Bucknell Study Abroad in Chemical Engineering

Profs. Raymond & Prince
International Advising Info Session
October 2\textsuperscript{nd} 2014
Why Study Abroad?

• One of the BEST experiences you can have
• Once in a lifetime opportunity
• About the same cost as being at Bucknell
• Explore your world and diverse cultures
• Programs are largely setup for you
• Use the opportunity to travel to other places
• You’ll probably regret it if you don’t do it
• One of the BEST experiences you can have
What about Classes?

- You’ll meet all Bucknell requirements and come back “on track” with your classmates
- All classes taught in English
- Passing with a “C” transfers credit, not grades
- Most classes graded based largely/entirely on a comprehensive final exam
- You can take Soc/Hum credits as well as CHEG 4XX electives
What are the Options?

• Spring (2nd) Semester Sophomore Year
• Either Semester Junior Year (most popular)
• Full Year (Spring Sophomore thru Fall Junior)
• Full Year (All Junior Year)
• Summer After Sophomore and/or Junior Years
What are the Destinations?

England/Ireland

Australia

New Zealand
What are the Destinations?

Dublin
Nottingham
What are the Destinations?

Queensland

UNSW

Melbourne
What are the Destinations?

Canterbury
What do I need to Know?

• Most financial aid can be applied to study abroad – check with the Financial Aid Office.
• You will generally get your choice of semesters (non-engineers often do not).
• You must have a good GPA – 2.8 is the absolute minimum. 3.0 is desired and sometimes required.
What are Possible Challenges?

• Most universities abroad do not have weekly homework assignments or frequent exams
• It is up to YOU to keep up with course material
• It is easy to “slack” until Final Exam time and then you are in trouble (too hard to catch up)
• Grading is more stringent than at BU (80% is considered really good most places)
• If you fail a required class, it is hard to make up
• While we match course content well, it is never a perfect match – you may have missed a few things
• Time conflicts do occur and are hard to predict
How do I Begin?

• Go here:
  – Sophomores interested in studying off-campus must review the [Intent to Study Off-Campus Policy](#) and complete the Intent to Study Off-Campus form by October 4th 2014.
    – **No later than October 4th – Do It TODAY!**
    – If you are not absolutely certain of which semester, put down **Both** or **just Spring** (it’s easier to switch this way if necessary).

• Questions? Contact: Jen Fritz, [jef025@bucknell.edu](mailto:jef025@bucknell.edu), 1A Botany Bldg
## Overview of Options/Course Matches

### Bucknell Course Matches at International Institutions

<table>
<thead>
<tr>
<th>BU Code</th>
<th>BU Title</th>
<th>BU Year</th>
<th>BU Sem</th>
<th>Nottingam (England)</th>
<th>Dublin (Ireland)</th>
<th>Canterbury (New Zealand)</th>
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<tbody>
<tr>
<td>CHEM 212</td>
<td>Organic Chemistry 2</td>
<td>Sophomore</td>
<td>Spring</td>
<td>CHEM20018</td>
<td>CHEM2050</td>
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<td>Sophomore</td>
<td>Spring</td>
<td>MAST20029</td>
<td>MATH2000</td>
<td>Take MECH 312 in Spring</td>
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<tr>
<td>ENGR 233</td>
<td>Fluid Mechanics</td>
<td>Sophomore</td>
<td>Spring</td>
<td>ENGR30001</td>
<td>CIVL3130 or MINE2101</td>
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<tr>
<td>CHEG 343</td>
<td>Physical Chemistry</td>
<td>Junior</td>
<td>Fall</td>
<td>CHEM2056</td>
<td>MATH2089 or MATH2091</td>
<td>Chee 3004</td>
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<tr>
<td>CHEG 300</td>
<td>Heat &amp; Mass Transfer</td>
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<td>Fall</td>
<td>CHEE3003</td>
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<td></td>
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<td>CHEG 302</td>
<td>Equilibrium Stage Processes</td>
<td>Junior</td>
<td>Fall</td>
<td>MARS 2005 for BIOL 2TR</td>
<td>BABS1201 for BIOL 205</td>
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<td>Thermodynamics</td>
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<td>Unit Operations</td>
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### Melbourne (Australia)

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<th>BU Sem</th>
<th>Melbourne (Australia)</th>
<th>University of Queensland (Australia)</th>
<th>UNSW (Australia)</th>
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NEW(ish) – Spring Sophomore Year

• Courses to Meet:
  – CHEM 212 (Organic Chemistry II)
  – CHEM 231 (Analytical Chemistry)
  – CHEG 210 (Differential Equations)
  – ENGR 233 (Fluid Mechanics)

• Destination Options:
  – Melbourne, Australia
  – Nottingham, UK
  – Queensland, Australia
Junior Year – Fall Only (Most Choice)

• Courses to Meet:
  – CHEM 343 (Physical Chemistry)
  – CHEG 300 (Heat & Mass Transfer)
  – CHEG 302 (Equilibrium Stage Processes)

• Destination Options:
  – Queensland, Australia
  – Canterbury, New Zealand
  – University College Dublin, Ireland
Junior Year – Spring Only

• Courses to Meet:
  – CHEG 310 (Thermodynamics)
  – CHEG 315 (Unit Operations)

• Destination:
  – UNSW, Australia
Junior Year – All Year

• Courses to Meet:
  – CHEG 300 (Heat & Mass Transfer)
  – CHEG 302 (Equilibrium Stage Processes)
  – CHEG 310 (Thermodynamics)
  – CHEG 315 (Unit Operations)
  – CHEM 343 (Physical Chemistry)

• Potential Destinations
  – Queensland, UNSW, Melbourne, Nottingham, Dublin, Canterbury
  – Just about anywhere with a ChemE Program!
Other Notes

- Consider “backup” options – things change
- You can go to other places provided we can find course matches in the right semester
- If you have transfer/AP credit, you might be able to go to more places at different times
- If you plan ahead and take some classes early or late, you may be able to go ANYWHERE to take all Non-Engineering classes
Example: Queensland, Australia - Fall

• Bucknell’s Fall Semester = Semester 2 there
  – July 22 – November 19
  – Courses to take:
    • CHEM 2056 → CHEM 343
    • CHEE 3004 → CHEG 302
    • Take MECH 312 in Spring at BU → CHEG 300
  – Electives to consider:
    • MARS 2005 → marine biology course/science elective
    • BIOL 1028 → counts for BIOL 205 bioscience elective
Example: UNSW, Australia - Spring

• Bucknell’s Spring Semester = Semester 1 there
  – February 21 – June 25
  – Courses to take:
    • CEIC2000 & CEIC3001 → CHEG 310
    • CEIC3003 → CHEG 315