



Institute *of* Industrial Engineers

Rensselaer Chapter

Faculty Advisor

Prof. Mohamed
Aboul-Seoud
aboulm@rpi.edu

President

Meaghan Faraca
faracm@rpi.edu

Vice President

Maria Vallejo
vallem2@rpi.edu

Secretary

Scott Friedman
frieds2@rpi.edu

Treasurer

Ashley Phillips
philla2@rpi.edu

Events**Coordinator**

Scott Hamylak
hamyls@rpi.edu

Welcome back! And for first year students, welcome to RPI! I would like to take a few moments of your time and enlighten you about IIE, DSES, IME and every other acronym that involves Industrial Engineers. DSES is the Decision Sciences and Engineering Systems Department at RPI. IME is the undergraduate program for Industrial and Management Engineers. IIE is the Institute of Industrial Engineers, the largest professional society solely dedicated to the support of the Industrial Engineering profession, with more than 15,000 members and 280 chapters worldwide.

RPI's Chapter of IIE has many exciting goals and plans for the year ahead. This semester we are aiming to spread the word about IMEs. We want every student at RPI to know what an industrial engineer is, what they do, and why they are important in today's society. This newsletter will help break the ice on a few topics, such as why you should choose IME as a major at RPI, the skills necessary to succeed as an IME, and available careers with an IME degree. More information can be obtained at our meeting next week, September 20, in the Union in room 3606. Faculty and current IMEs will be present to share more information and answer any questions. If you are an undeclared engineering major, or looking to change majors, please stop by and see if Industrial Engineering is a good fit for you. I hope to see many faces, new and familiar. If you are unable to attend this meeting, but would like to be put on our mailing list for future activities, please email one of the officers.

Thank you for your time, and best wishes in all of your academic endeavors.

Sincerely,

Meaghan E. Faraca

President/Editor

Why IME?

We Have Skills that Make Us Great!

- Flexibility: IE gives you the opportunity to work in a variety of businesses
- Good math skills
- Strong time management skills
- Good common sense
- A strong desire for organization and efficiency, working with production lines and JIT and kanban systems
- Excellent communication/salesmanship
- Continuous drive for improvement
- Listening skills
- Negotiation skills
- Ability to adapt to many environments, wear many hats, and interact with a diverse group of individuals
- Inquisitive mind
- Leadership skills
- Ethics
- Passion for improvement
- Work to eliminate waste of time, money, materials, energy, and other commodities
- IEs save companies money.
- Big-picture thinker / Systems Integrator: It's an employee who takes what exists today and conceptualizes what should exist in the future
- Simulation modeling
- Time studies
- Implementing lean manufacturing concepts

DSES is One of the Best Departments on Campus!

- With a smaller department (only 22 Juniors), there are smaller class sizes and more student-professor interaction. Professors can actually learn their student's names, and know everyone outside of class as well. As of last year, there were 78 students total enrolled in the IME major program, with 15 professors, yielding a 5:1 student to faculty ratio.
- A less intensive course load as a core requirement also makes IME more appealing. IME majors take the traditional IED and freshman year requirements (IEA, Chemistry Principals, and CAD) but then begin to take more courses concentrated on statistics and modeling instead of the more well-known engineering courses like thermal fluids or dynamics.
- The male to female ratio within IME is much closer to 50/50 than any of the other majors with the exception of Biomedical Engineering.
- The IME department at RPI was recently ranked 18th nationwide by the US News and World Report.

Jobs Exist in a Myriad of Forms!

- Industrial engineering is a broad area where one can do many things. There are so many choices for an IME from manufacturing to consulting to being an analyst.
- An industrial engineer figures out ways to make improve processes and systems. The goal is to improve the workplace and save money while doing it.
- Sample jobs include: management engineer, ergonomist, operations analyst, and quality engineer.
- A management engineer would help employees manage their time better while still offering quality work; a management engineer may also work in facility layouts so it will be more productive.
- Ergonomics deal with the interaction of technological and work situations with human beings. An ergonomist tries to make the workplace a safer and more comfortable environment for its employees.
- An analyst may design different systems to improve the quality and productivity, while they may also work for a consulting firm.
- A quality engineer's focus is to improve quality, there are many opportunities for a quality engineer. You can take courses and get certified in Six Sigma.

DSES Contact Info

Website: <http://www.dses.rpi.edu>

The DSES department is located on the 5th floor of CII.

DSES main office

CII 5015

Monday-Friday 8-5.

518-276-2895

Student Operations Coordinator: Lee Vilardi
vilarl@rpi.edu
518-276-6681
CII 5007

Undergraduate Program Director: Prof Charles Malmborg
malmbc@rpi.edu
518-276-2935
CII 5123

Transfer Students

Advisor: Prof Charles Malmborg
malmbc@rpi.edu
518-276-2935
CII 5123

Class of 2006

Advisor: Prof William Foley
foleyw@rpi.edu
518-276 6837
CII 5211

Curriculum: <http://www.rpi.edu/dept/catalog/02-03/soe/soe-decision.html>

Class of 2007

Advisor: Prof Ananth Krishnamurthy
krisha@rpi.edu
518-276-2958
CII 5225

Curriculum: <http://www.rpi.edu/academics/catalog/pdf03-04/Engineering.pdf> (page 171 of the pdf)

Class of 2008

Advisor: Prof Mohamed Aboul-Seoud
aboulm@rpi.edu
518-276-2317
CII 5009

Curriculum: <http://www.rpi.edu/academics/catalog/pdf04-05/engineering.pdf> (page 42 of the pdf)

Class of 2009

Advisor: Prof Victor (Wai Kin) Chan
chanw@rpi.edu
518-276-2952
CII 5213

Curriculum: <http://www.rpi.edu/academics/catalog/pdf05-06/engineering.pdf> (page 41 of the pdf)