Construction Program at the University of British Columbia

Thomas Froese
First Global Leadership Forum for Construction Engineering and Management Programs
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Vancouver, Canada

- On Canada’s west coast, its 3rd largest city
- Rated “the most livable city in the world”
  The Economist Magazine
- 2010 Winter Olympics
- Very multicultural population
The University of British Columbia

- 35,000 undergrads; 7,500 graduate students
- One of Canada’s Top Universities, in world’s ‘Top 40’

Project & Construction Management at UBC

- Group within The Department of Civil Engineering
Faculty

- **Prof. Thomas Froese**, PhD (Stanford)
  - Assoc. Head, Undergraduate Programs
  - Construction Group Leader
  - Director, M.Eng, International Option

- **Prof. Alan Russell**, Ph.D. (M.I.T.),
  - Chair of Computer Integrated Construction

- **Assoc. Prof. Sheryl Staub-French**, PhD (Stanford)
  - Bauder Chair of Engineering Economics
  - Director of Engineering Management Option

Research Focus Areas

- **Construction IT**
  - Interoperability
  - BIM
  - Information Management
  - Project Planning and Control Systems

- **Project Delivery Systems**
  - Public-Private Partnerships
  - Economic and Risk Management

- **Sustainability**

- **Infrastructure Management**

- **Engineering Education**
**Undergraduate**

- One core & two elective course in civil eng. program
- Project management in team project/professional skills courses throughout program
- Active project-based, team-based, and community-service learning

**Graduate Programs**

- **Master of Engineering**
  - Non-thesis
  - About 40 students per year
- **Master of Applied Science**
  - Thesis
  - 5 Students
- **Ph.D.**
  - 12 students
Courses

- Construction Planning and Control
- Construction Case Studies and Production Management
- Construction Economics
- Project Management
- Construction Law
- Construction Information Systems
- 3D / 4D Modelling
- Project Delivery
- Introduction to building systems
- Sustainable Infrastructure Management

International Option

- First term in Beijing
International Option

Program completed in Vancouver

Graduate student numbers

Grad Students per Faculty Member

- Construction: 30.3
- Rest of Civil: 6.9
- Rest of Engineering: 3.7

Legend:
- All Grads Per Fac
- PhD per Fac
Hiring

Expect to be hiring one faculty and one instructor within the next year or two.