

## Durham University School of Engineering and Computing Sciences Collaborative Degree Programmes

杜伦大学工程与计算科学学院

联合学位项目书

### Introduction

#### 介绍

Durham University is the third oldest university in England and one of the world's leading centres of scholarship and learning. This year, Durham University was ranked in the Top 4 of UK Universities by the Sunday Times University guide, and was listed in the World's Top 100 Universities. Durham University is also the only university in the UK whose community owns, lives and works in a World Heritage Site. With an international reputation for excellence in both teaching and research, Durham University will provide an outstanding platform for your future career.

杜伦大学是英格兰最古老的大学之一（成立时间仅次于牛津大学和剑桥大学），同时也是世界领先的学术和教育机构。在 t i m e s 大学排名中，杜伦大学名列英国第四，世界百强。杜伦大学还是英国唯一一所拥有并使用世界遗产（杜伦城堡）的大学。学校在教育和科研诸多领域上卓越的国际声誉将为您的未来提供优质的平台。

Having an Engineering degree from Durham is something to be proud of, and many of our graduates go on to work in top international Engineering firms such as Rolls Royce, Siemens, Arup, and Atkins, to name a few. This is helped by our degrees being very industrially relevant; indeed, we regularly consult major Engineering firms to ensure that our degrees respond to the changing demands on graduate Engineers, giving you the best possible start to your career.

拥有杜伦大学的工程学学位是值得骄傲的。学校的众多工程学位毕业生供职于顶级的国际公司，例如Rolls Royce, Siemens, Arup, Atkins等等。为适应现代工业工程对工程师素质要求的快速变化，学校长期与工程界保持稳定而密切的交流，以确保工程学毕业生跟上时代步伐，在职业生涯的开端即能大展宏图。

Durham also has a growing community of students from overseas. Our International Office has a team dedicated to international student support, which organises Durham University's 'Meet and Greet' service for international students when they first arrive. Overseas students are also supported by our colleges, each of which has an officer dedicated to international student support, so I am sure that you will be made very welcome when you arrive.

近年来，杜伦大学的国际学生数量逐年增长。学校的留学生办公室设立了专门的团队为刚刚到达学校的留学生提供温馨的帮助，而学校的各个学院也有专门的工作人员为留学生服务。我们确信，每个新到校的留学生都会在学校的热切欢迎和热情帮助下很快适应英国的学习和生活环境。

This short document lists some of the important information you will need when considering applying to one of our Shandong-Durham collaborative Engineering degrees. If you have questions or wish to obtain more information, then please get in touch with Dr Chris Groves, the International Coordinator in Engineering and Computing Sciences, who will be delighted to help you. He can be reached by email: [chris.groves@durham.ac.uk](mailto:chris.groves@durham.ac.uk).

本文件包含了申请山东大学---杜伦大学联合工程学位的概要信息。如果您有任何疑问或希望了解更多详情，请与工程与计算科学学院国际项目负责人Chris Groves博士联系。  
联系方式为[chris.groves@durham.ac.uk](mailto:chris.groves@durham.ac.uk)。

To help you make your decision, we have placed some useful resources on our website. In particular, we have commissioned a set of videos where our students talk about the courses and life in Durham. Videos about the courses themselves can be found on [www.dur.ac.uk/ecs](http://www.dur.ac.uk/ecs), and what life is like as an international student can be found on [www.dur.ac.uk/ecs/international](http://www.dur.ac.uk/ecs/international). You will also find links to frequently asked questions about Durham.

为便于您了解杜伦大学，我们将一些相关信息放到学校网站上，包括本校学生讲述在校生活的短片（[www.dur.ac.uk/ecs](http://www.dur.ac.uk/ecs)），国际学生在杜伦的生活，以及关于杜伦大学、杜伦城市的常见问题问答（[www.dur.ac.uk/ecs/international](http://www.dur.ac.uk/ecs/international)）。

We very much look forward to welcoming you to Durham!  
我们期待在杜伦迎接您的到来！

## How to apply

Applications will be accepted via the UK University system UCAS only. Further details about how to apply through UCAS will be provided shortly.

## Fees

Tuition fees for the academic year 2013-2014 are £17,000. Accommodation costs and living expenses are not included in this total. The website to find out more information is:

<http://www.dur.ac.uk/international/undergraduate/fees/>

Scholarships will be available but the amount and distribution of these will be determined by the Collaborative degree Management Committee after application.

## English Language requirements

If you are studying towards an IELTS qualification then you must achieve an average grade of 6.5 or greater, with no component below 6.0. More information, particularly for other (non-IELTS) English qualifications, can be found from the following website:

<http://www.dur.ac.uk/learningandteaching.handbook/1/3/1.3.2/1.3.2.1/>

English language courses are available during the summer prior to the Engineering courses beginning in September/October. These English classes are recommended. Note that fees for English courses are not included in the tuition fees listed above. Additional information can be found on the following website:

<https://www.dur.ac.uk/englishlanguage.centre/englishlanguage.courses/prospectivestudents/summer-pre-sessional/>

## Academic Entry requirements

Academic entry requirements are listed by programme in the Summary Course information sheets which follow. Note that this summarises the Program Regulations and Program Specification for each degree, which are the primary reference for these courses.

## Summary Course Information

### **Bachelor of Engineering in Civil Engineering**

Open to students studying Civil Engineering (080703). Maximum number of students admitted in academic year 2013/2014 = 2

This course involves 2 years of study at Shandong University followed by 2 years of study at Durham University. Teaching at Durham will include the following content (ENGI code links to webpages with more detailed descriptions):

<b>1<sup>st</sup> year in Durham</b>		<b>Credit value</b>
Systems Modelling and Computing	<a href="#">ENGI2011</a>	20
Analytical Methods	<a href="#">ENGI2051</a>	20
Mechanics and Materials	<a href="#">ENGI2141</a>	20
Design and Reverse Engineering	<a href="#">ENGI2111</a>	20
Thermofluids	<a href="#">ENGI2121</a>	20
Technology for the Modern World	ENGI1081	20
<b>2<sup>nd</sup> year in Durham</b>		<b>Credit value</b>
Soil Engineering	<a href="#">ENGI3311</a>	20
Structures and Surveying	<a href="#">ENGI3301</a>	20
Environmental Engineering	<a href="#">ENGI3341</a>	20
BEng Civil Design	<a href="#">ENGI3281</a>	20
BEng Engineering Project	<a href="#">ENGI3262</a>	40

Please refer to [core regulations for undergraduate programmes](#) as well as the program regulations for more detail.

#### Academic Entry Requirements

Students entering this program must have achieved at least 75% in each of the following assessments:

**Advanced Mathematics**  
**Civil Engineering Materials**  
**Descriptive Geometry and Engineering Graphing**  
**Experiments in University Physics**  
**Foundation of Computer Technologies**  
**Hydrodynamics**  
**Introduction of Computer**  
**Linear Algebra**  
**Materials Mechanics**  
**Theoretical Mechanics**  
**Structural Mechanics (I&II)**  
**University Physics III**

## Summary Course Information

### Master of Engineering in Civil Engineering

Open to students studying Civil Engineering (080703). Maximum number of students admitted in academic year 2013/2014 = 2

This course involves 3 years of study at Shandong University followed by 2 years of study at Durham University. Teaching at Durham will include the following content (ENGI code links to webpages with more detailed descriptions):

<b>1<sup>st</sup> year in Durham</b>		<b>Credit value</b>
Soil Engineering #	<a href="#">ENGI3311</a>	20
Structures and Surveying #	<a href="#">ENGI3301</a>	20
Environmental Engineering #	<a href="#">ENGI3341</a>	20
Applied Mechanics #	<a href="#">ENGI3411</a>	20
Civil Design #	<a href="#">ENGI3401</a>	20
Design and Management for Civil Engineering #	<a href="#">ENGI3381</a>	20
<b>2<sup>nd</sup> year in Durham</b>		<b>Credit value</b>
Geotechnical and Highway Engineering	<a href="#">ENGI4161</a>	20
Civil Design and Materials	<a href="#">ENGI4141</a>	20
Hydrology and the Environment	<a href="#">ENGI4151</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

Please refer to [core regulations for undergraduate programmes](#) as well as the program regulations for more detail.

#### Academic Entry Requirements

Students entering this program must have achieved at least 75% in each of the following assessments:

**Advanced Mathematics**  
**Civil Engineering Materials**  
**Descriptive Geometry and Engineering Graphing**  
**Experiments in University Physics**  
**Foundation of Computer Technologies**  
**Fundamentals of Steel and Concrete Structure**  
**Hydrodynamics**  
**Introduction of Computer**  
**Linear Algebra**  
**Materials Mechanics**  
**Theoretical Mechanics**  
**Soil Mechanics**  
**Structural Mechanics (I&II)**  
**University Physics III**

## Summary Course Information

### Master of Engineering in New and Renewable Energy

Open to students studying Energy and Environment System Engineering (080504) or Thermal Energy and Power Engineering (080501). Maximum number of students admitted in academic year 2013/2014 = 2

This course involves 3 years of study at Shandong University followed by 2 years of study at Durham University. Teaching at Durham will include the following content (ENGI code links to webpages with more detailed descriptions):

#### 1<sup>st</sup> year in Durham

<b>EITHER (Electrical Engineering Route)</b>		<b>Credit value</b>
Control and Signal Processing	<a href="#">ENGI3391</a>	20
Electrical Engineering	<a href="#">ENGI3371</a>	20
Electronics	<a href="#">ENGI3361</a>	20
Thermodynamics and Fluid Mechanics	<a href="#">ENGI3291</a>	20
Engineering Design	<a href="#">ENGI3351</a>	20
Management and Manufacture	<a href="#">ENGI3421</a>	20
<b>OR (Mechanical Engineering Route)</b>		<b>Credit value</b>
Control and Signal Processing #	<a href="#">ENGI3391</a>	20
Electrical Engineering #	<a href="#">ENGI3371</a>	20
Applied Mechanics #	<a href="#">ENGI3411</a>	20
Thermodynamics and Fluid Mechanics #	<a href="#">ENGI3291</a>	20
Engineering Design #	<a href="#">ENGI3351</a>	20
Management and Manufacture #	<a href="#">ENGI3421</a>	20

#### 2<sup>nd</sup> year in Durham

<b>CORE MODULES</b>		<b>Credit value</b>
Energy Conversion and Delivery	<a href="#">ENGI4271</a>	20
Energy Markets, Low Carbon and Thermal Technologies	<a href="#">ENGI4281</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60
<b>OPTIONAL MODULES (Choose 20 credits)</b>		<b>Credit value</b>
Digital Systems	<a href="#">ENGI4251</a>	20
Applied Mechanics	<a href="#">ENGI4211</a>	20
Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
Enterprise and Operations	<a href="#">ENGI4311</a>	20

Please refer to [core regulations for undergraduate programmes](#) as well as the program regulations for more detail.

#### Academic Entry Requirements

Students entering this program must have achieved at least 75% in each of the following assessments:

**Advanced Mathematics**

**College Physics III**

**Complex Functions and Laplacian Transform**

**Electrical Engineering**

**Engineering Thermodynamics and Heat Transfer**

**Engineering Training**

**Engineering Training (Electronics)**

**Experiments in College Physics**

**Fluid Mechanics**

**Foundation of Computer Technologies**

**Fundamentals of Mechanical Design**

**Fundamentals of Mechanical Drawing**

**Introduction of Computer**

**Linear Algebra**

**Mechanics Materials**

**Production Practice**

**Theoretical Mechanics**