

Imperial College
London

Faculty of Engineering
Department of Aeronautics

Third and Fourth Year H41E Exchange

Student Handbook

2021-22

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Changes due to Coronavirus (COVID-19)

The College will keep you informed about any further changes that may affect you due to the impact of coronavirus (COVID-19). The COVID-19 FAQs on the website are a repository of helpful information and the latest guidance can be found at:

 <https://www.imperial.ac.uk/about/covid-19/>

1. Introduction and Welcome from Exchange/Erasmus Coordinator

Welcome to the Aeronautics Department at Imperial College. In this handbook you will only find information specifically for exchange students following our third and fourth year H41E exchange programmes. Generic information for all programmes can be found in our MEng Student Handbook which can be found on our website for current students.

 <http://www.imperial.ac.uk/aeronautics/study/ug/current-students/>

You are expected to read both handbooks carefully and they will be your first point of reference for any queries along with information provided on our current student's website. This handbook is continually being updated so always check for the latest version online.

Welcome from Programme Coordinator Dr Maria Ribera Vicent



It is my pleasure to welcome you to the Department of Aeronautics, Imperial College London. You can easily contact me on my email and please feel free to drop by my office during my office hours for any academic related issues to discuss. I understand that this may be your first time being away from your family and coming to a different country, but I do hope you make the most of the opportunities you can get in London generally, and in Imperial specifically. For fourth year H41E Erasmus students we have the Imperial's Erasmus Club which you can join for year-around events and talks, and most importantly to build your own social network. Finally, I wish you all a great year at Imperial and all the best in your studies.

2. Department and College Contacts

2.1 Department Exchange/Erasmus Co-ordinator

Your initial contact with the academic staff of this Department will be through the Exchange/Erasmus Co-ordinator (Dr Maria Ribera Vicent, Room 139, City and Guilds Building, Tel: +44 (0)20 7594 5103; email: m.ribera-vicent@imperial.ac.uk). She will in effect be your personal tutor and will be happy to see you at any convenient time to offer advice on any personal or academic problems you may have.

2.2 Undergraduate Office (CAGB 310)

This office is led by the Undergraduate Office Manager Miss Jackie O'Neill and supported by two Undergraduate Administrators, Ms Jie Du and Mrs Shirin Yoosoofsah.

Our office opening hours are published every Friday after 4pm for the following week on our [Undergraduate Virtual Office on MS Teams](#).

Students are asked to email all queries in the first instance to the UG Office account ae.office@imperial.ac.uk. Please do not send to office staff personal emails and all enquiries must come from student's College email accounts. Additionally, there will be an "ed" forum where students can post queries anonymously and they will be answered by staff.

 <https://edstem.org/us/join/Ck8bCy>

2.3 Student Placement Office, Registry

The Student Placement Office is your source of advice and assistance on all matters related to the hosting of students on placement across the College (including all registration issues, fees, bursaries, accommodation, English language requirements etc).

Assistant Registrar Placement Officer:

Adrian Hawksworth a.hawksworth@imperial.ac.uk, tel +44(0)20 7594 8044
For further information please see <http://www.imperial.ac.uk/placements/>

2.4 International Student Support

The International Student Support team deal with all students from outside the UK who wish to study here. They provide a top-class level of support whenever you may need it – before arrival, during your studies and when you move on. Areas of support they provide are:

- Preparing international students for Imperial
- Providing visa and immigration advice and services
- Provide you with assistance throughout your studies

For further information and contact details please see

 <http://www.imperial.ac.uk/study/international-students/>

2.5 Aeronautics Staff

For further details on how to contact academic/administrative/technical staff please refer to the MEng Handbook or go to

 <http://www3.imperial.ac.uk/aeronautics/people>

3. General Information

3.1 Taking Courses in other Departments

You may take courses in other Imperial College departments apart from those listed in the modules offered to you from the Aeronautics Department above, subject to approval from your home institute. You would need to contact the relevant departments directly if you wish to do their courses as we do not liaise for you). *However, these are subject to administrative restrictions i.e. we would not be able to accommodate for these on your timetable and you would have to ensure that they do not clash with the timetabled courses you have selected in Aeronautics. We also cannot guarantee there will not be an examination scheduling clash between our exams and those of courses taken in other departments which are not offered by us and we are unable to adjust our timetable if this happens.*

You are also required to inform the Undergraduate Office in Aeronautics if you are taking courses in other Departments as soon as you have received confirmation you are registered to ensure they receive your results.

If at any time you drop any course you must inform the Undergraduate Office immediately. Failure to notify us will result in zero marks on your official transcript which cannot be removed.

3.2 Choice of Options

Students were asked to select their options earlier in the year for both Autumn and Spring term modules. There is very little scope to change options when you start in October but if you do have a desperate need to change then then email the Aeronautics Undergraduate Office (ae.office@imperial.ac.uk) from your Imperial email account clearly stating the details of the change along with your full name, year, programme, CID **by Friday 15th October 2021**. Please note you can only take the options offered to your programme as per the information in the next section, you cannot register on any other modules we run for other programmes.

3.3 Personal Tutor

There are personal tutorial sessions scheduled in the Autumn, Spring and Summer terms with the Erasmus Program Coordinator who is also your Personal Tutor. She will also be happy to see you at any mutually convenient time to discuss academic or personal problems you may have.

3.4 Examinations

We have two examination sessions. The first examination session takes place during the first two weeks of the Spring Term (January) and the second examination session takes place during the first two weeks of the Summer Term (April/May). Due to COVID-19 our on-campus formal written examinations will be in the form of a timed remote assessment.

4. Programme Summary

4.1 Third Year H41E Programme Summary

The table below lists all the optional subjects currently offered to AE3 H41E MIT students on the Erasmus/Exchange programme (revised annually) by the Aeronautics Department. Entirely up to your Home Institute as to what options you undertake from those offered.

In a given year, for reasons associated with timetabling, staff availability and course popularity, it may not be possible to offer all these options and restrictions may be placed on combinations of subjects. Terms may be subject to alteration

Modules	Term Taught	Term Exam Held
Formal Examinations		
AERO60007 Control Systems	2	3
AERO70015 Mathematics 3	2	3
Imperial Horizons	1,2	2
AERO70003 Advanced Propulsion	2	3
BUSI96009 Corporate Finance Online (M/B)	2	3
AERO70019 Spacecraft Systems OR AERO70036 Aircraft Systems Engineering and Aerial Vehicle Technology	2	3
AERO70016 Orbital Mechanics	2	3
AERO70026 Artificial Intelligence for Aerospace Engineers	2	3
AERO70032 Flow Instability and Transition	2	3
Assessed by Coursework only		
AERO70011 High-Performance Computing	1	
AERO60004 Group Design Project	3	

4.2 Fourth Year H41E Programme Summary

The table below lists all the optional subjects currently offered to AE4 H41E students on the Erasmus/Exchange programme (revised annually) by the Aeronautics Department. Entirely up to your Home Institute as to what options you undertake from those offered.

In a given year, for reasons associated with timetabling, staff availability and course popularity, it may not be possible to offer all these options and restrictions may be placed on combinations of subjects. Terms may be subject to alteration.

Modules	Term Taught	Term Exam Held
Formal Examinations		
AERO96012 Mathematics	2	3
AERO96014 Computational Fluid Dynamics OR AERO96020 Advanced Manufacturing	1	2
AERO96013 Introduction to Turbulence and Turbulence Modelling OR AERO96023 Spacecraft Structures	1	2
AERO97006 Applications of Fluid Dynamics OR ELEC97062 Optimisation (IDX)	1	2
Imperial Horizons	1,2	2
AERO96016 Advanced Propulsion	2	3
BUSI96009 Corporate Finance Online (M/B)	2	3

BUSI96010 Entrepreneurship Online (M/B)	1	2
BUSI96011 Accounting Online (M/B)	1	2
AERO96019 Innovation Management (M/B)	1	2
AERO96022 Spacecraft Systems OR AERO97067 Aircraft Systems Engineering and Aerial Vehicle Technology	2	3
AERO97007 Structural Dynamics	1	2
AERO97077 Advanced Fluid Mechanics and Fluid Structure Interaction	1	2
AERO97078 Lightweight Structures OR AERO97011 Aerothermodynamics of Launchers and Re- Entry Vehicles	1 1	2 2
AERO70016 Orbital Mechanics	2	3
AERO70026 Artificial Intelligence for Aerospace Engineers	2	3
AERO70032 Flow Instability and Transition	2	3
Assessed by Coursework only		
AERO97051 Applied Computational Aerodynamics	1	
AERO96008 Aerospace Vehicle Design	1,2	
AERO97010 Individual Project	3	

Key:

M/B = Management/Business option

Coursework submission and feedback deadlines can be found on the current student's website:

 <http://www.imperial.ac.uk/aeronautics/study/ug/current-students/coursework-submission-deadlines/>

Programme specifications contain information on the aims, objectives, learning outcomes, modules hours, ECTS as well as details of how our modules are delivered, see link below for full information.

 <http://www.imperial.ac.uk/staff/tools-and-reference/quality-assurance-enhancement/programme-information/programme-specifications/>

5. Project

5.1 Third Year H41E Group Design Project

A significant item of coursework in Year 3 is the Group Design Project which should occupy around 200 hours. This project is scheduled to take place immediately after the examinations (project will run from week 3 to week 8 inclusive in Summer term). You will be given information on the projects available during the Spring term. You will be asked to provide the project coordinator with a list of projects and available roles you would be interested in working on. Roles will ultimately be allocated taking the entire cohort's selections in mind.

5.2 Fourth Year H41E Individual Project

Detailed information about the available projects this year, the allocation process, the preparatory work and the assessment of the projects, is provided in a separate document which you will find on the "AERO97010 Aeronautics Undergraduate: Individual Project (Short) 2021-22" folder on Blackboard (will appear later than the autumn term courses on Blackboard). As soon as you know your allocated project you should begin any recommended preparatory reading and start preparing your work plan in consultation with your supervisor.

 <https://bb.imperial.ac.uk/>

Report submission date and presentation date can also be found on current student's website.

 <http://www.imperial.ac.uk/aeronautics/study/ug/current-students/coursework-submission-deadlines/>

The project will occupy about 200 hours and will run from the third to the eighth week of the Summer term (starts immediately after the Summer exams). For some projects it may be necessary to have equipment and specimens manufactured in the workshops; for others there may be limited availability of test facilities (e.g. wind tunnels, tensile test machines etc.) so you should discuss your work programme with your project supervisor early in the Spring term.

6. Erasmus Learning Agreements

Any changes or signature required for your learning agreements then please contact the Department Exchange/Erasmus Coordinator.