

# Civil Engineering Studies

HND

Expected Intake

20

Mode of Study

Two years full time

## Introduction

- Do you want to be a key player in the solution of the world's most pressing problems?
- Would you like to be involved with the design and construction of the infrastructure essential to support life such as hospitals, roads, bridges, harbours, drinking water supplies, sanitation, schools, railways, flood prevention and sports stadiums.
- Do you enjoy working with a wide range of people – government agencies, local authorities, architects, builders, mechanical and electrical engineers, lawyers, service engineers - in a problem solving context?

Would you like a career with plenty of variety, and with ample opportunity for overseas employment, both short term and long term?

If the answer to these questions is 'yes', then an HND/C in Civil Engineering at Liverpool John Moores University may well be the first rung on the ladder to a successful and rewarding career.

Civil engineers are responsible for the design and construction of a wide variety of high profile projects. Examples of relatively recent projects include the Thames Tidal Defence Flood Barrier, the Millau Bridge in France, the Falkirk wheel in Scotland moving boats from one canal to another, the Sustrans network of cycle routes, the Gateshead Millennium Footbridge, and the London Millennium Bridge, the Channel tunnel, The Itaipu Dam and the saving of the Leaning Tower of Pisa. Civil Engineers have worked to allow mankind to live in relative comfort on the land over millennia, with many examples remaining to this day, such as the Roman roads and aqueducts, the Pyramids of Egypt and the Great Wall of China.

The Civil Engineer's role is one of balancing the human needs with those of the environment, and as such they have been at the forefront of the environmental movement for centuries. In the early 1800s they were designing sewers, by the mid 1800s the work on building dams and reservoirs to provide clean water had begun. Wastewater treatment works followed soon after. Civil Engineers continue to work in this tradition of environmental improvement, and sustainability is a key theme of Civil Engineering studies at Liverpool John Moores University.

## Why should I study Civil Engineering Studies at LJMU?

The skills of problem solving, analysis and design are fundamental to the Civil Engineer. The HND/C in Civil Engineering is designed to develop these skills to the level required by Civil Engineering technicians in the workplace, and to supplement these with skills in team work, drawing, IT, risk assessment, report writing and common sense.

The HND is a 2 or 3 year full time programme, and can incorporate the option of a professional training year of paid employment in industry. The HNC is a part time programme, studied over 2 years.

On successful completion of the HND or HNC students with appropriate grades can progress directly into the 2nd year of the BEng (Hons) Civil Engineering degree programme.

Graduates of the HND can apply for Incorporated Engineer status with the Institution of Civil Engineers.

The programme of study focuses on the core subjects of structural analysis and design, hydraulics, geotechnics, materials, surveying and construction management.

These topics are taught in separate units or modules, but also integrated into project tasks which simulate the type of work carried out by incorporated Civil Engineers in professional practice.

These studies are also supported by the development of technical and personal skills required by the modern Civil Engineer.

The programme covers a wide range of skills, knowledge, and competencies. Civil Engineers must be competent technically, and practical in outlook. The skills required are visual, verbal, numeric, written, and drawing. An ability to relate to a wide range of people as well as an understanding of how things work is necessary to be a successful Civil Engineer. This course will take you through modules and projects designed to foster and develop these skills.

Most students who successfully complete the course are employed in the Civil Engineering sector. The structure of the course, however, is such that you will develop a number of transferable skills which are applicable to a wide variety of working

environments and careers.

In order to integrate the course of study with the professional workplace, the HND is offered in sandwich mode to those who wish to take this option. This means that after one year of study, one year is taken working in fully-paid employment as a Civil Engineer (the sandwich year), and then returning to University for the final year of study. This work experience is usually counted towards the work experience requirements for the ICE.

Our Byrom Street campus, where this course is delivered, is well supplied with facilities thanks to the investment of £6 million in state-of-the-art laboratories and lecture rooms.

## **How will you spend your study time?**

Your pattern of study is to attend the timetabled lectures, laboratory work, tutorials, workshops, and practical sessions, combined with your own research using the resources of the University's Learning Resource Centre, and from the web. Timetabled classes account for approximately two and a half days per week for HND students, one day per week for HNC students, with the remaining time in the week spent on self-study, team work and the preparation of coursework and assignments.

## **How will you be assessed?**

Assessment methods include the use of examinations (open and closed book), coursework (projects, laboratory reports, technical reports, etc.), and oral presentations.

## **Graduate Employment and Careers**

Senior business leaders in national and international companies are working closely with LJMU to identify the higher 'world of work' or WoW skills that will give our students a competitive edge when it comes to climbing the professional career ladder. No other university, either in the UK or internationally, offers you the chance to develop these WoW skills.

Career prospects for students graduating with an HND in Civil Engineering from this University are excellent, with most students obtaining employment prior to the end of their final academic year. Most students studying for the HNC are already in employment and will continue to work for this employer after completion of the HNC.

## **Why should you choose LJMU?**

LJMU places work-related learning and graduate skills development at the heart of every undergraduate degree, without compromising academic quality. Senior business leaders in national and international companies are working closely with us to identify the higher 'world of work' (WoW) skills that give our students a competitive edge for rewarding careers.

No other university, either in the UK or internationally, offers you the chance to develop these WoW skills. LJMU is committed to raising the bar on all aspects of teaching, assessment, academic support and skills development. We offer excellent facilities, high quality degree programmes, supportive staff and a thriving student community drawn from 100 countries worldwide. LJMU is a vibrant university located in one of the most exciting, and affordable, student cities in the UK.

## **Why Liverpool?**

### **Liverpool – an exceptional student city**

Liverpool is a city that has something for everyone and is very supportive of the 50,000 students who live, work and study in its universities.

Rich in cultural heritage, the city has received World Heritage Site status and was the 2008 European Capital of Culture. According to Home Office statistics, Liverpool is one of the safest places in the UK too.

## **LJMU Bursaries and Scholarships**

LJMU has an excellent and long-established record of reaching out to students with little experience or family tradition of attending university and helping them succeed in higher education.

LJMU offers a range of Special Support Bursaries and LJMU's scholarships reward both academic and personal achievement.

For more detailed information about funding, bursaries and scholarships, please visit:

<http://www.ljmu.ac.uk/study/ljmu/fees/85947.htm>

## **Course Fees**

### **Fees p.a. 2010**

LJMU's full time domestic tuition fees will be **£3,290** per year from 2010

## **What do current and past students say?**

## Application and Selection (what are we looking for?)

You know what the entry requirements are, what the course will cover and what it will be like to study at LJMU in Liverpool, but what skills do you need to secure a place?

We are looking for students with a keen interest in how things work, and a desire to improve their environment. Ideally a student will have good communication and problem solving skills and common sense. An aptitude for spatial recognition, design, and drawing is recommended, as are numeracy and literacy.

## Entry Requirements

**UCAS Tariff Points Required:** 180

## GCE A Levels

**Minimum Number Required:** 1

**GCE AS acceptability:** Acceptable only when combined with other qualifications

**Subject Specific Requirements:** None

**Additional Information:** General Studies counted as half points i.e. A, B, C, D = 60, 50, 40, 30 respectively

## BTEC

**National Awards (6 units) (not including Early Years)** Acceptable only when combined with other qualifications

**National Awards Grades required / subjects required** To the total of 180 UCAS points when combined with other qualifications

**National Certificate (12 units) (not including Early Years)** Acceptable on its own and combined with other qualifications

**National Certificate Grades required / subjects required** DM if studied on its own or to the total of 180 UCAS points if combined with other qualifications

**National Diploma (18 units) (Not including Early Years)** Acceptable on its own and combined with other qualifications

**National Diploma Grades / Subjects required** MMP if studied on its own or to the total of 180 UCAS points if combined with other qualifications

## Welsh Baccalaureate

**Advanced Diploma Acceptability** Acceptable only when combined with other qualifications

## Irish Leaving Certificate

**Acceptability** Acceptable on its own and combined with other qualifications

## Specialised Diplomas

**Subject areas accepted** Construction and the Built Environment, Creative and Media, Information Technology, Society, Health & Development, Environmental and Land-based Studies, Business, Administration and Finance, Manufacturing and product Design, Hospitality, Hair and Beauty, General Engineering

**Grades reqd** 180 UCAS points gained from either Advanced Diploma or Progression Diploma

## Key Skills

**Is achievement encouraged?** Yes

**Will Key Skills tariff points be counted towards an offer?** No

**What minimum Key Skill level is appropriate?** 3

**Subject areas considered** Application of number, Communication

## Scottish Awards

Higher	Acceptable only when combined with other qualifications
Advanced Higher	Acceptable on its own and combined with other qualifications

## Access to HE

Acceptability	Acceptable on its own and combined with other qualifications
Additional Information	Recommended subject streams are: Engineering; Science; Business

## International Baccalaureate

Acceptability	Acceptable on its own and combined with other qualifications
Additional Information	N/A

## Additional Qualifications considered

Advanced Extension Award Acceptability	Acceptable only when combined with other qualifications
GCSE / Standard Grades	At least 5 GCSEs at grade C or above including English and Mathematics
Other qualifications considered	

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## How to apply

All applicants should apply through the Universities and Colleges Admissions Service (UCAS) system.

If you need help or advice on your individual application, you should contact your careers adviser or call the UCAS Customer Service Unit on **+44 (0)871 468 0 468**, open Monday to Friday, 08:30-18:00 hrs(UK time)

If you are calling from outside the UK and are unable to use the number above, please contact them on **+44 (0)870 1122211**.

You can also write to them:

**UCAS  
Customer Service Unit  
PO Box 28  
Cheltenham  
GL52 3LZ.**

You may also apply online by using the 'Apply' application service which provides detailed screen and help text to assist you in making your application: <http://www.ucas.co.uk/students/apply/>

### UCAS Code Name:

LJM

### UCAS Institution Code Name

L51

### UCAS Course Code

002H

### UCAS Course Abbreviation

HND/CivE

### Will I be interviewed?

No interview required (UCAS application form only)

### Can this course be deferred?

Yes, please contact us to discuss your options

### What happens next?

If you are from the UK or EC, you will receive a letter and an open day invitation directly from the School's Admissions Unit. The offer will also be confirmed via UCAS. Open days include an opportunity to meet academic staff and current students, as

well as a tour of LJMU facilities. International students will receive confirmation of their offer from the International Office, along with details about accommodation, fees and other important information. If you choose LJMU as your 'FIRM' choice, you will receive enrolment and induction information upon confirmation of your results.

### **Further information**

Please contact the Faculty of Technology and Environment on:

tel: 0151 231 2777

fax: 0151 231 2879

email: [taeadmissions@ljmu.ac.uk](mailto:taeadmissions@ljmu.ac.uk)

If you have any queries relating to LJMU or university life in general please contact:

**Student Recruitment Team**  
**Liverpool John Moores University**  
**Roscoe Court**  
**4 Rodney Street**  
**Liverpool**  
**L1 2TZ**

Tel: +44(0)151 231 5090

Fax: +44(0)151 231 3462

Email: [courses@ljmu.ac.uk](mailto:courses@ljmu.ac.uk)

Web: [www.ljmu.ac.uk](http://www.ljmu.ac.uk)

### **Further information: International Students**

For further information please visit the website at: <http://www.ljmu.ac.uk/International/>