UNDERGRADUATE ENGINEERING EXCHANGE PROGRAMS

ADVANCE YOUR ENGINEERING DEGREE WHILE STUDYING ABROAD

THAYER SCHOOL OF ENGINEERING AT DARTMOUTH
EXCHANGE PROGRAM OVERVIEW

CHULALONGKORN UNIVERSITY, BANGKOK, THAILAND

CHINESE UNIVERSITY OF HONG KONG

TECHNICAL UNIVERSITY OF DENMARK*
LYNGBY, DENMARK

- 9 Dartmouth students exchange with 3 students from Chula, 3 from CUHK and 3 students from DTU

- Designed for 3rd year students from Dartmouth and 3rd or 4th year students from Chula, CUHK and DTU

*Pending final approval by Dartmouth COCA, COC, COP committees by Jan. 2016
WHY CHULA, CUHK & DTU?

Exchange with regions that are
• Culturally different
• Experiencing rapid technology development/growth
• Safe and interesting for students

Exchange with schools that
• Have a high quality program and student profile
• Have native faculty teach engineering in English
• Have good support for exchange students
• Have curriculum that complements or is broader than Thayer’s
CHULALONGKORN UNIVERSITY (CHULA)

- Oldest university in Thailand and generally considered to be the most prestigious
- Named after King Chulalongkorn (Rama V)
- Located on 500+ acre campus in center of Bangkok
- Over 19,000 undergraduates and about 10,000 graduate students
- 18 faculties, including Faculty of Engineering (est. 1913)
CHULA’S INTERNATIONAL SCHOOL OF ENGINEERING (ISE)

- English-language undergraduate engineering program
- First class admitted in 2005
- Very competitive entrance exam, with emphasis on science and math
- 200 students per class

SPECIALIZATIONS AT ISE

- Nanoengineering
- Information and Communication Engineering
- Automotive Engineering
- Aerospace Engineering
COURSES DARTMOUTH STUDENTS HAVE TAKEN AT CHULA

- Foundations of Biochemistry
- Science of Materials
- Aerodynamics
- Mechanical Solids
- Intro to Linear & Digital Circuits
- Computer-Aided Design
- Failure Mode and Effect Analysis
- Statistical Methods in Engineering
- Product Development Process
- Statistical Thermodynamics
CHINESE UNIVERSITY OF HONG KONG (CUHK)

- “A forward looking comprehensive research university with a global vision and a mission to combine tradition with modernity, and to bring together China and the West.”

- >20,000 undergrad and postgrads, 3000 from outside of Hong Kong

- College system with a focus on bilingualism and multiculturalism

- Eight faculties including Faculty of Engineering
EXCHANGE PROGRAMS AT CUHK

• First Hong Kong university to have an international exchange program (1965)
• Has close to 110 exchange partners
• Sends 300/receives 400 per year
• Engineering exchange program began in 2004

ENGINEERING DEPARTMENTS

• Biomedical Engineering
• Computer Engineering
• Electronic Engineering
• Information Engineering
• Mechanical and Automation Engineering
• Systems Engineering and Engineering Management
COURSES DARTMOUTH STUDENTS HAVE TAKEN AT CUHK

- Advanced Energy Technologies
- Control Systems
- Data Structures
- Discrete & Probabilistic Systems
- Dynamic Optimization & Applications
- Globalization and International Politics
- Introduction to Energy and Environment
- Introduction to Robotics
- Microcomputer Systems
- Microprocessors
- Principles of Communication
TECHNICAL UNIVERSITY OF DENMARK (DTU)

- Founded in 1829
- Renowned for its business-oriented approach and its focus on sustainability
- Approximately 10,000 students (including 2,000 international students)
- Main campus in Lyngby, 15 km south of Copenhagen
TECHNICAL UNIVERSITY OF DENMARK ENGINEERING PROGRAM

• Approx. 500 courses taught in English
• Dartmouth students can select from BSc or MSc courses (prerequisites must be met)
• Teacher/researcher to student ratio 1:4
• Emphasis on combining theory and practice via project and lab work

ENGINEERING DEPARTMENTS (w/courses in English)

• Civil
• Chemical
• Electrical
• Environmental
• Management
• Mechanical
• Photonics

• Also Applied Mathematics and Computer Science, Micro and Nanotechnology, Chemistry, Physics, Systems Biology and others
CONTACTS & APPLICATION PROCESS

CONTACTS

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HOW TO APPLY

• Dartmouth students apply by February 1 of sophomore year for an exchange term in junior year

• Applications submitted through Dartmouth’s Off-Campus Programs Office

• Deadline – February 1, 2016 for 2016-2017 academic year (2018’s)

• Participating students selected by end of winter term
ENROLLMENT

Chula
• Dartmouth winter term (an X-term) and spring term (an L-term)
• Corresponds to Chula’s second semester (early Jan until early May)

CUHK
• Dartmouth fall term
• Corresponds to CUHK’s first term (early Sept until late Dec)

DTU
• Dartmouth fall term (late summer departure) or Dartmouth winter term (an X-term) and spring term (an L-term)
• Corresponds to DTU’s autumn semester (late Aug until late Dec) and spring semesters (late Jan to early Jun)
COURSES AND TRANSFER CREDIT

At least four courses

• Four engineering courses in English

• Option to take an additional non-transferrable course including languages
  - Chula: Thai language course, non-credit “survival Thai” 2hrs/wk for 5 wks
  - CUHK: any Chinese language course available to International students
  - DTU: a three-week intensive Danish language and cultural course and free Danish language course during the semester

Transfer up to four course credits to Dartmouth

• Need a grade of at least C and the course must have been approved beforehand (term prior to enrollment)

• Four courses toward A.B. degree requirements

• Two courses used for credit towards Engineering Sciences major

• Up to two of the other courses used in satisfaction of Bachelor of Engineering degree requirements.
FINANCIAL IMPLICATIONS

• No tuition paid to host institution

• Estimated Expenses:
  
  • Chula - $3200 for a semester, including room, board, books, local transportation; plus roundtrip transportation to Bangkok: approx. $800-$1000*

  • CUHK - $4000 for a semester, including room, board, books, local transportation; plus round trip transportation to Hong Kong: approx. $800-$1000*

  • DTU- TBD for a semester, including room, board, books, local transportation; plus round trip transportation to Copenhagen: approx. $800- $1000*

  • Any scholarship aid granted by Dartmouth will continue while on exchange

* Source: Kayak.com, BOS to Hong Kong, Bangkok and Copenhagen Oct. 2015
VISA, HEALTH INSURANCE, ETC.

- Need passport valid for at least three months past the end of exchange

- Chula, CUHK and DTU will provide necessary documentation for visa

- Student responsible for obtaining necessary visa.

- Must be covered by health insurance (i.e. Dartmouth Student Health Insurance Plan)
PHOTOS FROM AROUND CHULA
QUESTIONS?