What will you choose to do next year?

Introduction to the Part II Options
information presentations

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Deputy Head (Teaching)
Structure of the Cambridge Engineering Course

First year
- Engineering

Second year
- Engineering

Third year
- Engineering
- Exchange year at CSP / NUS
- Manufacturing Engineering

Fourth Year
- Engineering

Graduate B.A. M.Eng.
What next?

You need to make some decisions

Questions you might ask yourself include:

What bits of the course do you enjoy and find interesting?
   Are you good at them?

What do you want to do when you graduate?
   What modules would help your proposed career path?

If you’re intending to go into an engineering career:
   Do you have a ‘feel’ for what skills/knowledge will be needed?

+ lots more!

How do you find out?
Options talks this term
Look at Moodle sites for modules in which you’re interested (self-enrol)
Talk with other students, DoS, etc
You must choose 5 modules in each of Michaelmas and Lent Terms.

Preliminary choices on-line (COMET) between mid-May and 14 June

To qualify in a particular Engineering Area you need to take at least six modules from that area (details in Options Document).

- Mechanical Engineering
- Energy, Sustainability and the Environment
- Aerospace and Aerothermal Engineering
- Civil, Structural and Environmental Engineering
- Electrical and Electronic Engineering
- Electrical and Information Sciences (at least 8)
- Information and Computer Engineering
- Instrumentation and Control
- Bioengineering
- Engineering

You may qualify in more than one area. But you don’t have to qualify in any area, in which case your degree will be ‘Engineering’.

At the end of IIA you have fulfilled the requirements for the Cambridge BA, but you do not take your degree until after IIB when you graduate BA, MEng.
## Engineering Tripos Part IIA 2016

### Class I

<table>
<thead>
<tr>
<th>Asbo, A.</th>
<th>COL</th>
<th>Crumble, C.</th>
<th>COL</th>
<th>Eggfroth, E.</th>
<th>COL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bimbo, B.</td>
<td></td>
<td>Dimwit, D.</td>
<td></td>
<td>Floozie, F.</td>
<td></td>
</tr>
</tbody>
</table>

### Class II

#### Division 1

<table>
<thead>
<tr>
<th>Gormless, G.</th>
<th>COL</th>
<th>Imbecile, I.</th>
<th>COL</th>
<th>Krakpot, K.</th>
<th>COL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horseface, H.</td>
<td></td>
<td>Jellybean, J.</td>
<td></td>
<td>Lambkin, L.</td>
<td></td>
</tr>
</tbody>
</table>

#### Division 2

<table>
<thead>
<tr>
<th>Munchkin, M.</th>
<th>COL</th>
<th>Numbskull, N.</th>
<th>COL</th>
<th>O’Other, O.</th>
<th>COL</th>
</tr>
</thead>
</table>

### Class III

<table>
<thead>
<tr>
<th>Pussycat, P.</th>
<th>COL</th>
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Superscripts designate candidates who have fulfilled the requirements for the following engineering areas:

1. Mechanical Engineering
2. Energy, Sustainability and the Environment
3. Aerospace and Aerothermal Engineering
4. Civil, Structural and Environmental Engineering
5. Electrical and Electronic Engineering
6. Information and Computer Engineering
7. Electrical and Information Sciences
8. Instrumentation and Control
9. Bioengineering
Engineering Tripos Part IIB

- Choose 8 modules (4+4, 5+3 or even 6+2 in Mich + Lent) from more than 80.
- Modules typically given at 2 lectures per week.
- Need at least 4 modules from a group to qualify for an ‘Engineering Area’.
- Your Engineering Areas are often the same for IIA and IIB, but don’t have to be.
- Major individual project runs throughout the year.
Manufacturing Engineering Part IIA
Industrial Experience

You *must* have completed six weeks of certified industrial experience before June of your third year

What are the requirements?

Minimum 6 weeks relevant experience.
Work of a technical nature related to subjects studied in Engineering (or Manufacturing Engineering)
Pre-university placements can contribute to requirements.

Examples of recent placements

• Working in a research team (industrial or academic): doing experiments, analysing results, preparing a report, presenting findings
  • Analysing a manufacturing production process and recommending improvements
  • Reviewing and checking structural design calculations
  • Researching, designing, making and testing products
  • Undertaking a software development project
  • Technical leadership programme with the military

Where do I find the information I need?

• Weekly internship vacancies newsletter
• www.placements.eng.cam.ac.uk
• Vicky Houghton, Industrial Placements Coordinator at placements-coordinator@eng.cam.ac.uk
Engineering requires two management (usually Group E) modules during the two years of Part II. ICE/IStructE allow 4D16 (currently offered every other year).

**Engineering Tripos** accredited by:
- Institution of Civil Engineers
- Institution of Structural Engineers
- Chartered Institution of Highways & Transportation
- Institution of Highway Engineers
- Institution of Engineering & Technology
- Royal Aeronautical Society
- Institution of Mechanical Engineers
- Institute of Measurement and Control
- Institute of Physics and Engineering in Medicine

**Manufacturing Engineering Tripos:**
- Institution of Engineering & Technology
- Institution of Mechanical Engineers
Timetable of Lent Term talks

Today

Manufacturing Engineering Tripos
(Presentation followed by lunch)

Tuesday 12th
1.00pm

Electrical Engineering (+ lunch!)
Civil, Structural & Environmental Engineering
Mechanical & Materials Engineering
Fluid Mechanics, Thermodynamics & Energy

Tuesday 19th
2.00pm

Information Engineering
Bioengineering
Engineering Management