

Programme Specification for Undergraduate Programme Leading to
 Bachelor of Arts and Sciences in Global Challenges (Social Cohesion)
 Bachelor of Arts and Sciences in Global Challenges (Global Innovation)
 Bachelor of Arts and Sciences in Global Challenges (Security)
 Bachelor of Arts and Sciences in Global Challenges (Planetary Health)

Applicable for all undergraduate students starting at Level 1 in September 2018

Version No.	Date	Notes – Q&S USE ONLY	QSO
2018/19 v1	July 2017	New programme from 2018-19. Updated PS to be published when codes available	BJR

Undergraduate Programme	
1. Awarding institution	Brunel University London
2. Teaching institution(s)	Brunel University London
3. Home college/department/division	College of Business, Arts and Social Sciences/Department of Social and Political Sciences
4. Contributing college/department/division/ associated institution	College of Engineering, Design and Physical Sciences, College of Clinical and Health Sciences.
5. Programme accredited by	N/A
6. Final award(s) and FHEQ Level of Award	BAsc (Hons) Global Challenges (Planetary Health), BAsc (Hons) Global Challenges (Social Cohesion), BAsc (Hons) Global Challenges (Global Innovation), BAsc (Hons) Global Challenges (Security) BAsc (Hons) Global Challenges (Planetary Health) with Professional Practice BAsc (Hons) Global Challenges (Social Cohesion) with Professional Practice BAsc (Hons) Global Challenges (Global Innovation) with Professional Practice BAsc (Hons) Global Challenges (Security) with Professional Practice <i>FHEQ Level 6</i>
7. Programme title	BAsc Global Challenges
8. Programme type (single honours/joint)	Single Honours
9. Normal length of programme (in months) for each mode of study	36 months (Full time) 48 (Full time with Professional Practice)
10. Maximum period of registration for each mode of study	Normal or standard duration plus 3 years
11. Variation(s) to September start	N/A
12. Modes of study	Full time
13. Modes of delivery	Standard

14. Intermediate awards and titles with FHEQ Level of Award	<p>Certificate of Higher Education in Global Challenges (Planetary Health) Certificate of Higher Education in Global Challenges (Social Cohesion) Certificate of Higher Education in Global Challenges (Global Innovation) Certificate of Higher Education in Global Challenges (Security), (<i>CertHe - FHEQ Level 4</i>)</p> <p>Diploma of Higher Education in Global Challenges (Planetary Health), Diploma of Higher Education in Global Challenges (Planetary Health) with Professional Practice Diploma of Higher Education in Global Challenges (Social Cohesion) Diploma of Higher Education in Global Challenges (Social Cohesion) with Professional Practice Diploma of Higher Education in Global Challenges (Global Innovation) Diploma of Higher Education in Global Challenges (Global Innovation) with Professional Practice Diploma of Higher Education in Global Challenges (Security). Diploma of Higher Education in Global Challenges (Security) with Professional Practice (<i>DipHe - FHEQ Level 5</i>)</p> <p>BASc (Ordinary) Global Challenges (Planetary Health), BASc (Ordinary) Global Challenges (Social Cohesion), BASc (Ordinary) Global Challenges (Global Innovation), BASc (Ordinary) Global Challenges (Security) BASc (Ordinary) Global Challenges (Planetary Health) with Professional Practice BASc (Ordinary) Global Challenges (Social Cohesion) with Professional Practice BASc (Ordinary) Global Challenges (Global Innovation)with Professional Practice BASc (Ordinary) Global Challenges (Security) with Professional Practice (<i>Ordinary Degree - FHEQ Level 6</i>)</p>
15. UCAS Code	Y000
16. JACS Code	Y000
17. Route Code	TBA
18. Relevant subject benchmark statements and other external and internal reference points used to inform programme design.	<p>QAA UK Quality Code for Higher Education which includes the English Framework for Higher Education Qualifications within Part A on Setting and Maintaining Academic Standards QAA Subject Benchmark Statement Brunel 2030</p> <p>Brunel Placement Learning Policy, as published under the 'Placements' section of the 'Managing Higher Education Provision with Others' page.</p>
19. Admission Requirements	<p>Details of entry requirements are provided on the University's and College website.</p> <p>Levels of English for non-native speakers are outlined on Brunel International's language requirements pages.</p>
20. Other relevant information (e.g. study abroad, additional information on placements)	
21. Programme regulations not specified in Senate Regulation 2. Any departure from regulations specified in Senate Regulation 2 must be stated here and approved by Senate.	

22. Further information about the programme is available from the College website.	Link to be inserted.
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23. EDUCATIONAL AIMS OF THE PROGRAMME

The overarching aim of this degree programme is to develop knowledge and understanding of the contribution of the natural sciences, humanities, social sciences, technology, philosophy and ethics to the identification, understanding, response and management of global issues and concerns. Through this approach the programme will develop the critical, practical and research skills of students to produce graduates who are proactive individuals equally capable of undertaking self-directed work or contributing to a shared objective as a team player: graduates who can effectively apply their science and non-science knowledge and evolved trans-disciplinary skills to a wide range of workplaces in industry and society. Moreover, the emphases of the programme on innovation, adaptability and the application of skills and knowledge drawn from a range of disciplinary perspectives, will make these graduates particularly valuable in the global context of rapid change.

More specifically, graduates of this programme will be able to understand and critically question ideas concerning the nature of knowledge, values and experience. Moreover, they will have opportunities embedded within the structure of the programme to try out and critically engage with ideas. This will include criticising and re- interpreting major texts, constructing and assessing reasoned arguments, conducting thought experiments, assembling evidence from relevant sources and using that evidence to develop well-researched responses in written, audio-visual and oral forms. Graduates will have a well developed capacity to evaluate contrasting sets of data and/or claims, to formulate and consider the best arguments for different views and to identify the weakest elements of the most persuasive view and the fallacy of arguments. This will allow them to develop articulacy in identifying underlying issues in a wide variety of contemporary global situations and understand some of the sociological, political and economic implications of human interactions with the environment. In this process, graduates will interrogate some of the complex relationships that exist between the global environment, human cultures and values.

Our graduates will, through the process of engaging with the learning strategies used on the programme, (which will include team based and problem based learning, flipped and blended classrooms, and project weeks,) have developed the following attributes:

- The ability to motivate oneself and work autonomously and/or collaboratively to meet deadlines
- The ability to time manage and work on team projects in a constructive and supportive manner to deliver the requirements of a task
- A flexible and adaptable mind/approach that is able to face new situations creatively and self-critically.
- The ability to communicate effectively to a variety of audiences using a range of formats
- The interpersonal communication skills to enable effective team working
- The ability to argue and defend a case in an effective manner.

24. PROGRAMME AND INTERMEDIATE LEARNING OUTCOMES

The programme provides opportunities for students to develop and demonstrate knowledge and understanding (K) cognitive (thinking) skills (C) and other skills and attributes (S) in the following areas:

Level	Category	Learning Outcome	Associated Assessment Blocks Code(s)	Associated Study Blocks Code(s)	Associated Modular Blocks Code(s)

1					
Core Spine: Global Challenges					
	K,C	Identify key global challenges with a critical understanding of appropriate responses to , and management of, these challenges	GC11** GC12**	GC1***	
	K, C	Critically understand the relationship between the environment, human cultures and values, while demonstrating empathy for other stakeholders' points of view in the analysis and resolution of complex issues	GC12**	GC1***	
	K, C	Cross traditional subject boundaries, using texts drawn from a diverse range of sources, and critically evaluate different theoretical approaches and their interpretation of key concepts and practices	GC11**	GC1***	
	K, C	Identify appropriate (trans) disciplinary approaches to global challenges, while demonstrating a critical understanding of ideas concerning the nature of knowledge, values and experience	GC11**	GC1***	
	K, C	Demonstrate knowledge of the theory and application of quantitative research methods including the use of basic statistical procedures	GC12**	GC1***	
	C	Understand the benefits of creative thinking in producing novel ideas and solutions	GC11** GC12** GC13**	GC1***	
	S	Demonstrate the ability to undertake independent study and basic research, and to meet deadlines	GC11** GC12** GC13**	GC1***	
	S	Critically understand personal and group dynamics for effective team-working	GC11**	GC1***	
	S	Communicate ideas and views effectively, offering reasoned arguments supported by evidence in written analysis and verbal argumentation	GC11** GC12** GC13**	GC1***	
	S	Demonstrate confidence, personal discipline, inter-personal skills and initiative	GC11** GC13**	GC1***	
Strand One: Global Innovation					
	K	Understand the history of innovation and the nature of Transdisciplinary Global Innovation	GI11**	GI10XX	
	K	Understand how engineers have designed systems and solved problems	GI11**	GI10XX	
	K	Understand the fundamental scientific and engineering principles and methodology	GI12**	GI10XX	
	K	Understand the key concepts and issues in economic and social context of Transdisciplinary Global Innovation	GI13**	GI10XX	
	C	Recognise and identify inventive problems or opportunities for stakeholders in modern society	GI11**	GI10XX	
	C	Describe concepts of complexity and uncertainty in and for socio-technical systems	GI13**	GI10XX	
	S	Demonstrate elementary engineering skills	GI12**	GI10XX	
Strand Two: Planetary Health					
	K	Demonstrate multidisciplinary understanding of the elements of planetary health, the ability to describe and comment on key concepts and devise and sustain argument.	PH10XX	PH10XX	
	K	Demonstrate knowledge and understanding of the Earth's Systems and inter-relationships and interactions with ecological systems	PH11XX	PH10XX	
	K	Demonstrate knowledge and understanding of Earth's chemical and biogeochemical cycles and processes and the way these act in environmental systems	PH11XX	PH10XX	
	K	Demonstrate knowledge of the range of natural hazards in different settings and scales from global to local	PH11XX	PH10XX	
	K	Demonstrate knowledge and understanding of key dimensions of the principles, concepts and theories in epidemiology and global public health	PH13XX	PH10XX	
		Understand the interactions of the global and local context	PH13XX	PH10XX	

	K	within global public health			
	K	Understand and explain the significance of social inequalities and social identities in health	PH13XX	PH10XX	
	C	Apply knowledge to the interpretation of case studies	PH13XX	PH10XX	
Strand Three: Security					
	K	Demonstrate transdisciplinary understanding of security challenges, ability to describe and comment on key concepts and devise and sustain argument.	TS1201 TS1202 TS1204	TS 1101	
	K, C	Demonstrate multidisciplinary understanding of the philosophical and logical foundations of inference and reasoning and its applications in law and history and ability to relate and apply to security.	TS1201 TS1203	TS 1101	
	K, C	Understand the foundations of mathematical, statistical, and systems analysis and ability to relate and apply to security.	TS1201 TS1202 TS1203	TS 1101	
	K, C	Demonstrate multidisciplinary understanding of the foundations and methods of data collection and evaluation and ability to relate and apply to security.	TS1201 TS1202	TS 1101	
	K, C	Demonstrate understanding of the political, psychological and managerial means of developing persuasive arguments and lobbying strategies through written, verbal, and digital communications to wide range of government and industry security stakeholders.	TS1203 TS1204	TS 1101	
	C	Ability to apply knowledge and skills of security, analysis, reasoning, and influence to devise crisis management and denial and deception plans and intelligence assessments.	TS1202 TS1203 TS1204	TS 1101	
Strand Four: Social Cohesion					
	K	Demonstrate trans-disciplinary understanding of social cohesion, the ability to describe and comment on key concepts and devise and sustain argument	GG11** GG12**	SC10**	
	K	Understand the ways in which globalisation affects structures, processes and social groups in societies	GG11**	SC10**	
	K	Understand and describe the relationship between global, national and local social institutions	GG11** GG13**	SC10**	
	C	Challenge personal preconceptions	GG12** GG13**	SC10**	
	C	Evaluate different theoretical approaches and their interpretation of key concepts and practices	GG11** GG12** GG13**	SC10**	
	K	Understand and explain key concepts relating to social cohesion	GG11**	SC10**	
2					
Core Spine: Global Challenges					
	K, C	Critically evaluate (trans)disciplinary responses to real world problems, while identifying appropriate responses to, and management of, these challenges.	GC21** GC22**	GC2***	
	K,C	Cross traditional boundaries in the use of creative research methods, critically evaluating different theoretical and methodological approaches, with consideration of reflexivity and appropriate ethical considerations.	GC21** C22**	GC2***	
	K, C	Identify and apply valuation frameworks to support a business case, while demonstrating a critical understanding of appropriate approaches for different contexts.	GC23**	GC2***	
	K, C	Demonstrate knowledge of the theory and application of qualitative research methods, including basic data coding and analysis procedures.	GC22**	GC2***	
	K, C	Identify a range of possible clients and stakeholders when tackling Global Challenges, with critical awareness of appropriate modes of engagement, participation, and communication, to achieve impact.	GC23**	GC2***	
	K, C	Identify ways of recording industrial activity and illustrate professional development.	GC24**	GC2***	

	C	Apply creative thinking to produce novel ideas or solutions individually and in team-work.	GC21** GC22** CG23** CG25**	GC2***	
	C	Describe SMART objectives and assess exemplars for work-based learning.	GC24**	GC2***	
	C, S	Critically assess the appropriateness of evidence and methods used in selected literatures and datasets.	GC21** GC22**	GC2***	
	C, S	Develop well-rehearsed evaluative arguments supported by relevant data, examples, and close analysis	GC21** GC22**	GC2***	
	S	Demonstrate the ability to undertake independent study and basic research, and also the ability to work collaboratively in teams and to meet deadlines.	GC21** GC22** CG23** CG25**	GC2***	
	S	Demonstrate developed writing skills, the ability to meet deadlines and manage time effectively, reflecting professional practice.	GC21** GC22** GC23**	GC2***	
	S	Select career development support tools and demonstrate reflective practice.	GC24**	GC2***	
	S	Define professional behaviour and prepare for the workplace.	GC24**	GC2***	

Strand One: Global Innovation

	K	Understand the integration and negotiation of theories and concepts from varying problem domains	GI21**	GI20XX	
	K	Understand well established scientific principles and methodology	GI22**	GI20XX	
	K	Understand the business and cognitive context of Transdisciplinary Global Innovation	GI23**	GI20XX	
	C	Demonstrate convergent and divergent thinking to integrate and expand concepts from multiple fields to explore new concepts	GI21** GI22** GI23**	GI20XX	
	C	Define and formulate inventive problems or opportunities for stakeholders in the global society	GI22**	GI20XX	
	C	Apply analytical and empirical methods to solve an inventive problem	GI22**	GI20XX	
	C	Develop business and cognitive context and produce contextual analysis for Transdisciplinary Global Innovation	GI23**	GI20XX	
	S	Operate a broad range of workshop equipment safely and competently	GI22**	GI20XX	
	S	Communicate engineering concepts in both technical and lay language and express results in the proper context	GI22** GI23**	GI20XX	

Strand Two: Planetary Health

	K, C	Describe and explain key ways in which the Earth and its ecosystems have changed during the Anthropocene, examining different geographical and temporal scales and different sociocultural and economic contexts	PH20XX	PH20XX	
	C	Application of knowledge to interpretation of case studies and published data	PH20XX	PH20XX	
		Demonstrate a critical understanding of the links between ecosystem transformation and human health outcomes	PH21XX	PH20XX	

	K	using concepts from epidemiology, toxicology, exposure science, food safety and public health			
	K, C	Understand and explain the consequences of environmental change in the traditionally environment and traditionally health realms, and relate the two spheres	PH21XX	PH20XX	
	C	Critically engage with the range of vested interests both in support of and against the strong connections between environmental change and human health, articulate different points of view and propose ways of adjudicating between them.	PH21XX	PH20XX	
Stand Three: Security					
	K, C	Demonstrate systematic transdisciplinary understanding of space and ability to critically evaluate the security implications of militarisation and commercialisation of the outer space, the challenges of cyber security, and the physical space smart technologies on the future of human security.	TS2202 TS2203	TS 2101	
	K, C	Demonstrate systemic understanding of crime prevention, investigation, and analysis and ability to evaluate and apply well established financial crime analysis techniques.	TS2201 TS2203 TS2204	TS 2101	
	K, C	Demonstrate transdisciplinary understanding of war and war gaming and ability to critically evaluate the scholarly arguments.	TS2202 TS2203 TS2204	TS 2101	
	K, C	Demonstrate systematic understanding and ability to apply advanced statistical and probability analysis methods, risk analysis methods, and war gaming methods.	TS2201 TS2202 TS2203	TS 2101	
	K, C	Demonstrate understanding and ability to critically evaluate the logical, methodological and psychological perspectives of developing counterfactual argument and judgement under uncertainty in security.	TS2201 TS2203	TS 2101	
	K	Demonstrate understanding of multicultural dimensions of security challenges and its implications on security communications.	TS2201 TS2204	TS 2101	
Strand Four: Social Cohesion					
	K	Define key concepts such as the state, the nation, geopolitics and social exclusion and life chances	GG21**	SC20**	
	K	Demonstrate a critical understanding of contemporary debates concerning ethnicity, culture, nationalism and identity	GG21** GG22** GG23**	SC20**	
	K	Understand and explain historical, current and emerging developments in the broad and dynamic field of technology, culture and media	GG21** GG23**	SC20**	
	C	Critically engage with a range of key theorists whose work has shaped the field	GG21**	SC20**	
	C	Reflect critically on one's own practices and those of others	GG22** GG23**	SC20**	
	C	Engage with the issues arising in a range of substantive areas, articulate differing points of view and propose ways of adjudicating between them	GG21** GG22** GG23**	SC20**	
	S	Disseminate ideas and findings through appropriate digital formats	GG23**	SC20**	
3					
Core Spine: Global Challenges					
	K, C	Critically evaluate (trans)disciplinary interventions into real world problems, identifying appropriate responses to translating research findings into policy and practice, and appraising the impacts achieved.	GC31**	GC3***	
	C, S	Demonstrate the ability to use a range of presentation techniques, and critical awareness of appropriate approaches for engaging with a range of different stakeholders.	GC32** GC33**	GC3***	
	K, C	Demonstrate the ability to bid for and conduct an enterprise project, including identifying relevant stakeholders, the use of an appropriate theoretical approach / conceptual framework, applying creative research methods,	GC33**	GC3***	

		constructing an appropriate evaluation framework, and devising an engagement and impact plan.			
	C	Apply creative thinking to produce novel ideas or solutions individually and in team-work, meeting the expectations of external stakeholders.	GC31** GC33** GC34**	GC3***	
	C	Reflect on individual learning and intellectual development, making use of constructive feedback.	GC34**	GC3***	
	C, S	Critically assess the appropriateness of evidence and methods used in selected literatures and datasets.	CG31**	GC3***	
	S	Demonstrate the ability to undertake independent study and basic research, and also the ability to work collaboratively in teams and to meet deadlines, meeting the professional expectations of external stakeholders.	GC31** GC33**	GC3***	
	S	Demonstrate developed writing skills, the ability to meet deadlines and manage time effectively, reflecting professional practice.	GC31** CG32** GC33** CG34**	GC3***	
Dissertation					
	K, C	Demonstrate systematic transdisciplinary understanding of a global challenges theme and ability to formulate research question.			GC3000
	K, C	Demonstrate the ability to appropriately select and apply research methods.			GC3000
	K, C	Demonstrate ability to analyse, interpret, and reflect on primary and secondary sources and consolidate knowledge and understanding.			GC3000
	K, C	Demonstrate ability to critically evaluate arguments, assumptions, abstract concepts and data and to develop independent and evidence based argument.			GC3000
	S	Demonstrate the ability to plan and manage complex project.			GC3000
	S	Demonstrate the ability to present research in a clear and structured approach that draws upon sound writing, referencing skills and presentations skills.			GC3000
Strand One: Global Innovation					
	K	Understand abstraction and realisation of concepts from multiple fields in multiple representations	GI31**	GI30XX	
	K	Understand advanced technologies in selected science and engineering fields	GI31**	GI30XX	
	K	Understand the practices, models, theoretical perspectives and interpretations of technology policy and the management of technological innovation	GI32**	GI30XX	
	K	Understand the inter-relationships between the external environment and technological innovation	GI31**	GI30XX	
	K	Understand the production, purpose and application of policy documents	GI32**	GI30XX	
	C	Develop innovative processes from varying problem domains to meet the requirements of stakeholders	GI31**	GI30XX	
	C	Develop environmentally and socially sustainable systems and products	GI31**	GI30XX	
	S	Develop the ability to perform, manage and lead innovative projects that depend on effective teamwork	GI31**	GI30XX	
	S	Develop the skills to investigate appropriate technologies using industry provided data	GI31**	GI30XX	
Strand Two: Planetary Health					
	K	Demonstrate detailed knowledge of strategies and innovations to drive society towards sustainability and their importance to planetary health.	PH30XX	PH30XX	
	K	Synthesise and critically evaluate strategies and innovations for adaptation to and mitigation of environmental transformations with a focus on human health	PH30XX	PH30XX	
	K, C	Acquire in-depth knowledge of the tools and methods used by decision makers that could promote planetary health	PH31XX	PH30XX	

	K, C	Demonstrate in-depth knowledge of the competing priorities affecting policy change for planetary health with consideration of scale	PH31XX	PH30XX	
	C	Critically evaluate the purpose and effectiveness of environmental policies and events, considering the role of key stakeholders	PH31XX	PH30XX	
	K, C	Identify areas for potential human intervention to improve environments and health, considering economic, political and sociocultural influences	PH30XX PH31XX	PH30XX	
	C, S	Develop and apply planetary health interventions through generation of ideas and initiatives that are consistent with a pragmatic shift towards a sustainable society	PH30XX PH31XX	PH30XX	
Stand Three: Security					
	K, C	Demonstrate systematic understanding of modelling and simulation techniques and ability to apply to security domain.	TS3201 TS3202	TS 3101	
	K, C	Demonstrate critical understanding of transdisciplinary threats and ability to apply, evaluate and forecast future conventional and nonconventional threats to one of the world regions.	TS3202 TS3203 TS3204	TS 3101	
	C	Demonstrate the ability to critically evaluate argument, assumptions, and abstract concepts to make judgements, and to frame appropriate questions on transdisciplinary security.	TS3201 TS3203	TS 3101	
	K, C	Demonstrate systematic and critical understanding of public policy formulation and analysis and ability to apply to security policies.	TS3201 TS3203 TS3204	TS 3101	
	K	Demonstrate systematic understanding of the international and regional political and legal framework and its implications on security challenges.	TS3201 TS3204	TS 3101	
Strand Four: Social Cohesion					
	K	Understand the tensions and contradictions between internationally agreed mechanisms for assisting and protecting people at times of war and humanitarian principles and practices	GG31**	SC30**	
	K	Understand the discourse surrounding the term violence and observe and examine representations of violence	GG32**	SC30**	
	K	Comprehend the role and significance of international human rights in an economic, social and political context	GG31** GG32**	SC30**	
	K	Understand the production, purpose and application of policy documents	GG32**	SC30**	
	C	Apply theoretical models in order to explain representations of War, Violence, Social Exclusion and other concepts	GG32** GG31**	SC30**	
	K, C	Demonstrate the ability to critically evaluate arguments, assumptions, and abstract concepts to make judgements, and to frame appropriate questions on social cohesion	GG31**	SC30**	

Learning/teaching strategies and methods to enable learning outcomes to be achieved, including formative assessments

Students will carry out some self evaluation during induction week so that students have a good understanding of their strengths and areas for development. This will assist in the formation of balanced groups based on a recognition of students' current knowledge and skills base. Once groups are established, students will remain in these groups for much of the team based learning activity. Each week of the programme will commence with a briefing and introduction to the week's core strand content, tasks and any current issues that might be understood as informing the focus of the week's activities. This will allow a responsive attitude from both students and staff towards including real world situations and scenarios into discussion and activities. This briefing will be followed by sessions associated with the core strand which will involve a range of learning/teaching strategies including team based learning, problem based learning, blended learning, independent research and project activities. The week will end on Friday with a feedback session with input from staff and students, followed by further core spine sessions. This structure will allow for effective cohort formation and a forum for dialogue to ensure that any issues are addressed promptly and that there is an on-going setting for developmental feedback and feed-forward for staff and students. Because of the interdisciplinary nature of the programme and its location in the Centre for Trans-disciplinary Studies (CTS), it is hoped that this setting will provide a physical and psychical space for innovative teaching and research. The CTS will also host guest speakers and workshops and will be an open space that embraces the opportunity to support inter-disciplinary dialogue for undergraduates, post- graduates and staff.

Summative assessment strategies and methods to enable learning outcomes to be demonstrated

Assessments will include synoptic tasks, which require the integration of learning from more than one disciplinary area. These will include presentations, written and audio-visual reports (vlogs, blogs), essays, examinations, laboratory worksheets, coursework, and peer assessment.

25. Programme Structure, progression and award requirements

Programme structures and features: levels, assessment blocks, credit and progression and award requirements

- **Compulsory block:** one which all students registered for the award are required to take as part of their programme of study. These will be listed in the left hand column;
- **Optional block:** one which students choose from an 'option range'. These will be listed in the right hand column;
- A **core assessment** is an assessment identified within an assessment block or modular block (either compulsory or optional) which must be passed (at grade D- or better) in order to be eligible to progress and to be eligible for the final award. All core assessments must be specified on the programme specification next to the appropriate assessment or modular block:

Where students are expected to pass the block at D- or better, but not necessarily all elements, then the block itself is core.

e.g. AB3000 Project (40)
Core: Block

Where only some elements of assessments are required to be passed at D- or better, these will be identified by listing each element that is core

e.g. ABXXX1 Title (XX credits)
Core: 1 & 4

Where students are expected to pass all assessments in a block then this will be identified. By setting the assessment this way, students are also required to pass the block by default. This will be identified thus:

e.g. ABXXXX Title (XX credits)
Core: All, Block

- A **non-core assessment** does not have to be passed at grade D- or better, but must be better than a grade F, in order to progress and to be eligible for the final award.

The programme is structured around a core spine that is common to all students on the degree programme regardless of which of the four strands a student is registered on. The core spine runs through all three levels of the programme and provides all students at levels one and two with key skills in a range of quantitative and qualitative research methodologies including how to design systems, statistics, coding, estimation, algorithms, data collection, data analysis, ethnography, interview and surveys. This is where the programme will tap into the expertise of departments from across the university. In parallel, students will be provided with a contextual framework that takes a more philosophical approach to considering how knowledge is constructed and how each discipline frames up its own identity and uses evidence with particular ends in mind.

The development of study blocks for each strand that draw upon the existing content of modules (as well as developing discrete content) allows the programme to efficiently achieve its aims and will not result in additional work for individual module leaders who may host students in their classes or through access to their modular content. Strand leaders will work closely with module leaders on the selected modular blocks to ensure there is a thorough understanding of what content is covered when and how this fits with the learning outcomes of the strand study block. Moreover, the ongoing dialogue that is expected to take place between module leaders on existing modular blocks and the strand leaders of this programme, will mean that should a modular block be revised or updated, then the content used for the BAsC will also evolve. The overall design will result in more class time for these students, but not more assessment as the assessments for the strand study blocks will have their own synoptic or other assessments. In addition, the learning from individual modular content may be mapped to more than one assessment block so that effort and assessments of learning outcomes are not repeated. As a result, the programme will have considerable quantities of synoptic assessment that effectively model authentic 'real world' activity.

The assessment blocks of the core spine of the programme consists of 50 credits, with 70 credits at each level attributed to the assessment blocks associated with individual strands to make up an overall 360 credits.

Level 1	
<p>Compulsory assessment block codes, titles and credit</p> <p>Compulsory for Core Spine GC11XX Addressing Global Challenges (20 Credits) GC12XX Introduction to Global Challenges (15 Credits) GC2XXX Addressing Global Challenges (15 Credits)</p> <p>Compulsory for Planetary Health Pathway PH10XX Foundations of Planetary Health in Practice: Introduction to Planetary Health (20 Credits) PH11XX Foundations of Planetary Health in Practice: Natural Systems and Processes (20 Credits) PH13XX Foundations of Planetary Health: Global Public Health and Social Justice (30 credits)</p> <p>Compulsory for Global Innovation Pathway GI11** Introduction to Global Innovation (10 credits) GI12** Fundamental Scientific and Engineering Principles and Methodology (40 Credits) GI13** Transdisciplinary Global Innovation in Society (20 credits)</p> <p>Compulsory for Security Pathway TS1201: Integrated Security Concepts (20 Credits) TS1202: Integrated Security Applications (20 Credits) TS1203: Integrated Security Analysis (10 Credits) TS1204: Integrated Security Communication (20 Credits)</p> <p>Compulsory for Social Cohesion Pathway GG10YY Understanding Social Cohesion I. Concepts & Structures: Handbook (30 credits) II. Systems of Society: Analysis and Exploration (20 credits) III. Approaches to Media: Interpretation and Dissemination (20 credits)</p>	<p>Optional assessment block codes, titles and credits</p>
<p>Compulsory study block codes, titles and credit volume</p> <p>Compulsory for Core Spine GC1*** Introduction to Global Challenges (50 credits)</p> <p>Compulsory for Planetary Health Pathway PH10XX Foundations of Planetary Health (70 credits)</p> <p>Compulsory for Global Innovation Pathway GI10XX Global Innovation Investigation (70 credits)</p> <p>Compulsory for Security Pathway TS 1101: Integrated Security: Security, Intelligence, Reasoning, and Influence (70 credits)</p> <p>Compulsory for Social Cohesion Pathway SC10XX Introduction to Social Cohesion (70 credits)</p>	<p>Optional Study block codes, titles and credit volume</p>

Compulsory modular block codes, titles and credits	Optional modular block codes, titles and credits
Level 1 Progression and Award Requirements	
As per Senate Regulation 2	

Level 2	
Compulsory assessment block codes, titles and credits	Optional assessment block codes, titles and credits
<p>Compulsory assessment block codes, titles and credits</p> <p>Compulsory for Core Spine</p> <p>GC2XXX Addressing Global Challenges (20 Credits)</p> <p>GC2XXX Addressing Global Challenges (10 Credits)</p> <p>GC2XXX Addressing Global Challenges (10 Credits)</p> <p>GC2XXX Addressing Global Challenges (5 Credits)</p> <p>GC2XXX Addressing Global Challenges (5 Credits)</p> <p>Compulsory for Planetary Health Pathway</p> <p>PH20XX Environmental Change (30 Credits)</p> <p>PH21XX Ecosystem Transformations and Health Impacts (40 credits)</p> <p>Compulsory for Global Innovation Pathway</p> <p>GI21** Transdisciplinary Knowledge Integration and Negotiation (10 credits)</p> <p>GI22** Transdisciplinary Science and Engineering (40 credits)</p> <p>GI23** Transdisciplinary Global Innovation in Organisations (20 credits)</p> <p>Compulsory for Security Pathway</p> <p>TS2201: Applied Security Concepts (20 Credit)</p> <p>TS2202: Applied Security Applications (20 Credit)</p> <p>TS2203: Applied Security Analysis (20 Credit)</p> <p>TS2204: Applied Security Communication (10 Credit)</p> <p>Compulsory for Social Cohesion Pathway</p> <p>GG20YY Analysing Movements and Technologies</p> <ol style="list-style-type: none"> I. Migrations Portfolio (30 credits) II. Dialogue and Dissent: Reflections and Responses- Policy Briefing (10 credits) III. Reflexive journal (10 credits) IV. Digital Innovation (20 credits) 	

<p>Compulsory study block codes, titles and credit volume</p> <p>Compulsory study block codes, titles and credit volume</p> <p>Compulsory for Core Spine GC2*** Addressing Contemporary Global Challenges (50 credits)</p> <p>Compulsory for Planetary Health Pathway PH20XX Ecosystem Transformations and Health Impacts (70 credits)</p> <p>Compulsory for Global Innovation Pathway GI20XX Global Innovation Integration (70 credits)</p> <p>Compulsory for Security Pathway TS 2101: Applied Security: War, Crime, Space, Risk, and Society (70 credits)</p> <p>Compulsory for Social Cohesion Pathway SC20** Movements & Technologies (70 credits)</p>	<p>Optional Study block codes, titles and credit volume</p>
<p>Compulsory modular block codes, titles and credits</p>	<p>Optional modular block codes, titles and credits</p>
<p>Level 2 Progression and Award Requirements</p> <p>As per Senate Regulation 2</p>	

<p>Level 2 – Sandwich Placement</p>	
<p>Compulsory assessment block codes, titles and credits</p>	<p>Optional assessment block codes, titles and credits</p>
<p>Compulsory study block codes, titles and credit volume</p>	<p>Optional study block codes, titles and credit volume</p>
<p>Compulsory modular block codes, titles and credits</p> <p>GC2*** Work Placement(120 Credits) Core: block</p>	<p>Optional modular block codes, titles and credits</p>
<p>Level 2 Placement Progression and Award Requirements</p> <p>As per Senate Regulation 2</p> <p>For (BASc Global Challenges (Planetary Health with Professional Practice BASc Global Challenges (Social Cohesion with Professional Practice, BASc Global Challenges (Global Innovation with Professional Practice, BASc Global Challenges (Security with Professional Practice), (GC2***)) will contribute 25% of the Level 2 profile and 8.3% of the overall degree calculation.</p>	

Level 3	
<p>Compulsory assessment block codes, titles and credits</p> <p>Compulsory for Core Spine GC3XXX Global Challenges in Practice (10 Credits) GC3XXX Global Challenges in Practice (5 Credits) GC3XXX Global Challenges in Practice (10 Credits) GC3XXX Global Challenges in Practice (5 Credits)</p> <p>Compulsory for Planetary Health Pathway PH30XX Intervention Proposal: Healing the Planet in Practice (25 Credits) PH31XX Evidence Based Policy Document: Healing the Planet in Practice (25 Credits)</p> <p>Compulsory for Global Innovation Pathway GG31** Transdisciplinary Global Innovation in Multiple Representations (40 credits) GG33** Global Innovation Management (10 credits)</p> <p>Compulsory for Security Pathway TS3201: Advanced Security Concepts (10 Credit) TS3202: Advanced Security Applications (10 Credit) TS3203: Advanced Security Analysis (15 Credit) TS3204: Advanced Security Communication (15 Credit)</p> <p>Compulsory for Social Cohesion Pathway GG30YY Investigating Challenges & Communities I. Book proposal (30 Credits) II. Evidence Based Policy Document (20 credits)</p>	<p>Optional assessment block codes, titles and credits</p>
<p>Compulsory study block codes, titles and credit volume</p> <p>Compulsory for Core Spine GC3*** Global Challenges in Practice (30 credits)</p> <p>Compulsory for Planetary Health Pathway PH30XX Healing the Planet (50 credits)</p> <p>Compulsory for Global Innovation Pathway GI30XX Global Innovation Practice (50 credits)</p> <p>Compulsory for Security Pathway TS 3101: Advanced Security: Threats, Simulation, and Government (50 credits)</p> <p>Compulsory for Social Cohesion Pathway SC30XX Challenges & Communities (50 credits)</p>	<p>Optional study block codes, titles and credit volume</p>
<p>Compulsory modular block codes, titles and credits</p> <p>GC3000 Arts and Sciences Dissertation in Global Challenges (40 Credits) Core: Block</p>	<p>Optional modular block codes, titles and credits</p>
<p>Level 3 Progression and Award Requirements</p> <p>As per Senate Regulation 2 For (BAsc Global Challenges (Planetary Health with Professional Practice BAsc Global Challenges (Social Cohesion with Professional Practice, BAsc Global Challenges (Global Innovation with Professional Practice, BAsc Global Challenges (Security with Professional Practice), (GC2***) will contribute 25% of the Level 2 profile and 8.3% of the overall degree calculation (will contribute 8.3% of the overall degree calculation</p>	

Please note: this specification provides a concise summary of the main features of the programme and the learning outcomes that a student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods can be found in the modular block, assessment and study block outlines and other programme and block information. The accuracy of the information contained in this document is reviewed by the University from time to time and whenever a modification occurs.