	78
Environment and Reclamation: Plan and design to mine	5	50	54	1.3	58
Environment and Reclamation: Operate and manage mine	3	58	70	0.7	74
Environment and Reclamation: Close and reclaim the mine	2	62	62	0.7	68

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