DEFENCE SYSTEMS ENGINEERING PG Cert / 2017/18 ENTRY

www.ucl.ac.uk/graduate/spacilphys
This Postgraduate Certificate has been designed for engineering professionals who are interested in developing their careers into systems engineering or project management roles in the defence and security domains.

Degree summary

Students will develop a powerful set of skills and knowledge about defence and security systems and gain awareness and understanding of the economic and organisational context within which defence and security systems are developed, including the limitations these can impose. Depending on the modules chosen, students may focus more on business, project management, reliability or design aspects.

The programme combines interactive lectures, group exercises and case studies to reinforce key points. Lecturers are experts in the field, many of whom have engaged in the practice of systems engineering in industry, and all of whom oversee research across a broad range of subjects relating to systems engineering, project management and technology management.

Students with this degree will gain the skills, knowledge and confidence to further their careers. They will be able to build their professional contacts with like-minded individuals from different organisations.

On successful completion of the 60-credit programme, students may choose to apply to transfer their credit towards a 120-credit Postgraduate Diploma or a 180-credit MSc in Systems Engineering Management.

The programme consists of four taught modules, each of which is delivered as a five-day block week consisting of a blend of interactive lectures, small-group exercises and presentations, case studies and workshop activity. Formative feedback is given to students throughout the modules. Modules are formally assessed through coursework to be completed a few weeks after the module, and for some modules there is also a short test or a 1.5 hour written examination.

Accreditation

The MSc in Systems Engineering Management (which students may choose to go on to study on successful completion of this Postgraduate Certificate) is accredited by the Institution of Engineering and Technology (IET) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Degree structure

Mode: Flexible: up to 3 years
Location: London, Bloomsbury

Students undertake modules to the value of 60 credits. The programme consists of four taught modules of 15 credits each.

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<th>CORE MODULES</th>
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<tr>
<td>Students must take Defence and Security Systems (15 credits) and either three from the list below or two from the list below and one optional module.</td>
</tr>
<tr>
<td>Business Environment</td>
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<tr>
<td>Lifecycle Management</td>
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<tr>
<td>Risk, Reliability and Resilience</td>
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<tr>
<td>Systems Thinking and Engineering Management</td>
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<tr>
<th>OPTIONAL MODULES</th>
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<tbody>
<tr>
<td>Delivering Complex Projects</td>
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<tr>
<td>Project Management* (leading to Association for Project Management examination)</td>
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<tr>
<td>Systems Design</td>
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<tr>
<td>Technology Strategy</td>
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<tr>
<td>*Delivered in association with UCL School of Management</td>
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Your career

Students who have studied this subject have found employment in defence, aerospace, rail, construction, cybersecurity, engineering, IT, management consultancy and many other areas.

Employability

Systems engineering is a highly sought-after expertise, particularly in engineering and technology-based organisations. The programme’s industrial advisory board ensures that the subjects students learn about cover the key issues faced by industry.
Entry requirements

**English language proficiency level**

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: .

Information about the evidence required, acceptable qualifications and test providers is provided at:

www.ucl.ac.uk/graduate/english-requirements

**Your application**

When we assess your application we would like to learn:

// why you want to study Defence Systems Engineering at graduate level?
// why you want to study Defence Systems Engineering at UCL?
// what particularly attracts you to the chosen programme
// how do your academic and professional background and skills meet the demands of this challenging programme?
// what programming experience you have
// where would you like to go professionally with your degree?

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver. Applicants who have a portfolio are strongly recommended to submit it when they apply.

**FEES AND FUNDING 2017/18 ENTRY**

// UK: £TBC (FT), £TBC (PT)
// EU: £TBC (FT), £TBC (PT)
// Overseas: £TBC (FT), £TBC (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

**APPLICATION DEADLINE**

All applicants: 28 July 2017

Details on how to apply are available on the website at:

www.ucl.ac.uk/graduate/apply

**CONTACT**

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Telephone: +44 (0)20 7679 4909

**EU referendum**

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to

www.ucl.ac.uk/eu-referendum