



National Council of Examiners for Engineering and Surveying
Principles and Practice of Engineering Examination
ABET - Accredited Programs

200804

6/23/2008

| | | | | | | |
|---|---------------------|--------------|-------------------------|--|--|--|
| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Agricultural | PM Exam: | Chemical | | | |
| | *Institution | National | Comparator Groupings | | | |

| | | | | | |
|---------------------|---|---|---|---|---|
| Examinees Taking | 1 | 1 | 1 | 0 | 0 |
| Examinees Passing | 0 | 0 | 0 | 0 | 0 |
| Examinees Passing % | 0 | 0 | 0 | 0 | 0 |

| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Mass/Energy: Mass Balances | 9 | 11 | 11 | 0.0 | 11 | 0 | 0 |
| Mass/Energy: Energy Balances & Thermo | 10 | 50 | 50 | 0.0 | 50 | 0 | 0 |
| Fluids: Fluid Transport | 2 | 50 | 50 | 0.0 | 50 | 0 | 0 |
| Fluids: Mech-Energy Balance | 9 | 22 | 22 | 0.0 | 22 | 0 | 0 |
| Fluids: Flow Measurement | 3 | 33 | 33 | 0.0 | 33 | 0 | 0 |
| Heat Transfer: Mechanisms | 4 | 25 | 25 | 0.0 | 25 | 0 | 0 |
| Heat Transfer: Applications | 9 | 33 | 33 | 0.0 | 33 | 0 | 0 |
| Mass Transfer: Phase Equilibria | 4 | 75 | 75 | 0.0 | 75 | 0 | 0 |
| Mass Transfer Contactors (Absorption-etc) | 5 | 20 | 20 | 0.0 | 20 | 0 | 0 |
| Mass Transfer: Miscellaneous Separation Processes | 1 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| Kinetics: Reaction Parameters | 2 | 50 | 50 | 0.0 | 50 | 0 | 0 |
| Kinetics: Reaction Rate | 2 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| Kinetics: Reactor Design & Evaluation | 3 | 33 | 33 | 0.0 | 33 | 0 | 0 |
| Kinetics: Heterogenous Reaction Systems | 2 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| Plant Design/Operation: Economic Considerations | 2 | 50 | 50 | 0.0 | 50 | 0 | 0 |
| Plant Design/Operation: Design & Operations | 4 | 25 | 25 | 0.0 | 25 | 0 | 0 |
| Plant Design/Operation: Safety | 3 | 67 | 67 | 0.0 | 67 | 0 | 0 |
| Plant Design/Operation: Environmental | 2 | 50 | 50 | 0.0 | 50 | 0 | 0 |
| Plant Design/Operation: Materials | 2 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| Plant Design/Operation: Process Control | 2 | 0 | 0 | 0.0 | 0 | 0 | 0 |

* 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.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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|---|---------------------|--------------|--|----------------------|--|--|--|
| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Agricultural | PM Exam: | Civil-Water Resources_Environmental | | | | |
| | *Institution | | National | Comparator Groupings | | | |

| | 1 | 41 | 34 | 3 | 3 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 1 | 25 | 20 | 2 | 3 | | |
| Examinees Passing | 100 | 61 | 59 | 67 | 100 | | |
| Examinees Passing % | | | | | | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 62 | 72 | 1.4 | 71 | 83 | 83 |
| Breadth - Geotechnical | 8 | 50 | 56 | 1.5 | 57 | 67 | 38 |
| Breadth - Structural | 8 | 50 | 67 | 1.5 | 66 | 67 | 83 |
| Breadth - Transportation | 8 | 62 | 70 | 1.5 | 70 | 79 | 75 |
| Breadth - Water Resources and Environmental | 8 | 100 | 78 | 1.5 | 80 | 84 | 71 |
| Hydraulics - Closed Conduit | 6 | 100 | 80 | 0.9 | 81 | 72 | 83 |
| Hydraulics - Open Channel | 6 | 100 | 70 | 1.1 | 71 | 78 | 56 |
| Hydrology | 6 | 100 | 77 | 1.1 | 76 | 83 | 83 |
| Groundwater and Well Fields | 3 | 100 | 63 | 1.0 | 62 | 44 | 89 |
| Wastewater Treatment | 6 | 67 | 68 | 1.4 | 66 | 72 | 89 |
| Water Quality | 6 | 83 | 72 | 1.1 | 72 | 72 | 78 |
| Water Treatment | 6 | 83 | 64 | 1.0 | 64 | 67 | 56 |
| Engineering Economics | 1 | 0 | 39 | 0.5 | 41 | 33 | 0 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Agricultural | PM Exam: | Environmental | | | |
| | *Institution | National | Comparator Groupings | | | |

| | 1 | 10 | 10 | 0 | 0 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 1 | 10 | 10 | 0 | 0 | | |
| Examinees Passing | 0 | 5 | 5 | 0 | 0 | | |
| Examinees Passing % | 0 | 50 | 50 | 0 | 0 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Wastewater | 11 | 45 | 55 | 1.7 | 55 | 0 | 0 |
| Storm Water | 6 | 33 | 48 | 1.7 | 48 | 0 | 0 |
| Potable Water | 11 | 55 | 52 | 2.5 | 52 | 0 | 0 |
| Water Resources | 6 | 33 | 38 | 1.6 | 38 | 0 | 0 |
| Ambient Air | 9 | 33 | 46 | 1.4 | 46 | 0 | 0 |
| Emissions Sources | 3 | 0 | 43 | 0.9 | 43 | 0 | 0 |
| Control Strategies | 8 | 25 | 49 | 1.7 | 49 | 0 | 0 |
| Municipal Solid Waste (MSW), Commercial, and Ind. | 10 | 40 | 67 | 2.1 | 67 | 0 | 0 |
| Hazardous Waste, Special, and Radioactive Waste | 10 | 60 | 60 | 0.9 | 60 | 0 | 0 |
| Environmental Assessments | 8 | 38 | 58 | 1.7 | 58 | 0 | 0 |
| Remediation | 8 | 38 | 54 | 1.2 | 54 | 0 | 0 |
| Public Health and Safety | 10 | 60 | 60 | 1.6 | 60 | 0 | 0 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Chemical | PM Exam: | Chemical | | | | |
| | *Institution | | National | | Comparator Groupings | | |

| | | | | | |
|---------------------|-----|-----|-----|----|----|
| Examinees Taking | 1 | 217 | 125 | 24 | 48 |
| Examinees Passing | 1 | 131 | 86 | 14 | 15 |
| Examinees Passing % | 100 | 60 | 69 | 58 | 31 |

| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Mass/Energy: Mass Balances | 9 | 67 | 61 | 2.0 | 63 | 61 | 55 |
| Mass/Energy: Energy Balances & Thermo | 10 | 80 | 56 | 1.9 | 58 | 54 | 50 |
| Fluids: Fluid Transport | 2 | 50 | 76 | 0.6 | 80 | 77 | 62 |
| Fluids: Mech-Energy Balance | 9 | 67 | 62 | 1.8 | 67 | 62 | 50 |
| Fluids: Flow Measurement | 3 | 67 | 46 | 0.8 | 48 | 51 | 38 |
| Heat Transfer: Mechanisms | 4 | 75 | 60 | 1.1 | 64 | 58 | 47 |
| Heat Transfer: Applications | 9 | 33 | 55 | 2.1 | 58 | 60 | 45 |
| Mass Transfer: Phase Equilibria | 4 | 100 | 58 | 1.0 | 61 | 54 | 51 |
| Mass Transfer Contactors (Absorption-etc) | 5 | 80 | 53 | 1.4 | 57 | 53 | 40 |
| Mass Transfer: Miscellaneous Separation Processes | 1 | 100 | 60 | 0.5 | 61 | 83 | 48 |
| Kinetics: Reaction Parameters | 2 | 100 | 79 | 0.6 | 80 | 75 | 75 |
| Kinetics: Reaction Rate | 2 | 50 | 38 | 0.7 | 43 | 40 | 26 |
| Kinetics: Reactor Design & Evaluation | 3 | 100 | 74 | 0.9 | 77 | 68 | 65 |
| Kinetics: Heterogenous Reaction Systems | 2 | 0 | 41 | 0.7 | 45 | 35 | 33 |
| Plant Design/Operation: Economic Considerations | 2 | 0 | 60 | 0.8 | 62 | 60 | 52 |
| Plant Design/Operation: Design & Operations | 4 | 25 | 62 | 1.0 | 65 | 59 | 55 |
| Plant Design/Operation: Safety | 3 | 33 | 60 | 0.8 | 60 | 60 | 58 |
| Plant Design/Operation: Environmental | 2 | 100 | 75 | 0.6 | 75 | 88 | 71 |
| Plant Design/Operation: Materials | 2 | 100 | 51 | 0.7 | 49 | 56 | 52 |
| Plant Design/Operation: Process Control | 2 | 50 | 42 | 0.7 | 46 | 38 | 29 |

* 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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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Civil | PM Exam: | Civil-Construction | | | | |
| | *Institution | | National | | Comparator Groupings | | |

| Examinees Taking | 6 | 680 | 314 | 101 | 198 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 3 | 221 | 134 | 32 | 36 | | |
| Examinees Passing % | 50 | 32 | 43 | 32 | 18 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 81 | 74 | 1.4 | 77 | 75 | 70 |
| Breadth - Geotechnical | 8 | 65 | 60 | 1.5 | 61 | 62 | 55 |
| Breadth - Structural | 8 | 71 | 68 | 1.8 | 73 | 66 | 62 |
| Breadth - Transportation | 8 | 77 | 67 | 1.8 | 70 | 69 | 61 |
| Breadth - Water Resources and Environmental | 8 | 65 | 68 | 1.7 | 72 | 70 | 63 |
| Earthwork Construction and Layout | 4 | 58 | 48 | 1.0 | 50 | 50 | 45 |
| Estimating Quantities and Costs | 7 | 55 | 55 | 1.3 | 58 | 55 | 51 |
| Construction Operations and Methods | 6 | 64 | 59 | 1.1 | 60 | 59 | 56 |
| Scheduling | 7 | 78 | 61 | 1.5 | 64 | 61 | 56 |
| Material Quality Control and Production | 4 | 54 | 40 | 1.0 | 43 | 45 | 34 |
| Temporary Structures | 5 | 47 | 34 | 1.1 | 36 | 35 | 32 |
| Worker Health, Safety, and Environment | 3 | 56 | 41 | 0.8 | 45 | 40 | 35 |
| Other Topics | 4 | 42 | 40 | 1.0 | 42 | 39 | 38 |

* 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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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Civil | PM Exam: | Civil-Geotechnical | | | | |
| | *Institution | | National | | Comparator Groupings | | |

| | 2 | 512 | 240 | 79 | 133 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 2 | 512 | 240 | 79 | 133 | | |
| Examinees Passing | 0 | 224 | 122 | 33 | 46 | | |
| Examinees Passing % | 0 | 44 | 51 | 42 | 35 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 62 | 70 | 1.6 | 70 | 75 | 68 |
| Breadth - Geotechnical | 8 | 56 | 69 | 1.6 | 71 | 73 | 64 |
| Breadth - Structural | 8 | 88 | 76 | 1.6 | 79 | 74 | 73 |
| Breadth - Transportation | 8 | 62 | 72 | 1.7 | 75 | 69 | 69 |
| Breadth - Water Resources and Environmental | 8 | 62 | 74 | 1.6 | 76 | 72 | 71 |
| Subsurface Exploration & Sampling | 3 | 84 | 62 | 0.9 | 63 | 63 | 59 |
| Engineering Properties of Soils and Materials | 5 | 60 | 66 | 1.2 | 69 | 70 | 61 |
| Soil Mechanics Analysis | 5 | 50 | 48 | 1.1 | 51 | 49 | 45 |
| Earthquake Engineering | 2 | 100 | 49 | 0.7 | 49 | 53 | 46 |
| Earth Structures | 4 | 50 | 59 | 1.0 | 61 | 61 | 55 |
| Shallow Foundations | 6 | 83 | 67 | 1.4 | 72 | 69 | 60 |
| Earth Retaining Structures | 6 | 25 | 52 | 1.5 | 56 | 50 | 49 |
| Deep Foundations | 4 | 88 | 67 | 1.0 | 70 | 67 | 64 |
| Other Topics | 5 | 70 | 71 | 1.1 | 72 | 71 | 67 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Civil | PM Exam: | Civil-Structural | | | | |
| | *Institution | National | Comparator Groupings | | | | |

| Examinees Taking | 4 | 562 | 336 | 75 | 114 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 3 | 372 | 247 | 41 | 58 | | |
| Examinees Passing % | 75 | 66 | 74 | 55 | 51 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 91 | 81 | 1.4 | 83 | 76 | 76 |
| Breadth - Geotechnical | 8 | 78 | 67 | 1.5 | 69 | 66 | 62 |
| Breadth - Structural | 8 | 97 | 89 | 1.2 | 91 | 88 | 87 |
| Breadth - Transportation | 8 | 88 | 77 | 1.6 | 80 | 70 | 73 |
| Breadth - Water Resources and Environmental | 8 | 91 | 77 | 1.6 | 80 | 71 | 72 |
| Loadings | 5 | 75 | 64 | 1.2 | 67 | 57 | 61 |
| Analysis | 5 | 90 | 67 | 1.3 | 69 | 61 | 65 |
| Mechanics of Materials | 5 | 85 | 73 | 1.1 | 75 | 71 | 67 |
| Materials | 5 | 75 | 71 | 1.0 | 73 | 66 | 68 |
| Member Design | 10 | 70 | 55 | 1.8 | 56 | 49 | 54 |
| Design Criteria | 5 | 65 | 62 | 1.2 | 65 | 58 | 56 |
| Other Topics | 5 | 80 | 67 | 1.1 | 68 | 62 | 66 |

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| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Civil | PM Exam: | Civil-Transportation | | | |
| | *Institution | National | Comparator Groupings | | | |

| | 29 | 2,180 | 1,252 | 347 | 491 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 17 | 1,041 | 679 | 152 | 172 | | |
| Examinees Passing | 59 | 48 | 54 | 44 | 35 | | |
| Examinees Passing % | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 80 | 72 | 1.4 | 73 | 71 | 68 |
| Breadth - Geotechnical | 8 | 60 | 56 | 1.5 | 58 | 57 | 53 |
| Breadth - Structural | 8 | 72 | 68 | 1.7 | 69 | 66 | 66 |
| Breadth - Transportation | 8 | 84 | 80 | 1.4 | 81 | 79 | 77 |
| Breadth - Water Resources and Environmental | 8 | 75 | 72 | 1.6 | 74 | 72 | 69 |
| Traffic Analysis | 9 | 66 | 63 | 1.7 | 65 | 63 | 58 |
| Geometric Design | 12 | 74 | 73 | 2.1 | 75 | 71 | 69 |
| Transportation Planning | 3 | 49 | 54 | 0.8 | 56 | 53 | 50 |
| Traffic Safety | 6 | 63 | 59 | 1.3 | 61 | 59 | 55 |
| Other Topics | 10 | 58 | 61 | 1.9 | 63 | 61 | 58 |

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| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Civil | PM Exam: | Civil-Water Resources_Environmental | | | | |
| | *Institution | | National | | Comparator Groupings | | |

| Examinees Taking | 9 | 1,465 | 771 | 244 | 363 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 5 | 775 | 487 | 113 | 132 | | |
| Examinees Passing % | 56 | 53 | 63 | 46 | 36 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 75 | 69 | 1.5 | 72 | 67 | 64 |
| Breadth - Geotechnical | 8 | 60 | 56 | 1.6 | 58 | 55 | 53 |
| Breadth - Structural | 8 | 68 | 67 | 1.7 | 70 | 62 | 64 |
| Breadth - Transportation | 8 | 72 | 71 | 1.7 | 74 | 69 | 67 |
| Breadth - Water Resources and Environmental | 8 | 81 | 80 | 1.4 | 83 | 78 | 75 |
| Hydraulics - Closed Conduit | 6 | 76 | 77 | 1.2 | 80 | 77 | 72 |
| Hydraulics - Open Channel | 6 | 72 | 72 | 1.1 | 74 | 73 | 68 |
| Hydrology | 6 | 71 | 72 | 1.3 | 75 | 71 | 68 |
| Groundwater and Well Fields | 3 | 70 | 65 | 0.9 | 67 | 63 | 61 |
| Wastewater Treatment | 6 | 59 | 57 | 1.6 | 62 | 55 | 49 |
| Water Quality | 6 | 74 | 68 | 1.3 | 71 | 65 | 64 |
| Water Treatment | 6 | 63 | 59 | 1.2 | 62 | 57 | 55 |
| Engineering Economics | 1 | 44 | 44 | 0.5 | 48 | 40 | 40 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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|---|--------------------|--------------|-------------------------|--|--|--|--|
| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Civil | PM Exam: | Structural I | | | | |
| | *Institution | National | Comparator Groupings | | | | |

| | 1 | 288 | 198 | 34 | 31 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 1 | 288 | 198 | 34 | 31 | | |
| Examinees Passing | 0 | 105 | 74 | 11 | 12 | | |
| Examinees Passing % | 0 | 36 | 37 | 32 | 39 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Analysis of Structures-Loads | 6 | 50 | 71 | 1.3 | 72 | 65 | 68 |
| Analysis of Structures-Lateral Forces | 6 | 33 | 56 | 1.2 | 56 | 56 | 53 |
| Analysis of Structures-Lateral Force Distribution | 9 | 33 | 63 | 1.5 | 63 | 64 | 62 |
| Analysis of Structures-Methods | 4 | 25 | 51 | 0.9 | 52 | 50 | 52 |
| Design and Details of Structures-General Structural C 6 | 6 | 50 | 62 | 1.0 | 62 | 64 | 62 |
| Design and Details of Structures-Steel (AISC-AASHT 14 | 14 | 29 | 53 | 2.2 | 53 | 54 | 53 |
| Design and Details of Structures-Concrete (AASHTO 13 | 13 | 54 | 58 | 2.3 | 59 | 57 | 58 |
| Design and Details of Structures-Wood (NDS-ASD) 7 | 7 | 29 | 50 | 1.6 | 51 | 53 | 44 |
| Design and Details of Structures-Masonry (ACI 530-L 7 | 7 | 43 | 71 | 1.4 | 72 | 68 | 69 |
| Design and Details of Structures-Foundations & Reta 8 | 8 | 50 | 61 | 1.8 | 61 | 61 | 61 |

* 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.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination
ABET - Accredited Programs

200804
6/23/2008

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|---|--------------------|--------------|--|--|--|--|
| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Electrical | PM Exam: | Electrical & Computer-Power | | | |
| | *Institution | National | Comparator Groupings | | | |

| | | | | | |
|---------------------|----|-----|-----|-----|-----|
| Examinees Taking | 7 | 784 | 357 | 133 | 213 |
| Examinees Passing | 4 | 402 | 204 | 57 | 101 |
| Examinees Passing % | 57 | 51 | 57 | 43 | 47 |

| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
|--|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Basic ELE - Professionalism and Engineering Econor | 2 | 79 | 79 | 0.6 | 80 | 76 | 82 |
| Basic ELE - Safety & Reliability | 3 | 95 | 76 | 0.7 | 79 | 75 | 74 |
| Basic ELE - Electric Circuits | 10 | 59 | 54 | 2.1 | 56 | 51 | 52 |
| Basic ELE - Electric & Magnetic Field Theory & Appli | 1 | 29 | 39 | 0.5 | 41 | 35 | 38 |
| Basic ELE - Computer Systems & Engr | 2 | 64 | 67 | 0.6 | 69 | 65 | 65 |
| Electronics, Circuits & Components - Components | 6 | 81 | 67 | 1.2 | 69 | 66 | 63 |
| Electronics, Circuits & Components - Materials | 2 | 93 | 75 | 0.7 | 78 | 75 | 71 |
| Controls & Communications Systems | 6 | 57 | 51 | 1.5 | 53 | 49 | 49 |
| Power - Transmission & Distribution | 5 | 71 | 60 | 1.2 | 61 | 59 | 57 |
| Power - Rotating Machines & Elecromagnetic Device | 3 | 52 | 49 | 0.9 | 55 | 46 | 45 |
| General Power - Measure, Instrument & Statistics | 2 | 29 | 44 | 0.8 | 45 | 44 | 41 |
| General Power - Special Applications | 1 | 86 | 75 | 0.4 | 78 | 78 | 69 |
| General Power - Codes, Standards & Special Appls | 3 | 72 | 61 | 0.9 | 64 | 63 | 57 |
| Circuit Analysis - Analysis | 6 | 48 | 58 | 1.3 | 59 | 55 | 55 |
| Circuit Analysis - Devices and Power Electronic Circu | 3 | 29 | 36 | 0.9 | 39 | 36 | 32 |
| Circuit Analysis - Electric and Magnetic Fields and Ap | 2 | 36 | 26 | 0.6 | 28 | 23 | 27 |
| Rotating Machines | 7 | 57 | 55 | 1.4 | 56 | 51 | 53 |
| Electromagnetic Devices | 4 | 43 | 42 | 1.0 | 43 | 41 | 39 |
| Transmission & Distrib - Systems Analysis | 6 | 31 | 35 | 1.2 | 36 | 35 | 34 |
| Transmission & Distrib - Power System Performance | 2 | 50 | 57 | 0.7 | 59 | 55 | 54 |
| Transmission & Distrib - Protection | 4 | 57 | 52 | 0.9 | 52 | 56 | 51 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination
ABET - Accredited Programs

200804
6/23/2008

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|---|--------------------|--------------|-------------------------|--|--|--|
| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Mechanical | PM Exam: | Mechanical-HVAC | | | |
| | *Institution | National | Comparator Groupings | | | |

| Examinees Taking | 2 | 420 | 232 | 64 | 93 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 2 | 279 | 172 | 33 | 55 | | |
| Examinees Passing % | 100 | 66 | 74 | 52 | 59 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| General - Codes & Standards - Engineering Principle 6 | 50 | 54 | 1.4 | 59 | 43 | 51 | |
| General - Codes & Standards - Fundamental Enginee | 5 | 56 | 1.0 | 58 | 50 | 54 | |
| General - Codes & Standards - Interpretation of Code | 1 | 46 | 0.5 | 47 | 36 | 51 | |
| Machine Design & Materials - Principles | 5 | 40 | 41 | 1.2 | 42 | 41 | 40 |
| Machine Design & Materials - Applications | 2 | 50 | 65 | 0.6 | 69 | 62 | 64 |
| Hydraulics & Fluids - Principles | 4 | 50 | 56 | 1.1 | 60 | 54 | 48 |
| Hydraulics & Fluids - Applications | 3 | 84 | 64 | 0.8 | 65 | 58 | 64 |
| Energy Conversion/Power Systems - Principles | 4 | 12 | 29 | 1.0 | 31 | 23 | 30 |
| Energy Conversion/Power Systems - Analysis of Sys | 3 | 33 | 33 | 0.8 | 35 | 29 | 31 |
| HVAC & Refrigeration - Principles | 7 | 86 | 70 | 1.6 | 72 | 70 | 70 |
| Fundamentals - Psychrometrics | 5 | 40 | 57 | 1.2 | 59 | 52 | 53 |
| Fundamentals - Principles | 9 | 50 | 55 | 1.8 | 59 | 50 | 51 |
| Equipment and Materials | 13 | 66 | 56 | 2.4 | 59 | 52 | 52 |
| Applications - Systems | 10 | 40 | 43 | 1.8 | 45 | 44 | 40 |
| Applications - Supportive Knowledges | 3 | 33 | 50 | 0.9 | 53 | 49 | 44 |

* 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.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination
ABET - Accredited Programs

200804
6/23/2008

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|---|--------------------|--------------|----------------------------------|--|--|--|
| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Mechanical | PM Exam: | Mechanical-Machine Design | | | |
| | *Institution | National | Comparator Groupings | | | |

| Examinees Taking | 3 | 368 | 214 | 59 | 65 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 2 | 200 | 121 | 30 | 27 | | |
| Examinees Passing % | 67 | 54 | 57 | 51 | 42 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| General - Codes & Standards - Engineering Principle 6 | 72 | 59 | 1.3 | 60 | 58 | 51 | |
| General - Codes & Standards - Fundamental Enginee | 40 | 58 | 1.0 | 59 | 54 | 57 | |
| General - Codes & Standards - Interpretation of Code | 1 | 67 | 62 | 0.5 | 64 | 54 | 60 |
| Machine Design & Materials - Principles | 5 | 47 | 53 | 1.1 | 54 | 54 | 47 |
| Machine Design & Materials - Applications | 2 | 67 | 73 | 0.6 | 73 | 72 | 74 |
| Hydraulics & Fluids - Principles | 4 | 42 | 52 | 1.1 | 53 | 53 | 43 |
| Hydraulics & Fluids - Applications | 3 | 56 | 52 | 0.8 | 53 | 53 | 51 |
| Energy Conversion/Power Systems - Principles | 4 | 50 | 30 | 1.0 | 30 | 30 | 26 |
| Energy Conversion/Power Systems - Analysis of Sys | 3 | 33 | 37 | 0.9 | 37 | 38 | 31 |
| HVAC & Refrigeration - Principles | 7 | 52 | 52 | 1.4 | 52 | 52 | 52 |
| Engineering Principles | 18 | 52 | 59 | 3.2 | 59 | 58 | 55 |
| Machine Design - Components | 14 | 45 | 51 | 2.6 | 52 | 50 | 50 |
| Applications - Systems | 4 | 42 | 57 | 1.0 | 57 | 58 | 53 |
| Applications - Supportive Knowledge | 4 | 67 | 53 | 1.1 | 55 | 50 | 50 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination
ABET - Accredited Programs

200804
6/23/2008

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|---|--------------------|--------------|--|--|----------------------|--|--|
| Graduate of | Engineering | | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | | |
| Board Code: | 71 | School Code: | 7101 | | | | |
| Major: | Mechanical | PM Exam: | Mechanical-Thermal & Fluids | | | | |
| | *Institution | | National | | Comparator Groupings | | |

| Examinees Taking | 3 | 358 | 191 | 52 | 86 | | |
|--|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Passing | 3 | 176 | 109 | 23 | 31 | | |
| Examinees Passing % | 100 | 49 | 57 | 44 | 36 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| General - Codes & Standards - Engineering Principle 6 | 50 | 58 | 58 | 1.3 | 60 | 58 | 53 |
| General - Codes & Standards - Fundamental Engine 5 | 53 | 53 | 53 | 1.1 | 57 | 51 | 47 |
| General - Codes & Standards - Interpretation of Code 1 | 100 | 56 | 56 | 0.5 | 59 | 52 | 51 |
| Machine Design & Materials - Principles | 5 | 47 | 43 | 1.1 | 44 | 42 | 41 |
| Machine Design & Materials - Applications | 2 | 50 | 66 | 0.6 | 68 | 67 | 62 |
| Hydraulics & Fluids - Principles | 4 | 50 | 60 | 1.1 | 60 | 58 | 59 |
| Hydraulics & Fluids - Applications | 3 | 56 | 61 | 0.8 | 64 | 60 | 57 |
| Energy Conversion/Power Systems - Principles | 4 | 50 | 36 | 1.0 | 37 | 35 | 35 |
| Energy Conversion/Power Systems - Analysis of Sys 3 | 33 | 33 | 37 | 0.9 | 40 | 39 | 31 |
| HVAC & Refrigeration - Principles | 7 | 52 | 58 | 1.6 | 61 | 54 | 52 |
| Fundamentals - Engineering Principles | 9 | 41 | 42 | 1.8 | 44 | 40 | 38 |
| Fundamentals - Supportive Knowledges | 4 | 58 | 43 | 1.0 | 45 | 42 | 41 |
| Components - Hydraulic System Components | 6 | 83 | 55 | 1.6 | 58 | 55 | 50 |
| Components - Power Plant Components | 8 | 75 | 50 | 1.9 | 51 | 51 | 46 |
| Applications - System Applications | 10 | 40 | 49 | 2.0 | 51 | 49 | 44 |
| Applications - Supportive Knowledges | 3 | 56 | 62 | 0.9 | 67 | 59 | 55 |

* 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.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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200804
6/23/2008

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|---|-----------------------|--------------|--|----------------------|--|--|
| Graduate of | Engineering | | | | | |
| Subject Matter Report by Major and PM Examination | | | | | | |
| Board: | Kentucky | Institution: | Kentucky_ University of | | | |
| Board Code: | 71 | School Code: | 7101 | | | |
| Major: | Mining/Mineral | PM Exam: | Civil-Water Resources_Environmental | | | |
| | *Institution | | National | Comparator Groupings | | |

| | 1 | 5 | 5 | 0 | 0 | | |
|---|------------------|---------------------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Examinees Taking | 1 | 5 | 5 | 0 | 0 | | |
| Examinees Passing | 0 | 0 | 0 | 0 | 0 | | |
| Examinees Passing % | 0 | 0 | 0 | 0 | 0 | | |
| | # Exam Questions | Institution AVG % Correct | National AVG % Correct | National Standard Deviation ** | Carnegie 1 AVG % Correct *** | Carnegie 2 AVG % Correct *** | Carnegie 3 AVG % Correct *** |
| Breadth - Construction | 8 | 62 | 75 | 0.7 | 75 | 0 | 0 |
| Breadth - Geotechnical | 8 | 25 | 47 | 1.1 | 47 | 0 | 0 |
| Breadth - Structural | 8 | 50 | 55 | 1.5 | 55 | 0 | 0 |
| Breadth - Transportation | 8 | 50 | 52 | 0.8 | 52 | 0 | 0 |
| Breadth - Water Resources and Environmental | 8 | 75 | 62 | 1.2 | 62 | 0 | 0 |
| Hydraulics - Closed Conduit | 6 | 83 | 77 | 1.1 | 77 | 0 | 0 |
| Hydraulics - Open Channel | 6 | 33 | 60 | 1.3 | 60 | 0 | 0 |
| Hydrology | 6 | 67 | 73 | 0.9 | 73 | 0 | 0 |
| Groundwater and Well Fields | 3 | 67 | 67 | 1.0 | 67 | 0 | 0 |
| Wastewater Treatment | 6 | 50 | 50 | 1.9 | 50 | 0 | 0 |
| Water Quality | 6 | 67 | 57 | 0.5 | 57 | 0 | 0 |
| Water Treatment | 6 | 67 | 57 | 0.9 | 57 | 0 | 0 |
| Engineering Economics | 1 | 0 | 20 | 0.4 | 20 | 0 | 0 |

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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