



Penn State New Kensington
PE/FE Engineering Review Programs
New Dates – 2011-2012

Programs can be customized and brought on-site to your workplace

We offer Continuing Education Courses (PDH's) for Licensed Professional Engineers and are an approved provider.

NEW this year — professional engineering courses for licensed engineers to meet their mandatory continuing education requirements. Classes will be held at the Penn State New Kensington Campus. New courses will be added each semester—check listings periodically. **Course outlines furnished upon request.**

WHY BECOME A LICENSED PROFESSIONAL ENGINEER?

All engineers must pass the Fundamentals of Engineering (FE) examination and obtain their Engineering-in-Training (EIT) designation as the first step toward licensure in the state of Pennsylvania. After passing this exam, the state requires four years of work in an engineering-related area to be eligible to take one of the PE exams. Leading Engineering Professionals who obtain the designation of a P. E. (Professional Engineer):

- ✚ Demonstrate the highest levels of dedication and professionalism in their field
- ✚ Increase their earnings potential by as much as 27 percent as compared to their non-licensed colleagues
- ✚ Qualified to perform engineering consulting in all 50 states. May help maintain employability in times of restructuring, downsizing, and outsourcing. (For more information: www.ncees.org)

WHY TAKE A REVIEW COURSE THROUGH PENN STATE?

Penn State has prepared engineers for their professional examinations for more than forty years.

- ✚ Reviews are comprehensive, covering many subjects in-depth.
- ✚ Programs employ a collection of problems and solutions from past exams, familiarizing students with formats and procedures. (All courses require students to spend some out of class time reviewing the material and solving homework problems.)

Student Comments from 2010 Programs

- ✓ *"I would like to thank you (and the other instructors of the Penn State review course) for your time and effort in preparing us for the exam. It worked! I passed. Thank you." -E.C. '10*
- ✓ *"Good Evening, I just wanted to let you know that I received the PE Exam Results on Thursday and I passed. My sister also passed. I just wanted to thank you for the thorough review that you gave and your dedication to the class. Thank You." - A.F. '10 & C.G. '10*
- ✓ *"Just wanted to let you guys know that the results are in, and you've got another PE you have helped to prepare." - M.E. '10*
- ✓ *"I wasn't going to take the FE / EIT test until October, but at the last minute I decided to try the April exam when I found out a course I wanted to take was offered this summer, and another course I wanted to take was offered in the fall. This was the 4th time I had taken the test, so I was able to register closer to the exam. I was a little behind on the work you assigned in class, so I focused on my weakest areas (economics, electronics, chemistry and thermo). After the test I was frustrated because I really felt I knew most of the material, but I got hung up on a few problems and got behind on the time in the morning portion. I remember thinking " oh well, at least I kept all the handouts from the review in a nice neat binder..." This past week however, I received a letter stating I had passed the exam. (I still plan on keeping the binder). I can't thank you enough. Your hand outs and lectures made the material easy to understand even though some of it was new to me. I don't think I ever would have passed the exam without attending your review. Thanks a million! I hope that other people in your review have had equal success! I am looking forward to taking the PE review in a few years (it's a shame experience has to be AFTER the FE / EIT!)" - R.M. '10*
- ✓ *"I just wanted to share the good news with you that I passed the P.E. exam on my first attempt. It was in no small part due to the help your review classes offered. Thanks for all the time you put in and the questions you answered to help me prepare."- M.T. '10*
- ✓ *"I received my results today. I passed! I can't express how much I appreciate you sharing your knowledge with me during the PE review class. I could not have passed without you. Not only did you prepare me for the exam, but you made me a better engineer. There are a handful of individuals over the years that I credit with influencing my career, and you are definitely one of them. Thanks again and keep in touch with me." - C.F '10*
- ✓ *"I received a letter from Engineering Examination Services notifying me I passed the Principles & Practice of Engineering Examination. Please accept by heartfelt thanks to all of you for helping me meet this goal." -J.G.'10*

PE/EIT Engineering Reviews 2011-2012

Location: Check on Registration Form for Review

Reviews are held from 6:00 to 9:00 pm unless noted otherwise.

All reviews are based on sufficient enrollment and are subject to change.



Prepare for April & October PE/FE Exam:

Environmental Review – 24 Wednesdays, April 11 to October 10, 2011 – 6:00 to 9:00 pm – Pittsburgh

Total= 72 hours

Topics Include:

○ Chemistry, Water Treatment, Fluid Mechanics: Fluid Statics and Flow, Hydraulics: Pumps, Open Channel Flow, Hydrology, Occupational Health & Safety and Regulations, Toxicology & Chemical Hazard, HVAC, Ventilation, Physical Hazard, Noise, Emergency Response, Hazardous Waste, Remediation, etc, Radiation, Chemical Equilibrium, Kinetics, and Reactor Design, Biological Treatment, Industrial Wastewater Treatment, Organic Loading & Oxygen Sag Model, Solid Waste, Groundwater Treatment, Groundwater Pumping, and Air Pollution

EIT Full Review – 26 Wednesdays, April 13 to October 5, 2011- 6:00 to 9:00 pm – Cranberry **26 Tuesdays, April 19 to October 11, 2011 – 6:00 to 9:00 pm – Monroeville** **26 Wednesdays, April 18 to October 17, 2012 - 6:00 to 9:00 pm - TBD**

Total= 78 hours

Topics Include:

○ Mathematics, Units and Statics, Mechanics of Materials, Dynamics, Chemistry, Thermodynamics/ Heat Transfer, Fluid Statics, Fluid Mechanics, Material Science/Chemistry, Electrical Circuits, Computers, Engineering Ethics, Engineering Economics, Biology

Mechanical PE Review – 23 Mondays, April 18 to October 17, 2011- 6:00 to 9:00 pm - Cranberry **23 Mondays, April 23 to October 8, 2012 – 6:00 to 9:00 pm - TBD**

Total= 69 hours

Topics Include:

○ Math, Engineering Economics, Fluids, Hydraulic Machines, Thermodynamics, Inorganic Chemistry, Fuels and Combustion, Energy/Work/Power, First and Second Laws, Power Cycles (Vapor/Combustion/Gas/ Refrigeration), Electricity, Heat Transfer, HVAC, Psychrometrics, Mechanical Systems – Statics, Indeterminate Statics/Materials, Materials/Strength of Materials, Beams/Failure Theories, Adv. Machine Design/Springs/Gears/Belts/Brakes/Pressure Vessels, Kinematics/Kinetics, Kinematics/Mechanisms/Power Transfer/Vibrating Systems, Manufacturing Systems, Processes and Quality Control

EIT Condensed Review – 12 Tuesdays, July 26 to October 18, 2011 – 6:00 to 9:00 pm – Cranberry **12 Tuesdays, January 10 to April 3, 2012 – 6:00 to 9:00 pm – Cranberry**

Total= 36 hours

Topics Include:

○ Mathematics, Units and Statics, Mechanics of Materials, Dynamics, Chemistry, Thermodynamics/ Heat Transfer, Fluid Statics, Fluid Mechanics, Material Science/Chemistry, Electrical Circuits, Computers, Engineering Ethics, Engineering Economics, Biology

Civil PE Review - 26 Thursdays, September 22, 2011 to March 29, 2012 - 6:00 to 9:00 pm – Pittsburgh

Total= 78 hours

Topics Include:

- Math, Economics/measurements/instrumentation, Geotechnical, Structures, Hydraulics, Water Supply, Sanitary, Solid/hazardous waste management, Transportation, Final Review/Exam taking techniques

NOTE: Preparation for the “Power” Exam

Electrical PE Power Review - 24 Thursdays, September 29, 2011 to April 5, 2012 - 6:00 to 9:00 pm

Total= 72 hours

Topics Include: **All subjects in NCEES PE “Power exam specifications are covered:**

- General Power Engineering – Measurement and Instrumentation, Special Applications, Codes and Standards
- Circuit Analysis – Analysis, Devices and Power Electronic Circuits
- Rotating Machines and Electromagnetic Devices
- Transmission and Distribution (High, Medium, and Low Voltage) – System Analysis, Power System Performance, Protection, Engineering Economics

NOTE: Preparation for the “Electrical and Electronics” Exam; ALSO, includes “Controls and Communications”

****FYI -- Please note comparison of Condensed vs. Full Reviews as requested by our Penn State Engineering Review faculty:**



"The full-length review remains Penn State's recommended option for maximum in-depth treatment of the subject areas covered by the examination. The condensed review covers selected topics in a compressed time frame and is a suitable alternative for candidates whose situations make participation in the full-length review impractical, or for candidates requiring only a brief refresher across the field of subject areas covered by the examination."

Every year there are thousands of engineers that want to begin the process to become Professional Engineers. To achieve that goal they must pass the FE (EIT) and the P&P (PE) exams. Why would some engineers need an in-depth, longer class time to review whereas others would need a fast-paced shorter length review? Because all candidates differ in: education (degree levels), engineering experience time, urgency to achieve the P.E. license, reasons for wanting to become a P.E. (current or future), time available to prepare for the exams (work schedules and travel that may dictate time available), etc.

Therefore, some candidates may feel they require a comprehensive, in-depth review requiring more class time whereas others may not have the time or may not feel they need the longer, in-depth review and would like a shorter fast-paced review. The decision by the candidate should be made only after having a clear understanding of the subjects covered and types of problems that will be expected to be on the exams. The longer, in-depth reviews will prepare the candidate better than the shorter, in-depth reviews but, as mentioned above, all candidates have different needs. Penn State offers FE (EIT) and P&P (PE) Reviews to accommodate all candidates: FE (EIT) in-depth reviews run 26 wks. The condensed reviews generally run 12 wks; and, P&P (PE) in-depth reviews run 24-26.

For more information or to register, contact the Office of Continuing Education:

724-334-6014
Nancy Miller
nlh3@psu.edu
www.nk.psu.edu

PENN STATE NEW KENSINGTON
PE / EIT Review Courses
2011 -2012 Schedule

These courses prepare engineers for their professional licensure and covers subjects that engineers should master in preparation for the examinations. **All courses subject to change and based on sufficient enrollments. Please check locations for reviews below. Classes run from 6:00 to 9:00 pm unless noted otherwise. Books ordered separately through our PPI Partners Page at 15% discount (NCEES books not included) at: www.ppipartner.com/LE048.** Schedule of topics for each review available upon request.

****Ask how a Professional Engineering Review course may be brought on-site to your company****

To register, **check review**, complete the registration form and return by mail, phone, email or fax.

PENN STATE CONTINUING EDUCATION REGISTRATION: *Deadline two weeks before class start*

To prepare for the October 28-29, 2011 exam (Register by July 1) (fees do not include books)

___	Environmental PE – 24 wk/72 hr, Mondays, April 11 to October 10, 2011 Location: Pittsburgh	\$ 995.00 by 3-25-11 \$1095.00 after 3-25-11
___	EIT Full Review - 26 wk/78 hr, Wednesdays, April 13 to October 5, 2011 Location: Cranberry	\$1095.00 by 3-25-11 \$1195.00 after 3-25-11
___	EIT Full Review – 26 wk/78 hr, Tuesdays, April 19 to October 11, 2011 Location: Monroeville	\$1095.00 by 3-25-11 \$1195.00 after 3-25-11
___	PE Mechanical – 23 wk/69 hr, Mondays, April 18 to October 17, 2011 Location: Cranberry	\$ 995.00 by 3-28-11 \$1095.00 after 3-28-11
___	EIT Condensed Review – 12 wk/36 hr, Tuesdays, July 26 to October 18, 2011	\$725.00 by 7-5-11 \$795.00 after 7-5-11

To prepare for the April , 2012 exam (Register by December 1) (fees do not include books)

___	PE Civil Review – 26 wk/78 hr, Thursdays, September 22, 2011 to March 29, 2012 Location: Pittsburgh	\$ TBD \$ TBD
___	Electrical Review – 24 wk/72 hr, Thursdays, September 29, 2011 to April 5, 2012 Location: TBD	\$ 995.00 by 9-12-11 \$1095.00 after 9-12-11
___	EIT Full Review - 26 wk/78 hr, Wednesdays, October 12, 2011 to April 11, 2012 Location: TBD	\$1095.00 by 9-23-11 \$1195.00 after 9-23-11
___	Mechanical Review – 23 wk/69 hr, Mondays, October 24, 2011 to April 9, 2012 Location: Cranberry	\$ 995.00 by 9-20-11 \$1095.00 after 9-20-11
___	EIT Condensed Review - 12 wk/36 hr, Tuesdays, January 10 to April 3, 2012 Location: Cranberry	\$ 725.00 by 12-16-11 \$795.00 after 12-16-11

**PENN STATE NEW KENSINGTON
PE / EIT Review Courses
2011 -2012 Schedule**

Last Name	First Name	M. I.	Today's Date
PSU #	M or F		Birth Date
Home Address (number, street or box #)	City	State	Zip Code
Company Name & Address	City	State	Zip Code
Home Telephone	Business Telephone		E-Mail Address

Please indicate which course/s and location you will be taking:

	Fee\$
	Fee\$

METHOD OF PAYMENT: There will be a \$50 cancellation fee assessed after classes resume. After 4 classes there will be NO REFUND.

Note if any discount applies _____

Check # _____ payable to Penn State University: \$ _____

Charge- Amount: \$ _____ Visa Mastercard
(Please phone or fax in credit card information)

Bill my company to the attention of: _____
(Must be accompanied by letter of authorization) Name/Title

RETURN REGISTRATION TO:

Penn State New Kensington
Continuing Education
3550 7th St. Rd.
New Kensington, PA 15068

Phone: 724-334-6010
Fax: 724-334-6110
Email: nlh3@psu.edu
Website: www.nk.psu.edu

Contact: Nancy Miller

Federal law requires that institutions of higher education gather the following information regarding the ethnicity and race of its students and employees. Your individual information will be kept strictly confidential. The law only requires institutions to report aggregate totals for each category.

Select the appropriate responses regarding your ethnicity and your race:

1. Is your **ethnicity** Hispanic/Latino (Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin)?
 Yes, Hispanic/Latino
 No, not Hispanic/Latino

2. What is your **race**? (Select one or more)
 White
 Black or African American
 Asian
 American Indian or Alaska Native
 Native Hawaiian or Other Pacific Islander