FAQ's

Why should I attend GEMS?
You'll get to do really cool stuff. You'll make new friends who also like science and math. And you'll get to learn from Penn students and professors!

When does GEMS take place?
Camp is from 9am-4pm from August 1st to August 5th on the Penn campus. Lunch is provided, transportation is NOT provided. Camp staff will meet campers at a drop off location and take them to their sessions each day.

How much does GEMS cost?
There is a $25 non-refundable application fee for each camper. If accepted, the cost of GEMS is $600 per participant. A limited amount of financial assistance is available. Contact the Camp Director for more information.

Who can apply?
If you are entering 7th, 8th or 9th grade in Fall 2011, are interested in math, science or engineering, and have at least a B average, you are encouraged to apply. Participants from previous GEMS camps are also eligible to return to the program as long as they are still in 7th or 8th grade.

How can I apply?
Applications are available at http://www.seas.upenn.edu/awe/gems/ Contact Michele Grab at 215-573-6487 if you would like a paper application. Applications, along with one (1) teacher recommendation and the $25 application fee are due by Friday, April 1st

For more information contact:
Michele Grab
Director, Advancing Women in Engineering Program
215-573-6487
mgrab@seas.upenn.edu
www.seas.upenn.edu/awe/gems/

PENN GEMS

Advancing Women in Engineering Program
School of Engineering & Applied Science
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PENN GEMS

GIRLS IN ENGINEERING
MATH & SCIENCE CAMP

August 1-5, 2011

For girls entering 7th, 8th & 9th
at the University of Pennsylvania

Penn Engineering

Calling all middle school girls in 6th, 7th or 8th grade!

PENN GEMS

Join us for a great week of hands-on science, math, and engineering at Penn! You'll participate in a wide variety of activities including Bioengineering, Nanotechnology, Materials Science, Mechanical Engineering, Graphics and Computing.

- Discover how engineers change lives!
- Make new friends and learn from Penn students!
- Experience engineering through challenging, hands-on activities with your fellow campers!

Students will be broken into groups and will participate in a variety of activities including:

Imagination to Animation
Love animated movies and video games? You'll learn some basic computer programming skills that any animation or game maker needs and leave with something to show your friends and family.

Nanotechnology: Size Matters
What is nanotechnology and why is everyone talking about it? You'll experiment with nano-materials, and study how these teeny tiny structures can change our everyday lives.

Mechanical Engineering in Action!
Try your hand at the exciting design process by working in a team to build your own structure or vehicle.

It's a Robot!
What is a robot? How does it work? Can I make it work? Learn the answers to these questions and more when you get to play with your own robot.

Glow in the Dark Science
Through hands-on labs, you'll learn about how engineers make cells light up to watch the way they move around the body, and you'll learn about how engineers are actually making body cells that fight disease!

What is Computer Science?
Computers, iPods, cell phones, websites, video games, animated movies, and robots are just a few things created by computer scientists. Learn how to think like a computer scientist and maybe even create a few things of your own!

Please note, activities are subject to change and not all participants will necessarily get to do all activities.

Why study Engineering?

Because you can make a difference in the lives of people and this planet!

- Engineers are creators, innovators, builders, and problem solvers. We are always thinking about how things work, and how we can make them work better. And we care a lot about improving people's lives and how to protect and preserve this planet.
- We design products and tools that improve people's lives: computers, MP3 players, cell phones, social networking websites, animations, roller coasters, space shuttles, Mars Rovers, prosthetic devices, fabrics for bulletproof vests, and fabrics that breathe for active wear (to name just a few).
- We help make the world a better place by finding alternative energy sources and designing highly fuel efficient cars to combat global warming.
- We work on the most difficult challenges that face human health and disease, such as cancer, HIV/AIDS, spinal cord injury, and we try to create better ways to diagnose and treat these diseases.
- We communicate, work in groups and teams, and are always learning new things as we work with people from all sorts of other fields, such as medicine, law, business, and psychology.