Reasons to come to UMass Lowell for Engineering

- Quality, hands-on, relevant education
- Experiential learning
- Quality Division II sports programs
- Innovative academic programs
- Outstanding value

Francis College of Engineering
Reasons to come to UMass Lowell for Engineering

- Quality, hands-on, relevant education
  - Rigorous courses, taught by faculty
    - Many hands-on lab-based and project-based learning
  - Many supplemental resources available to help you succeed
    - Centers for Learning, tutoring in Dept
  - Supportive Learning communities starting in First Year
    - cohorts of 20 students co-registered in 3 courses in the same section
Reasons to come to UMass Lowell for Engineering

• **Quality, hands-on, relevant education**
  • Valued by Employers – check payscale.com

• According to payscale.com, UMass Lowell grads have:
  • The **highest median mid-career salary** of any public school in New England
  • The **2nd highest median starting salary** of any public school in New England
  • The **2nd highest 30-yr “Return on Investment”** of any public school in New England
  • The **5th highest “Annualized Return on Investment”** of all public and private schools in Massachusetts
Valued by other Grad Schools - Some recent grads

Mary McCormick, BS ’06 Civil, MS ‘08 Tufts; currently PhD Tufts

Vicki Tran, BS ’06 Chem Eng currently PhD student U California Berkeley

Pirooz Kashi-Ghandi, BS ’04 Civil MS U California Berkeley ’05 Currently PhD student, UCLA

Diana Timpson, BS ’05 Civil MS Cornell ’06

Jessica Piper, BS ‘10 ECE Currently PhD student Stanford

Mesbah Haque, BS ’01 Civil MEng (2) MIT Former VP, Bank of America

Francis College of Engineering
Valued by our successful Alumni

Craig Miller,
President & Founder
Waterfield Design Group,
NSPE National Young Engineer of 2002
BS U Lowell

Joe Gandolfo
Fmr President and Worldwide CEO
Mattel Toy Company
BS Lowell Tech

Bill O'Shea
Fmr President, Bell Labs
CTO, Lucent Technologies
BS Lowell Tech

Lisa Brothers
Chief Operating Officer
Incoming CEO
Nitsch Engineering Inc
BS U Lowell

Francis College of Engineering
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- Quality, hands-on, relevant education
- Experiential learning
  - Unique Service-Learning program projects integrated throughout the curriculum
  - A national leader in Service-Learning with funding support by the National Science Foundation
  - “Real-world” projects help empower students to become more ethical, socially responsible citizens
Examples of Service-Learning activities

• Toys for Lions (All disciplines, 1st year):
  • Design toys for Stone Zoo to help keep captive animals “entertained”

• Lowell National Park displays (All disciplines, 1st year)
  • Design displays for LNHP to demonstrate electric power generation using water for middle school students

• World’s Largest Book (Mechanical, Electrical)
  • Help engineer robotic page-turner for 10’x12’ pages, with partner Groton-Dunstable Middle school

• Automated canal gate opener (Mechanical, Electrical)
  • Help automate opening/closing of gate in Lowell’s canals using remote-controlled device

• Assistive Technology (Electrical, Mechanical)
  • Design, build and deliver devices to improve quality of life for physically or mentally challenged individuals or groups

• Peru Village Empowerment Project (Mechanical, Civil)
  • Design & deliver infrastructure to remote Peruvian villages
Reasons to come to UMass Lowell for Engineering

• Quality, hands-on, relevant education
• Experiential learning
  – Service-Learning
  – Industrial Co-ops and Internships including Scholar-Intern (honors co-op) program
    • Integrated (summer) co-op in Plastics Engineering
    • Currently being integrated in other Departments
  – Research opportunities for undergraduates
    • Including guaranteed $4K/summer offers to select freshmen
    • NSF Center for High-Rate Nanomanufacturing
    • Massachusetts Biomanufacturing Center
    • Massachusetts Medical Device Development Center
    • Projects in renewable energy, photovoltaic materials, structural health monitoring, infrastructure, biosensors
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- Quality, hands-on, relevant education
- Experiential learning
- Quality Division II sports programs
  - You can succeed in Engineering AND varsity athletics
Quality NCAA Div II Athletics
(except men’s ice hockey – Div I)

Engineering students on varsity teams during 2007-08

Red=Dean’s list during 06-07  Blue=Commonwealth scholarship freshmen 07-08

- Matthew Bagdovitz, Plastics, golf
- Ryan Bean, Plastics, golf
- Jennifer Carr, Mechanical, track
- Molly Clay, Chemical, field hockey
- Sarah Coscia, Chemical, volleyball
- Broderick Griffiths, Electrical, track
- Kevin Hart, Electrical, soccer
- Rudolph Kocandrle, Civil, soccer
- Kyle Nuss, track
- Matthew Orsini, Computer, soccer
- Rex Radloff, Civil, X-country
- Nichole Rondeau, Mechanical, volleyball
- Melissa Seeley, Plastics, field hockey
  (2005 NCAA National champions)
- Thomas Thiesing, Mechanical, golf
- Peter Von Iderstine, Plastics, baseball
- Michelle Zielinski, Civil, softball
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- Innovative academic programs
  - Accelerated “Plus-One” BS/MS and BS/MEd programs
  - Minor in Business Administration for Engineers
  - Minor in Robotics (new Fall ‘10)
  - Plastics Engineering – unique in USA
    - focus on sustainable & biodegradable polymers
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Outstanding Value

• Lowest cost accredited Engineering program for a live-in Massachusetts student ($20,373*)
• 2nd lowest cost accredited Engineering program for a commuting Massachusetts student ($11,306*)
• Very competitive Regional Student Program
  • Tuition & fees: $17,359* ($26,426* incl room & board)
• MassInc** found that UMass Lowell has:
  • the lowest average “expected net price” of any UMass campus or 14 selected private universities in Massachusetts
  • The highest “index of Faculty-student ratio per dollar of expected net price” of all UMass campuses and 14 selected privates (ie access to faculty per student $)

* Rates for 2010-11