overview

• aspiration & key priorities
• planning process
• draft plan highlights
• undergraduate studies data
• undergraduate studies targets
• undergraduate studies objectives
• questions & feedback
Waterloo Engineering aspires to be a truly world-class school of engineering.

The programs we offer, the students we graduate, and the solutions we develop will be sought after by outstanding students, employers, employees and partners.
key priorities

• Attracting, engaging and retaining outstanding people: undergraduate students, graduate students, faculty & staff
• Committing to excellence in academic programs & services
• Undertaking high-impact research, both within and across the disciplines and spanning the theoretical to the practical
• Building connections and promoting collaboration
• Fostering innovation & entrepreneurship
• Providing the world-class facilities required to support excellence in education & research
planning process

academic units

aspiration & key priorities  self study  draft plan  internal feedback  revised draft plan  external assessment  final plan

administrative units

aspiration & key priorities  self study  draft plan  internal feedback  revised draft plan  summary for inclusion in Faculty plan  external assessment of Faculty plan  final plan for each unit & final Faculty plan

WATERLOO ENGINEERING
Faculty & Staff

- Increase faculty strategically: +20%
- Increase staff to appropriate levels: +25%
- Recognize excellence
- Improve internal communications
- Establish a culture of service excellence
- Support professional development
- Fully engage all faculty
Graduate Studies

- Strategically increase grad student intake: +44%
  - Introduce new programs and invest in recruitment
- Improve the graduate program
  - Foster consistently high quality supervision
  - Improve course offerings and academic rigour
- Enhance the graduate student experience
  - Waterloo Engineering Graduate Student Association
- Improve operations and service
draft plan highlights

♦ Research

• Increase research funding: +33%
  • Increase average funding/TTS faculty: +10%
• Establish a shared commitment
  • Improve industrial relations
  • Support and motivate increased activity
• Eliminate barriers
• Celebrate excellence
draft plan highlights

♦ Entrepreneurship
  • Enhance initiatives to foster entrepreneurial activity and innovation

♦ Outreach & Diversity
  • Expand outreach programs
  • Increase the participation of women
  • Build an inclusive atmosphere
draft plan highlights

♦ Internationalization
  • Increase international experience opportunities for undergraduates
  • Increase international research and graduate studies collaborations
  • Support the ongoing development of UAE campus programs
    • Increase international student intake
draft plan highlights

♦ Supporting the Plan
  • Faculty & Staff Positions
  • Budget
  • Space
    • Two new buildings (E7&E8) and DWE renovation
  • Technology
  • Advancement
    • Fundraising, strategic communications & marketing
undergraduate studies data

Undergraduate Enrolment Over Time

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<th>Women</th>
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<tr>
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Undergraduate Degrees Granted Over Time

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undergraduate studies data

Undergraduate Enrolment, Fall 2011

Undergraduate Degrees Granted, 2011
undergraduate studies targets

Undergraduate Intake Projections, 2011-2015

WATERLOO ENGINEERING
undergraduate studies objectives

Enhance the UG Academic Program

♦ Ensure a modern, high-quality learning environment
♦ Redesign and modernize the lab experience
♦ Foster consistently high quality teaching by all instructors
teaching objectives

Foster consistently high quality teaching by all instructors

♦ Enhance support for teaching
♦ Contribute to the development of faculty members and TAs as teachers
♦ Affirm the importance of teaching
undergraduate studies objectives

Support the Retention of UG Students

♦ Enhance first-year student success

♦ Support student success at all levels
undergraduate studies objectives

Improve the UG Student Experience

♦ Improve service and communications
♦ Enhance undergraduate processes
♦ Develop an annual student engagement survey
undergraduate studies objectives

Increase the Number of Co-op Jobs

♦ Implement a program-focused initiative to assist in job development
♦ Introduce two-term jobs for junior students
♦ Introduce eight-month work terms for senior students
♦ Develop additional international work term opportunities
undergraduate studies objectives

Provide Unemployed First Work Term Students a Meaningful Experience

♦ Develop a program to enhance the employability of unemployed first work term students during their next work term
undergraduate studies objectives

Support the Successful Implementation of WatPD-Engineering

♦ Ensure sufficient selection of current WatPD courses for engineering students

♦ Establish a framework to assess the WatPD-Engineering program’s effectiveness
undergraduate studies objectives

Ensure the Ongoing Accreditation of all Engineering Programs

♦ Implement a system of outcomes assessment for all programs

♦ Increase the proportion of eligible faculty members who are licensed professional engineers
Questions & Feedback
More Questions & Feedback?

To ask questions and share your thoughts after the presentation, email engineering.planning@uwaterloo.ca before April 16, 2012
We are confident that with the continued commitment and guidance of our senior leadership and the excellent work of all our students, faculty, staff, alumni and other community members, the Vision 2015 plan will help establish Waterloo Engineering as a truly world-class school of engineering.
THANK YOU