

Α	. Course Inform	ation				
Final award title(s)	MSc Civil and St	ructural Engine	eering			
Intermediate exit award title(s)	PgCert Civil and Structural Engineering PgDip Civil and Structural Engineering					
UCAS Code			Course Code(s)	5466, 5 5472	5467, 5471,	
	London South Ba					
School	☐ ASC ☐ ACI LSS			ENG 🗆	HSC □	
Division	Civil and Building		ineering			
Course Director	Dr Finian McCan	in				
Delivery site(s) for course(s)	<ul><li>☑ Southwark</li><li>☐ Other: please s</li></ul>	<u> </u>	ering			
Mode(s) of delivery	⊠Full time	⊠Part time	□othe	r please	specify	
Length of course/start and finish dates	Mode	Length years	Start - ı	month	Finish - mont	
	Full time	1	Septen		September	
			_		· ·	
	Full time with	1 yr 4 month	Januar	<u>y</u>	May	
	Full time with	n/a				
	sandwich year					
	Part time	2	Septen	nher	September	
		2 yrs 4 mont	•		•	
	Part time with	2 yrs 4 mom	iis Januai	<u>y</u>	May	
	Part time with					
	sandwich year					
Is this course generally	Please complete the	International Offic	re questionnai	ire		
suitable for students on a	Yes	No	oo quootioiiilai	10		
Tier 4 visa?	Students are advised that the structure/nature of the course is suitable for those on a					
	4 visa but other factors					
Approval dates:	Course(s) validat	ted /	November	2019		
	Subject to valida	tion				
	Course specificated updated and sign		September	f <b>2019</b>		
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Duefocalenal Office	O T. L	ided by the Jaint Doord of Madenators (commission of				
Professional, Statutory	-	To be provided by the Joint Board of Moderators (comprising the				
Regulatory Body		Institution of Civil Engineers, the Institution of Structural Engineers, the Institute of Highway Engineers and the Chartered				
accreditation						
	แเรแนแบก (	of Highways and Transportation).				
Reference points:	Internal	Corporate Strategy 2015-2020				
Reference points.	Internal	Academic Quality and Enhancement Manual				
		School Strategy				
		LSBU Academic Regulations				
	External	QAA Quality Code for Higher Education 2013				
		Framework for Higher Education Qualifications				
		Subject Benchmark Statements (Dated)				
		PSRB				
		Competitions and Markets Authority				
		SEEC Level Descriptors 2016				
		Aims and Features				
Distinctive features		al based postgraduate course specialising in civil and				
of course		ering covering the areas of structures, geotechnics,				
	•	g, conservation, advanced structural analysis and				
	with transportation	computing simulation and also offering modules linked				
	with transportation	rengineering.				
	Students will also	be required to complete an individual project in a				
		ific area of the course studied, providing them with the opportunity of				
	-	ling a course of independent study. The work is to be of an				
		tigative nature having an experimental, analytical, computer-based				
	or fieldwork input.					
	<del></del>					
Course Aims		Structural Engineering course aims to:				
		duates who are committed to a career in civil and				
		engineering with a range of employers.				
	•	duates equipped to take up professional employment struction industry and become lifelong learners with an				
		on of the value to society of an education in civil and				
	• •	engineering.				
		duates who have knowhow and understanding of the				
		s of civil and structural engineering.				
		ates to acquire and develop problem-solving skills,				
	and subject	ct-specific skills.				
	<ol><li>Develop gra</li></ol>	5. Develop graduates who bring practical solutions to design				
		and who have the technical skills to see their ideas				
		realisation.				
		opportunity to those in full-time employment to study				
		degree in structural engineering on a part-time basis.				
		que educational environment that seeks to benefit				
		ractical experience of mature and part-time students. engineering education centred within the built				
		nt that recognises the important roles of other				
		s in the development of the built environment and				
		nteraction and teamwork with these other				
	profession					
		duates with the necessary further learning which will				
		e full educational base for a Chartered Engineer.				
	Provide the	Cassadoriai bass for a Griantoroa Eriginosti				

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## **Course Learning** a) Students will have knowledge and understanding of: **Outcomes** A1: A comprehensive knowledge and understanding of scientific principles and methodology necessary to underpin their education in their engineering discipline, and an understanding and know-how of the scientific principles of related disciplines, to enable appreciation of the scientific and engineering context, and to support their understanding of relevant historical, current and future developments and technologies. (SM1m) A2: Knowledge and understanding of mathematical and statistical methods necessary to underpin their education in their engineering discipline and to enable them to apply a range of mathematical and statistical methods, tools and notations proficiently and critically in the analysis and solution of engineering problems. (SM2m) Ability to apply and integrate knowledge and understanding of other engineering disciplines to support study of their own engineering discipline and the ability to evaluate them critically and to apply them effectively. (SM3m) A3: Understanding the need for a high level of professional and ethical conduct in engineering and knowledge of professional codes of conduct. (EL1m) A4: Knowledge and understanding of the commercial, economic and social context of engineering processes. (EL2) A5: Knowledge of management techniques, including project and change management, that may be used to achieve engineering objectives, their limitations and how they may be applied appropriately. (EL3m) A6: Understanding of the requirement for engineering activities to promote sustainable development and ability to apply quantitative techniques where appropriate (EL4m) A7: Awareness of relevant legal requirements governing engineering activities, including personnel, health & safety, contracts, intellectual property rights, product safety and liability issues, and an awareness that these may differ internationally. (EL5m) A8: Knowledge and understanding of risk issues, including health & safety, environmental and commercial risk, risk assessment and risk management techniques and an ability to evaluate commercial risk. (EL6m)

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processes. (EA1m)

able to:

b) Students will develop their intellectual skills such that they are

B1: Understanding of engineering principles and the ability to apply them to undertake critical analysis of key engineering

B2: Ability to identify, classify and describe the performance of systems and components through the use of analytical methods and modelling techniques. (EA2)

B3 Ability to apply quantitative and computational methods, using alternative approaches and understand their limitations, in order to solve engineering problems and to implement appropriate action. (EA3m)

B4: Understanding of, and the ability to apply, an integrated or systems approach to solving engineering problems. (EA4)

B5: Understand and evaluate business, customer and user needs, including considerations such as the wider engineering context, public perception and aesthetics. (D1)

B6: Investigate and define the problem, identifying any constraints including environmental and sustainability limitations; ethical, health, safety, security and risk issues; intellectual property; codes of practice and standards. (D2)

B7: Work with information that may be incomplete or uncertain, quantify the effect of this on the design and where appropriate, use theory or experimental research to mitigate deficiencies. (D3m)

B8: Apply advanced problem-solving skills, technical knowledge and understanding, to establish rigorous and creative solutions that are fit for purpose for all aspects of the problem including production, operation, maintenance and disposal. (D4)

B9: Plan and manage the design process, including cost drivers, and evaluate outcomes. (D5)

B10: Communicate their work to technical and non-technical audiences. (D6)

c) Students will acquire and develop practical skills such that they are able to:

C1: Understanding of contexts in which engineering knowledge can be applied (for example operations and management, application and development of technology, etc.). (P1)

C2: Knowledge of characteristics of particular equipment, processes or products, with extensive knowledge and understanding of a wide range of engineering materials and components. (P2m)

C3: Ability to apply relevant practical and laboratory skills. (P3)

C4: Understanding the use of technical literature and other information sources. (P4)

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C5: Knowledge of relevant legal and contractual issues. (P5); and nderstanding of appropriate codes of practice and industry standards. (P6)

C6: Awareness of quality issues and their application to continuous improvement. (P7); Ability to work with technical uncertainty. (P8)

C7: Understanding of different roles within an engineering team and the ability to exercise initiative and personal responsibility, which may be as a team member or leader. (P11m).

d) Students will acquire and develop transferrable skills such that they are able to:

D1: Apply their skills in problem-solving, communication, information retrieval, working with others and the effective use of general IT facilities. (G1)

D2: Plan self-learning and improve performance, as the foundation for lifelong learning/CPD. (G2)

D3: Monitor and adjust a personal programme of work on an ongoing basis (G3m)

D4: Exercise initiative and personal responsibility, which may be as a team member or leader. (G4)

#### C. Teaching and Learning Strategy

- Enhance learning and understanding through a combination of lectures, seminars, tutorials, practical classes, coursework, design, computer sessions, project work and self-study. Throughout the course students have module guides relevant to each topic of study, giving additional reading material, which students are encouraged to use for private study to consolidate the formal learning process, and both broaden and deepen their knowledge and understanding in the subject area.
- Develop intellectual skills through the teaching and learning programme. Analysis and problem-solving skills are further developed through regular tutorial sheets and design-based exercises. Experimental, research and design skills are further developed through coursework exercises, laboratory, research and design projects.
- Practical skills are developed through the teaching and learning programme.
- Experimental skills are developed through laboratory experiments and project work.
- Transferrable skills are developed through a combination of coursework, presentations, provision of module guides, setting coursework deadlines, laboratory experiments, project work, design work and individual learning.

#### D. Assessment

- Testing of the knowledge base is through a combination of unseen written examinations, closed-book tests, essays, oral presentations, design exercises, laboratory reports, poster displays and individual projects.

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- Analysis and problem-solving skills are assessed through unseen written
  examinations and class tests. Experimental, research and design skills are
  assessed through laboratory reports, coursework exercises, project reports, poster
  displays and oral presentations.
- Practical skills are assessed through a mixture of coursework exercises, laboratory reports, presentations, oral examinations, unseen written examinations, computer-based projects, and individual investigative-based projects.
- Transferrable skills are assessed through a mixture of coursework exercises, laboratory reports, presentations, oral examinations, unseen written examinations, computer-based projects and individual investigative-based projects.

#### E. Academic Regulations

The University's Academic Regulations apply for this course. Any course specific protocols will be identified here.

#### F. Entry Requirements

In order to be considered for entry to the course applicants will be required to have the following qualifications:

- An undergraduate Civil/Structural Engineering degree with a minimum of a BEng (Hons) Lower Second (2.2) classification, or equivalent; or
- An undergraduate Civil/Structural Engineering degree with a minimum of a BSc (Hons) Upper Second (2.1) classification, or equivalent; or
- Applicants with appropriate relevant professional experience deemed to be equivalent to a First degree will also be considered.

For applicants whose first language is not English, an IELTS score of 6.5 or equivalent is required.

#### G. Course structure(s)

#### **Course overview**

- Each of the six taught modules is worth 20 credits, while the Project is worth 60 credits.
- Full-time students study three modules in Semester One, with assessment in January, and another three modules in Semester Two, with assessment in May / June. Students starting in September are allocated a project in November, which is due for submission the following September; students starting in January are allocated their projects in March with submission due in May of the following year.
- Part-time students study and are assessed on two modules in Semester One of their first year, and another two modules in Semester Two of their first year. In their second year, they study one module in Semester One and another module in Semester Two. Students starting in September are allocated their projects in November of their second year, with submission due the following September; students starting in January are allocated projects in March of their second year, with submission due in May of the following year.

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#### H. Course Modules

	Code	Credits	Sem	Mode/Day	Assessme nt
Advanced Structural Design	BEA-7-449	20	1	FT and PT1 Thursday	CW/Ex 30/70
Computational Analysis and Modelling	BEA-7-534	20	1	FT and PT1 Thursday	CW/Ex 100/0
Water Engineering	BEA-7-495	20	1	FT and PT2 Friday	CW/Ex 30/70
Soil-Structure Engineering	BEA-7-499	20	2	FT and PT1 Thursday	CW/Ex 30/70
Structural Dynamics and Earthquake Engineering	BEA-7-500	20	2	FT and PT1 Thursday	CW/Ex 30/70
Highway and Railway Engineering	BEA-7-535	20	2	FT and PT2 Friday	CW/Ex 50/50
Project	BEA-7-497	60	1,2,3	FT and PT2 Friday	CW/Ex 100/0

FT = full-time students

PT1 = first year, part-time students; PT2 = second year, part-time students

#### I. Timetable information

- Timetables are provided online prior to commencing the Course and also in hard-copy at induction.

### J. Costs and financial support

#### Tuition fees/financial support/accommodation and living costs

- Information on tuition fees/financial support can be found by clicking on the following link <a href="http://www.lsbu.ac.uk/courses/undergraduate/fees-and-funding">http://www.lsbu.ac.uk/courses/undergraduate/fees-and-funding</a> or
- http://www.lsbu.ac.uk/courses/postgraduate/fees-and-funding
- Information on living costs and accommodation can be found by clicking the following linkhttps://my.lsbu.ac.uk/my/portal/Student-Life-Centre/International-Students/Starting-at-LSBU/#expenses

#### **List of Appendices**

Appendix A: Curriculum Map

Appendix B: Personal Development Planning

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#### **Appendix A: Curriculum Map**

This map provides a design aid to help course teams identify where course outcomes are being taught (T), developed (D), assessed (A) within the course. It also provides a checklist for quality assurance purposes and may be used in validation, accreditation and external examining processes. Making the learning outcomes explicit will also help students to monitor their own learning and development as the course progresses.

Module						Cour	se Outco	omes				1
Title	Code	A1	A2	A3	A4	A5	A6	A7	A8			
Advanced Structural Design	BEA-7-449	TDA	DA		D		D					
Computational Analysis and Modelling	BEA-7-534	TDA	TDA			D						
Water Engineering	BEA-7-495	TDA	TDA		D		TD	D				
Soil-Structure Engineering	BEA-7-499		TDA				D					
Structural Dynamics and Earthquake Engineering	BEA-7-500	TDA	TDA		D		D		D			
Highway and Railway Engineering	BEA-7-535		DA	D	D	DA	DA	TDA	DA			
Project	BEA-7-497	D	D									
Title	Code	B1	B2	В3	B4	B5	В6	B7	B8	В9	B10	
Advanced Structural Design	BEA-7-449	TDA	DA	DA	D	D		DA	TDA	D	DA	
Computational Analysis and Modelling	BEA-7-534		D	TDA	D			DA	TDA		D	
Water Engineering	BEA-7-495	TDA	TDA	TDA	D				TDA		D	
Soil-Structure Engineering	BEA-7-499	TDA	DA	DA				DA	TDA		D	
Structural Dynamics and Earthquake Engineering	BEA-7-500	TDA	DA	TDA	DA			D	DA			
Highway and Railway Engineering	BEA-7-535	TDA	DA	TDA		TD	Т		DA		D	
Project	BEA-7-497	D		D			D	D	DA		DA	
Title	Code	C1	C2	C3	C4	C5	C6	<b>C7</b>	D1	D2	D3	D4
Advanced Structural Design	BEA-7-449	D	TD		D		TDA	DA	DA			D
Computational Analysis and Modelling BEA-7-534		D	TD	TDA				D	TDA	D		D
Water Engineering BEA-7-495		D	D	TD	D	D	TDA		TDA			D
Soil-Structure Engineering BEA-7-499		DA		D	DA		DA	D	TDA			D
Structural Dynamics and Earthquake Engineering BEA-7-500			D	DA	D		DA	_	DA	_		
Highway and Railway Engineering	BEA-7-535	TDA	D	D		DA	D	D	TDA			
Project	BEA-7-497	DA	D	DA	TDA	DA			DA	DA	DA	DA

T: taught, D: developed, A: assessed

# **Appendix B: Personal Development Planning**

1	Supporting the development and recognition of skills through the personal tutor system.	The Course Director is the personal tutor of all the students (full-time and part-time). This is brought to the attention of all students at induction and regularly during the year.  Each student will be offered a 15 minutes interview with the Personal Tutor, once in each of the two semesters; items discussed will be noted in the students' PDP diary.
2	Supporting the development and recognition of skills in academic modules.	All modules are structured so that the combination of courseworks introduce and develop the technical skills at the post-graduate level in the fields of experimentation, hands-on computer modelling, design exercises, critical analysis, analysis methodologies, data interpretation and verification, research methodologies.  Assessed coursework, in stages, provide the feedback for the consolidation and improvement of these academic skills.
3	Supporting the development and recognition of skills through purpose designed modules.	The modules have been designed to support the development of skills in civil and structural engineering.
4	Supporting the development and recognition of skills through research projects and dissertation works.	Students will develop research skills in a variety of the modules, but in particular in the project module.
5	Supporting the development and recognition of career management skills.	An academic staff, who is the Liaison Officer for the Institution of Civil Engineers briefs the students on the benefits of the student membership of the institution.  The London Branch of the Institution of Civil Engineers visits the students on site and briefs them about the activities and the benefits of the membership of the local activities, and routes to Chartership.  Similar links through academic staff will be formed with other relevant professional bodies including the Chartered Institute of Highways and Transportation, the Institution of Highway Engineers, and the Institution of Structural Engineers. Students are encouraged to use the LSBU Careers Office for CV preparation, interview skills, job vacancies.
6	Supporting the development and recognition of skills through work placements or work experience.	Not applicable.
7	Supporting the development of skills by recognising that they can be developed through extracurricular activities.	Field trips and site visits are organised by members of the teaching team throughout the academic year.
8	Supporting the development of the skills and attitudes as a basis for continuing professional development.	Notices of lectures and presentations at the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institute of Highways and Transportation and the Institution of Highway Engineers are brought to the students' attention.
9	Other approaches to personal development planning.	Not applicable.
10	The means by which self-reflection, evaluation and planned development are supported, e.g. electronic or paper-based learning log or diary.	Weekly meetings for the Project between the student and the supervisor.  Written and/or verbal feedback on assessed coursework.

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# Appendix C: Learning Outcomes Correlation between JMB and LSBU codes on Learning Outcomes

	JMB 0	Guidelines January 2018	Course Outcomes LSB	U	
hematics	SM1m	Knowledge and understanding of so necessary to underpin their education enable appreciation of its scientific support their understanding of relevity developments and technologies	on in their engineering discipline, to and engineering context, and to ant historical, current and future	A1	Knowledge and Understanding
SM1m   SM1m   SM1m   SM1m   SM2m   SM					
Scie	SM6m	Ability to apply and integrate knowled engineering disciplines to support the discipline	ne study of their own engineering		
_	EA1m	Understanding of engineering princt to undertake critical analysis of key		B1	
Engineering and Analysis (EA)	EA2	Ability to identify, classify and descr and components through the use of techniques	ibe the performance of systems	B2	
ingineering an Analysis (EA)	EA3m	Ability to apply quantitative and com alternative approaches and underst solve engineering problems and to	anding their limitations, in order to	В3	
ш	EA4	Understanding of, and the ability to approach to solving engineering pro		B4	
	D1	Understand and evaluate the busine including considerations such as the perception and aesthetics		B5	al Skills
<u> </u>	D2	Investigate and define the problem, including environmental and sustair safety, security and risk issues; integrand standards	nability limitations; ethical, health,	В6	Intellectual Skills
Design (D)	D3m	Work with information that may be i quantify the effect of this on the des		В7	
Desi	D4	Apply advanced problem-solving sk understanding, to establish rigorous for purpose for all aspects of the pro operation, maintenance and dispos	ills, technical knowledge and and creative solutions that are fit oblem including production,	B8	
	D5	Plan and manage the design proces evaluate outcomes	ss, including cost drivers, and	В9	
	D6	Communicate their work to technica	al and non-technical audiences	B10	

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JMB G	uidelines	January 2018	Course Outcomes LSBU				
q	EL1m	Understanding the need for a high level of professional and ethical conduct in engineering and a knowledge of professional codes of conduct and how ethical dilemmas can arise.					
al an	EL2	Knowledge and understanding of the commercial, economic and social context of engineering processes  A4					
EL2   Knowledge and understanding of the commercial, economic and social context of engineering processes							
al, soci I contex	EL4	Understanding of the requirement to promote sustainable development techniques where appropriate	and ability to apply quantitative	A6	Knowledge and Understanding		
mic, leg ımental	EL5m	Awareness of relevant legal require activities, including personnel, heal property rights, product safety and	th & safety, contracts, intellectual	A7	nowledg		
Econol	EL6m	Knowledge and understanding of risafety, environmental and commer risk management techniques and a	cial risk, and risk assessment and	A8	Ž		
	P1	Understanding of contexts in which engineering knowledge can be					
	P2m	Knowledge of characteristics of particular equipment, processes or products, with extensive knowledge and understanding of a wide range of engineering materials and components.					
	P3	Ability to apply relevant practical and laboratory skills  C3					
(P)	P4	Understanding the use of technical literature and other information sources					
Ce	P5	Knowledge of relevant legal and c	ontractual issues	C5			
racti	P6	Understanding of appropriate codes of practice and industry standards					
ring p	P7	Awareness of quality issues and the improvement	neir application to continuous	C6	Skill		
ee	P8	Ability to work with technical uncer	rtainty	C7	cal		
Engineering practice (P)	P11m	Understanding of different roles wi ability to exercise initiative and per as a team member of leader.	thin an engineering team and the rsonal responsibility, which may be	C7	Practical Skills		
neral	G1	Apply their skills in problem-solving retrieval, working with others and the facilities		D1	Skills		
al geı	G2	Plan self-learning and improve per lifelong learning/CPD		D2	able (		
Additional general skills (G)	G3m	Monitor and adjust a personal progbasis	-	D3	Transferable Skills		
Adc skil	G4	Exercise initiative and personal reteam member or leader	sponsibility, which may be as a	D4	Tra		

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# Appendix D: Terminology

awarding body	a UK higher education provider (typically a
awarunig body	university) with the power to award higher
	education qualifications such as degrees
	education qualifications such as degrees
bursary	a financial award made to students to support
,	their studies; sometimes used interchangeably
	with 'scholarship'
collaborative provision	a formal arrangement between a
•	degree-awarding body and a partner
	organisation, allowing for the latter to provide
	higher education on behalf of the former
compulsory module	a module that students are required to take
a cuta at haven	the Conseller of the Province of the Conseller of the Con
contact hours	the time allocated to direct contact between
	a student and a member of staff through,
	for example, timetabled lectures, seminars
	and tutorials
coursework	student work that contributes towards
Coursework	the final result but is not assessed by
	written examination
	Witten cxamination
current students	students enrolled on a course who have not
	yet completed their studies or been awarded
	their qualification
	·
delivery organisation	an organisation that delivers
	learning opportunities on behalf of
	a degree-awarding body
distance-learning course	a course of study that does not involve
distance-learning course	face-to-face contact between students
	and tutors
	and tators
extracurricular	activities undertaken by students outside
	their studies
feedback (on assessment)	advice to students following their completion of
	a piece of assessed or examined work
formative assessment	a type of assessment designed to help
	students learn more effectively, to progress
	in their studies and to prepare for summative
	assessment; formative assessment does not
	contribute to the final mark, grade or class of
	degree awarded to students

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higher education provider	organisations that deliver higher education
independent learning	learning that occurs outside the classroom that might include preparation for scheduled sessions, follow-up work, wider reading or practice, completion of assessment tasks, or revision
intensity of study	the time taken to complete a part-time course compared to the equivalent full-time version: for example, half-time study would equate to 0.5 intensity of study
lecture	a presentation or talk on a particular topic; in general lectures involve larger groups of students than seminars and tutorials
learning zone	a flexible student space that supports independent and social earning
material information	information students need to make an informed decision, such as about what and where to study
mode of study	different ways of studying, such as full-time, part-time, e-learning or work-based learning
modular course	a course delivered using modules
module	a self-contained, formally structured unit of study, with a coherent and explicit set of learning outcomes and assessment criteria; some providers use the word 'course' or 'course unit' to refer to individual modules
national teaching fellowship	a national award for individuals who have made an outstanding impact on student learning and the teaching profession
navigability (of websites)	the ease with which users can obtain the information they require from a website
optional module	a module or course unit that students choose to take
performance (examinations)	a type of examination used in performance- based subjects such as drama and music
professional body	an organisation that oversees the activities of a particular profession and represents the interests of its members
prospective student	those applying or considering applying for any programme, at any level and employing any mode of study, with a higher education provider

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regulated course	a course that is regulated by a regulatory body
regulatory body	an organisation recognised by government as being responsible for the regulation or approval of a particular range of issues and activities
scholarship	a type of bursary that recognises academic achievement and potential, and which is sometimes used interchangeably with 'bursary'
semester	either of the parts of an academic year that is divided into two for purposes of teaching and assessment (in contrast to division into terms)
seminar	seminars generally involve smaller numbers than lectures and enable students to engage in discussion of a particular topic and/or to explore it in more detail than might be covered in a lecture
summative assessment	formal assessment of students' work, contributing to the final result
term	any of the parts of an academic year that is divided into three or more for purposes of teaching and assessment (in contrast to division into semesters)
total study time	the total time required to study a module, unit or course, including all class contact, independent learning, revision and assessment
tutorial	one-to-one or small group supervision, feedback or detailed discussion on a particular topic or project
work/study placement	a planned period of experience outside the institution (for example, in a workplace or at another higher education institution) to help students develop particular skills, knowledge or understanding as part of their course
workload	see 'total study time'
written examination	a question or set of questions relating to a particular area of study to which candidates write answers usually (but not always) under timed conditions

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