Welcome to Aeronautics

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Director of Undergraduate Studies

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Our Mission

“To train and prepare the future leaders in aeronautics”

Otto Lilienthal’s Ornithopter, 16 August 1894, Rhinow, Germany
Our Mission

“To train and prepare the future leaders in aeronautics”

Kelly Johnson (1910-1990), Director of Lockheed Skunk Works
What is your Goal?

https://www.mentimeter.com/s/99c2e3dc403d9f8d79b485c7f4b2c3b4/8b7220bf1c44/edit
How to get there?

Take responsibility of your learning…

…and that means that you’ll make mistakes!

Learn from your mistakes!

Apollo 1

Apollo 11
How to get there?

Airliner Accidents Per 1 Million Flights 1977-2017

Learn from your mistakes!
Get to know how the system works!

- Undergraduate Student Handbook
  [www.imperial.ac.uk/engineering/departments/aeronautics/study/ug/current-students](http://www.imperial.ac.uk/engineering/departments/aeronautics/study/ug/current-students)

- Personal tutors
  - Every Monday.

- Course lecturers
  - Via email or in office hours.

- Blackboard
  [https://bb.imperial.ac.uk](https://bb.imperial.ac.uk)

- ... And please check your email daily!!
Overview of Year 1

AE1-101  Introduction to Aerodynamics
AE1-102  Aircraft Performance
AE1-103  Computing (CW)
AE1-104  Engineering Design (CW)
AE1-106  Properties of Materials
AE1-107  Mathematics
AE1-109  Mechanics
AE1-110  Introduction to Structural Analysis
AE1-111  Thermodynamics
AE1-112  Engineering Ethics (CW)
AE1-112  Experimental Methods (CW)
AE1-114  L1 Applications (CW)
AE1-116  Introduction to Management * or
HUM1    Languages
Manage your time

• Understand your timetable – Plan for the long term
  *All major deadlines are on the “year at a glance” page*

• You need to spend time **working** over your notes
  *‘Going over’ work on lecture notes best done immediately*

• Several hours minimum for each tutorial sheet
  *Keep up to date with tutorial problems*

• Aim to understand the concept and how to apply it. Good engineers do not just memorize everything!

• Effort vs. reward
  - Prioritize tasks
  - Spread effort across all subjects
  - Spread effort across the year

• **Keep digital back-ups** of coursework, reports, etc.
iPads

IT'S OVER, BOOK... YOU'RE AN INFERIOR TECHNOLOGY.

YOUR BIG, CLUNKY FORMAT IS IRRELEVANT.

JUST A NIP OF THIS FLAME AND YOU'D BE GONE FOREVER!

tap
On Thursday you will be issued with:

- iPad 9.7’ – 32 GB
- Protective case
- Apple Pencil

Information on how to set up will be on [aero-learn.imperial.ac.uk](http://aero-learn.imperial.ac.uk)

Remember to:

- Keep the devices charged ahead of lectures
  - *Charging cabinets in the UG common room*
- Have pen & paper handy in case something goes wrong
- Backup your notes & work
  - *Your Office 365 account comes with significant OneDrive storage*
Feedback (on your work)

A: You

B: Many components
1. Progress tests
2. Personal tutors
3. Marked reports
4. Feedback sessions
5. Office hours
6. Q&A in lectures
7. Group work
8. January exam results
9. Feedback Forum in BlackBoard
10. ...

IMPORTANT: Participate, ask questions
A: The Aeronautics Department

B: You

1. After lectures
2. Via personal tutors
3. Via student reps
4. Staff/Student Meeting
5. SOLE (Student On-Line Evaluation)
6. NSS (National Student Survey)
7. ...

IMPORTANT: Raise any issues early and (please!) be constructive
Typical path would go as follows:

1. Talk to the originator (typically a Graduate Teaching Assistant)

2. Talk to the lecturer in charge of the course

3. If more needed, either:
   a) Talk to your personal tutor
   b) Talk to your colleagues – raise common issues via student reps

4. Talk to Senior Tutor or DUGS
<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
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</tr>
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</tr>
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</tr>
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</tr>
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</tbody>
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Visiting your old school?

By becoming an **Imperial Schools Ambassador Scheme**, you can represent Imperial and inspire prospective students.

• Return to your former school to deliver a presentation about life at the College
• Visit other schools and colleges in the UK as a representative
• Training and presentation advice provided
• Travel expenses provided

If you are interested in participating, please get in touch with Jennie Long:
visit@imperial.ac.uk
President’s Ambassador Scheme

If you are interested in representing Imperial on campus and meeting new people then this role is for you.

You will be called on to help with a number of activities throughout the year including:

• guiding official Imperial tours;
• meeting and greeting delegations of international visitors and;
• ushering at special Imperial occasions.

If you are interested, please contact Jennie Long: presidentsambassadors@imperial.ac.uk
Both Academic and Wellbeing Reps will be expected to sit on student-staff committees, represent the voice of students within their cohort and be able to appropriately signpost students to appropriate internal and external support services. If it is apparent that the root of an issue raised by a student is more relevant to the other network, reps should be feeding this information back to the relevant network.
“Imagination is more important that knowledge…”

“…For knowledge is limited, whereas imagination embraces the entire world, stimulating progress, giving birth to evolution.”

(Albert Einstein, 1929)

https://www.youtube.com/watch?v=Qlqe1DXnJKQ