## Competence Standards: Department of Aeronautics

These competence standards highlight the core skills students should be able to demonstrate by the end of their programme of study in the Aeronautics Department. In addition to these competence standards all students will be expected to meet the basic academic competence standards contained within the admissions policy for their programme of study. These competence standards apply to the following degree programmes:

- MEng in Aeronautical Engineering – Admissions Policy: [http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies](http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies)
- MEng in Aeronautical Engineering with a Year Abroad – Admissions Policy: [http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies](http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies)
- MEng in Aeronautical Engineering with a Year in Industry – Admissions Policy: [http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies](http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies)
- MEng in Aeronautics with Spacecraft Engineering – Admissions Policy: [http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies](http://www.imperial.ac.uk/study/pg/apply/selection/admissions-policies)


It should be noted that the Faculty of Engineering believe in providing the widest practicable access to all degree programmes and appreciate that it is not possible to anticipate all circumstances. If it is possible to mitigate the impact of a disability by making a reasonable adjustment to procedures, e.g. by the use of an amanuensis or by the application of a specific technology, then every effort will be made to implement this with due consideration to ensuring fairness to all students and ensuring that all health and safety concerns are met. Therefore, the inability to meet one of the below competency standards due to disability does not necessarily preclude entry to a given degree programme but rather constitutes the starting point for a dialogue between the potential applicant, the College’s disability officer and the Department.

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<th>Area</th>
<th>Competence Standard</th>
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| Subject specific knowledge and understanding | Ability to perceive, comprehend, synthesise, retain and apply information presented orally and in writing from a range of contexts including large-group, small-group and individual teaching, as well as eLearning, seminars and practical work.  
   Ability to undertake guided independent learning.  
   Ability to use acquired theoretical and practical knowledge to solve unseen engineering problems.  
   Ability to follow general laboratory, workshop and/or fieldwork safety guidance and precautions.  
   Acceptance of the general principles and practices of engineering professional codes of conduct.  
   Ability to understand the wider context of the engineering discipline, its practical applications, societal impact and limitations. |
| Intellectual skills            | Psychological ability to cope with full-time study in an city environment  
   Excellent arithmetic ability  
   Ability to prepare, process, and interpret data and/or observations using appropriate techniques  
   Ability to form logical, reasonable conclusions and make sound recommendations based on available data and/or observations.  
   Ability to obtain necessary data from scientific and technical documents, reports, and other reference materials  
   Ability to undertake work with a high level of initiative and commitment to the task in hand |
| Practical skills               | Physical and manual dexterity to precisely perform precise practical procedures.  
   Ability to observe, undertake the measurement of, accurately record and manipulate data and/or observations in a laboratory, workshop and/or fieldwork environment using appropriate equipment (following appropriate training).  
   Ability to use appropriate equipment competently and safely (following appropriate training).  
   Ability to produce sketches to communicate ideas and concepts.  
   Ability to use computer systems to access learning resources, receive communications regarding the degree programme, undertake assessments and submit assignments.  
   Ability to use appropriate engineering software packages as an aid to research, analysis, problem solving and presentation.  
   Ability to use symbolic and numerical mathematical software as part of practical computation (following appropriate training) |
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<th>Transferrable skills</th>
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<td>Ability to work as part of a group/team in a range of roles, for the purposes of research, collective problem solving, development of ideas, production of objects and/or communication of results/findings. Ability to recognise and respect the contributions of other team members to promote successful team work.</td>
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<td>Ability to write group/team or individual written technical reports to a professional standard.</td>
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<td>Ability to respond to written material critically, effectively and efficiently.</td>
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<td>Ability to present written technical reports to others and to make oral presentations that are reasoned, logical and time-limited, to a variety of audiences.</td>
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