

INCOMING EXCHANGE CLASS CODES (RE CURRICULUM): Session 2021/22

This is a guide to assist you in choosing a provisional curriculum which you will have to submit as part of your exchange application process. **This is not a guarantee that these classes will be available during your time on exchange but we hope that most, if not all, will be running and will confirm your curriculum once you are here in the UK.**

STUDIO

For those students coming for 1st semester + 2nd semester – FULL YEAR (Sept-May)

Year	Studio Title	Code	Credits	ECTS
1	Design Studio 1A	AB106	20	10
	Design Studio 1B	AB107	20	10
	Design Studio 1C	AB108	20	10
	Design Studio 1D	AB109	20	10
2	Design Studio 2A	AB208	20	10
	Design Studio 2B	AB209	20	10
	Design Studio 2C	AB210	20	10
3	Design Studio 3A	AB317	20	10
	Design Studio 3B	AB318	40	20
4	Design Studio 4A.E	AB422	30	15
	Design Studio 4B.E	AB423	30	15
4	Design Studio 4A	AB418	20	10
4	Design Studio 4B	AB419	40	20
UD	Urban Design Studio 1A	AB931	10	5
	Urban Design Studio 1B	AB932	10	5
	Urban Design Studio 2	AB973	20	10
	Urban Design Studio 3	AB974	20	10
5	Design Studies 5A	AB964	20	10
	Design Studies 5B	AB965	40	20

For those students coming for 1st semester (Sept-Jan)

Year	Studio Title	Code	Credits	ECTS
1	Design Studio 1A	AB106	20	10
	Design Studio 1B	AB107	20	10
2	Design Studio 2A	AB208	20	10
	Design Studio 2B	AB209	20	10
3	Design Studio 3A	AB317	20	10
4	Design Studio 4A.E	AB422	30	15
4	Design Studio 4A	AB418	20	10
UD	Urban Design Studio 1A	AB931	10	5
	Urban Design Studio 1B	AB932	10	5
5	Design Studies 5A	AB964	20	10

For those students coming for 2nd semester (Jan-May)

Year	Studio Title	Code	Credits	ECTS
1	Design Studio 1C	AB108	20	10
	Design Studio 1D	AB109	20	10
2	Design Studio 2C	AB210	20	10
3	Design Studio 3B	AB318	40	20
4	Design Studio 4B.E	AB423	30	15
4	Design Studies 4B	AB419	40	20
UD	Urban Design Studio 2	AB973	20	10
	Urban Design Studio 3	AB974	20	10
5	Design Studies 5B	AB965	40	20

SUBJECT CLASSES

Cultural Studies

The aim of the class is to equip students to analyse, discuss, and write about architecture of all periods. The course will familiarise students with the architecture which surrounds them, and with the development of Glasgow as a city. The importance of social, political and economic context in shaping architectural practice and urban development will be discussed. The theoretical underpinnings of architectural practice throughout history will be presented to students as an opportunity to enrich and interrogate their personal understanding of architecture and their own design work.

Year 1

The 1st semester will be an introduction to ways of looking at and talking about buildings. The extent to which architectural design displays continuities running through the centuries will be emphasised, but so will the extent to which other aspects of architecture change radically through time. To elucidate these points, the lectures will focus on certain perennial building elements (windows, staircases etc.), and on historical uses of key materials.

The 2nd semester will apply the analytical and communication skills acquired during the first term to the classical architectural tradition, especially as it manifests itself in pre-twentieth-century Glasgow and Edinburgh. The course will equip students with an intellectual apparatus with which to understand and analyse the architecture which they see every day, and which provides the context for many of their design projects. The historical development of Glasgow, and the economic and social factors which shaped the city and its architecture, will be explored to give students an appropriate cultural context for their architectural studies.

	Class Code	Credit	ECTS
For those students coming for Semester 1 AND Semester 2	AB 110	20	10
For those students coming for Semester 1 ONLY	22 137	10	5
For those students coming for Semester 2 ONLY	22 137	10	5

Year 2

The 1st semester of Year 2 will look at pre-modernist alternatives to the classical tradition studied in the previous semester. These will include medieval architecture, vernaculars and several non-Western architectural traditions. In conjunction with the previous semester this will expose students to a wide range of historical design approaches and encourage them to examine their own design assumptions in the light of these alternative traditions.

The 2nd semester of Year 2 and 1st semester of Year 3 will together provide an overview of nineteenth- and twentieth-century developments in architectural theory and practice.

	Class Code	Credit	ECTS
For those students coming for Semester 1 AND Semester 2	AB 211	20	10
For those students coming for Semester 1 ONLY	22 266	10	5
For those students coming for Semester 2 ONLY	22 267	10	5

Year 3

1st semester of Year 3 will together provide an overview of nineteenth- and twentieth-century developments in architectural theory and practice. Industrialisation, the modern movement and the postmodern challenge to it have together shaped the current architectural world, and the history of these movements will be looked at in detail from a variety of approaches and angles. The social and political changes which underlay many of these developments will be highlighted. As with the earlier semesters, buildings in Glasgow will be drawn upon wherever possible as examples. This emphasis on local architecture not only enables students to visit the buildings we are discussing both on formal tours and on their own, but also to acquire a deeper knowledge of the specific architectural history of the city in which they are studying. There will be an emphasis in the first semester of Year 3 on the „urban block“ and housing to align with the design studio programme.

The 2nd semester of Year 3 will be taught as one component of an intensive **international study trip**, looking at buildings and urban developments on site.

	Class Code	Credit	ECTS
For those students coming for Semester 1 AND Semester 2	AB 314	20	10
For those students coming for Semester 1 ONLY	22 373	10	5
For those students coming for Semester 2 ONLY	22 374	10	5

Technology Studies

Technology Studies is one of three compulsory classes taught to first, second and third year students in the under-graduate architectural programme in the Department and continues integrated into studio in the Part 2 programme.

The course covers all structural, constructional and materiality aspects of designing a building structure. It provides students with the ability to understand various types of building structures and construction theories and systems. Building elements such as beams, columns, walls and roof forms are explained, structural principles such as stress, strain, deflection, bending moments and shear forces are introduced and the behaviour of materials such as timber, masonry, steel and concrete are looked at from both a historical and present day standpoint. Simple design techniques in materials are discussed alongside load bearing capacities of various elements

It also includes every aspect of environmental design including the fundamentals of building physics such as heat transfer, light, ventilation and water services and a wide variety of environmental engineering knowledge including mechanical systems design, U values, SAP and NHER calcs, CO2 and energy consumption knowledge. Environmental and sustainable responsibility is encouraged and embraced from the outset, and specific strategic and calculable responses are investigated to ensuring an understanding of human comfort and well being, with a view towards a sustainable built environment.

A key agenda of the course is to develop holistic design skills, and the course integrates directly with the architecture design studio, to bring added value to the students learning. The structure, construction systems and environmental strategies and technologies have to be fully researched and applied appropriately into all the studio designs. This is vital in ensuring student understanding of the key role technology takes within the architecture design process.

The delivery of the course encompasses a variety of learning formats including lectures, seminars, workshops, studio design tutorials and study trips.

Year 1

In first year, students are introduced to an elementary structural/construction and environmental vocabulary. The taught programme includes lectures, seminars and workshops that describe elementary structural and environmental principles. The properties and behaviour of the four main construction materials, the basics of framed and load-bearing construction and the fundamentals of sustainability, low carbon design and building physics are introduced.

	Class Code	Credit	ECTS
For those students coming for Semester 1 AND Semester 2	AB 111	20	10
For those students coming for Semester 1 ONLY	22 143	10	5
For those students coming for Semester 2 ONLY	22 144	10	5

Year 2

In second year, students are expected to engage with technology at a more specific level by researching materials, construction and environmental systems as well as developing an integrated sense of the strategic implications of structure, construction and environment in the design process. They are introduced to dedicated issues of structure, detail, material choice as well as energy systems and basic building physics calculations. A developed knowledge of the four main structural materials is supplemented by the introduction of contemporary materials and an introduction to the important issue of environmental/sustainable design embedded within current legislation. The emphasis in second year is to encourage and enable students to integrate, through analysis and synthesis, all aspects of technological design into their studio design projects. The technology curriculum in 2nd year is supported by environmental and structural engineering technology workshops and tutorials.

	Class Code	Credit	ECTS
For those students coming for Semester 1 AND Semester 2	AB 212	20	10
For those students coming for Semester 1 ONLY	22 243	10	5
For those students coming for Semester 2 ONLY	22 244	10	5

Year 3

In third year, students are expected to develop a cognitive ability to perceive the design process as completely holistic encompassing a wide variety of subject areas. The delivery of technology is therefore completely integrated into the studio design programme, with an expectation that the student can evidence an ability to apply and resolve construction detailing, environmental response and structural comprehension within a relatively complex architectural programme. The studio programme's technology component is therefore supported by case studies presented by practicing architects and engineers in lectures and seminars, as well as dedicated environmental and structural engineering technology workshops and tutorials. This class is delivered **ONLY** in Semester 1 of Year 3.

	Class Code	Credit	ECTS
For those students coming for Semester 1 ONLY	AB 316	20	10

OPTION CLASSES (level 4)

Ecology, Sustainability and Built Environment

Contact: d.grierson@strath.ac.uk

The class aims to foster an awareness of both the historical and theoretical context of environmental sustainability and offer a critical examination of the way in which issues of sustainability relate to the built environment. The module blends online learning via the University's VLE with a series of group seminars.

	Class Code	Credit	ECTS
Semester 1 ONLY	22 563	10	5

Sustainable Development Goals – Architecture and Urbanism

Contact: ashraf.salama@strath.ac.uk

Centered on United Nations Sustainable Development Goals (UN-SDG) as they relate to buildings and urban environments, this classes bridges traditional boundaries between arts, humanities and sciences (environmental and social), and between research and design. It aims to provide a comprehensive understanding of contemporary environmental, social and economic challenges in various contexts where architects and urbanists design and plan buildings, communities, and cities in response to these challenges. The content is delivered by various experts and incorporates conceptual understandings, theoretical underpinnings, and methodological approaches to sustainable architecture and development from a wide range of interdisciplinary perspectives. Substantiated by real-world cases from local, regional and international governments, practices, and development agencies, the class develops student skills in sustainable design thinking, analysis, and assessment. Students have opportunities to learn from examples and understand a multitude of approaches to utilize in examining cases from SDGs perspective, their relationships with, and relevance to, professional practice in architecture and urban design and planning.

	Class Code	Credit	ECTS
Semester 2 ONLY	tbc	10	5

OPTION CLASSES (level 5)

Sustainability

Contact: d.grierson@strath.ac.uk

This module aims to provide students with an understanding of the concepts of sustainability and sustainable development. The social, environmental, and economic impact of development strategies will be identified and the mitigation of negative impacts discussed. In particular, on completion of the module students will understand the concept of social, environmental and economic sustainability and be able to discuss population, urban, and economic growth strategies and their impacts.

Semester 1 ONLY	Class Code AB 975	Credit 10	ECTS 5
------------------------	----------------------	--------------	-----------

International Workshop

Contact:ulrike.enslein@strath.ac.uk

Attendance at International Workshops allow the student to pursue areas of specific interest out-with the confines of the set curriculum and assist in developing awareness of cultural diversity and integration, attributes that are encouraged to enhance the development of the p/g student both architecturally and personally.

Semester 1 ONLY	Class Code AB 957	Credit 10	ECTS 5
------------------------	----------------------	--------------	-----------

Cultural and Behavioural Factors in Architecture and Urbanism

Contact:ashraf.salama@strath.ac.uk

This course introduces students to cultural, social, and psychological issues in architectural and urban design, and to the field of environment behaviour. It provides an overview and analysis of the literature and major scholars and researchers in the field. An integral component of the course is an intensive discussion of issues that pertain to ways in which information about socio-cultural factors and environment-behaviour research can be applied to design projects. The course views that the built environment is not simply a background against which human actions take place, but it regards it as it reflects and shapes human assumptions, beliefs, feelings, and actions.

Semester 2 ONLY	Class Code AB988	Credit 10	ECTS 5
------------------------	---------------------	--------------	-----------

FACILITIES MANAGEMENT

Contact: z.chen@strath.ac.uk

This module aims to provide students from different backgrounds the opportunity to engage in useful learning into the subject field of FM with focuses on the body of advanced professional knowledge (FMBOK: Facilities Management Body of Knowledge) on the comprehensive sophisticated principles and the contemporary best practice in an international perspective and to develop students' professional skills to address important issues on the management of built assets including buildings and infrastructures in connection with technical aspects on three domains covering clients and professionals, service products, and management processes with regard to subject mastery and personal abilities focusing on the best practice and further research towards technical innovations and the continuous enhancement of professional competence in the subject field of FM. In the meantime, this module also aims to provide rich connections to other related subject fields for students to develop a holistic view of the sustainable engineering of buildings and infrastructures in terms of the use of advanced construction technologies and the implementation of building information management. This module will develop knowledge and skills for students to improve design with regard to the principles of facilities management.

Semester 1 only	Class Code AB 995	Credit 10	ECTS 5
------------------------	----------------------	--------------	-----------

Building Information Management

Contact: ibrahim.motawa@strath.ac.uk

The aim of this module is to provide the students with insight about main concepts and principles of Building Information Management, vis-à-vis processes, protocols, and enabling technologies. The module is mainly concerned with recent paradigm shift within the Architecture/Engineering/Construction industries worldwide to implement BIM Level 2 and target BIM Level 3 in all public projects as well as encouraging it in private projects. This module is also heavily inspired by the UK Government's BIM mandate to adopt BIM technologies and processes on all public sector projects from 2016. The lectures, tutorials, and assignments of the module will cover strengths and weaknesses, opportunities and threats associated with adopting BIM in AEC projects and its impact on working procedures as well as business models of AEC industry. This will be further elaborated in lights of real-life national and international scenarios and case studies.

Semester 2 only	Class Code AB 991	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------

Advanced Construction Technologies

Contact: ibrahim.motawa@strath.ac.uk

This module evaluates the innovative methodologies and approaches for adopting cutting-edge Information and Communication Technologies (ICT) to address the myriad of issues related to the fragmented nature of Architecture/Engineering/Construction (AEC) industry. The main objective of the module is to fill the gap in curricula for supporting the AEC industry in coping with the UK Government mandate for implementation of BIM Level 2 in all public projects from 2016, and the prospective BIM Level 3 mandate. The module seeks to extend knowledge of ICT integrated practices and approaches in terms of innovative transdisciplinary solutions such as advanced manufacturing technologies and the transportation/assembly of components, and intelligent decision making support etc., the convergence of which can contribute to optimising the "total building performance" and minimising the waste and environmental impact in smarter AEC practice.

This module also aims to develop student's analytical skills covering the production process, with particular emphasis on the use of ICT to: maximise the end users' wellbeing; reduce failures/defects; improve construction health and safety; leverage collaborative working; increase efficiency; and support smart measures to support zero carbon and low impact construction.

The module offers students with multiple opportunities to 1) recognise the major gaps and sources of issues in the AEC industry with regards to collaborative practice; 2) understand and be familiar with the potential role of different aspects of ICT to support collaboration and integrated decision making within AEC practice;

3) learn about critically evaluating (from a socio-economic, technical, and environmental perspective), the dynamics and dependencies of alternative ICT integrated solutions for AEC design and management against conventional discipline based methodologies; 4) learn about applying the cutting-edge concepts of ICT integrated design and management to develop proposals for optimising design, construction and maintenance of facilities; and 5) learn about evaluating alternative ICT solutions with respect to the resolution of current technical and socio-economic problems within AEC context.

Semester 1 only	Class Code AB 998	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------

Urban Design History

Contact: ombretta.r.romice@strath.ac.uk

This class aims at developing students' expertise in an area of their choice; in particular the field of study deals with GC4 (urban design), and the class equips the students with further knowledge in the understanding the historic development of urban forms and the possible use of historic experiences for future design. The specific design qualities of selected historic examples will be analysed, and the way in which historic circumstances - i.e. conditions like politics, economy, society, technology or culture - have shaped these specific forms will be researched.

*Note: Limited numbers

Semester 1 ONLY	Class Code AB 936	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------

Urban Theory

Contact: ombretta.r.romice@strath.ac.uk

This class aims at developing students' expertise in an area of their choice; in particular the field of study deals with GC4 (urban design), and the class equips the students with further knowledge in the theoretical debate around urban form in relation to economic, environmental, cultural issues and social issues; the class discusses historic and contemporary issues, tracing the impact of urban theories on our cities and their hinterland, and the repercussions on life styles and sustainability. This class aims to enhance the critical understanding of the complex phenomenon of the city and the relation of urban design to the city in general by considering key theories in urban planning and design. Analysis includes formal, aesthetic, social, political, economic, technological and cultural aspects.

Semester 2 ONLY	Class Code AB 939	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------

Urban Landscape Design

Contact: sergio.porta@strath.ac.uk

This class aims at developing students' expertise in an area of their choice; in particular the field of study deals with GC4 (urban design), and the class equips the students with further knowledge on the delivery of socially sustainable solutions focussing on the interface between built and open space components of the urban environment and its relevance to the health and well-being of urban inhabitants. This class aims at both understanding major historic developments regarding the design of landscape in the urban context and enhancing the ability to develop appropriate design strategies for landscape elements in the city. In particular it will explore the importance of green space networks and their integration with streetscape as integral to the delivery of sustainable urban environments. Emphasis will be placed on the delivery of socially sustainable solutions focussing on the interface between built and open space components of the urban environment and its relevance to the health and wellbeing of urban inhabitants.

Semester 2 ONLY	Class Code AB935	Credit 10	ECTS 5
-----------------	---------------------	--------------	-----------

Theory of Conservation

Contact:c.gonzalez-longo@strath.ac.uk

The module aims to provide knowledge and understanding of conservation principles and ethics. This module will immerse the students into the history and theory of conservation, reviewing the main international and local schools of thought, understanding how they developed and relating them to practical realisations. The students will be introduced to the wider picture of conservation, including the evolution of planning conservation and the understanding of the issues of public interest and economics.

Semester 1 ONLY	Class Code AB 978	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------

Architecture and Construction History

Contact:c.gonzalez-longo@strath.ac.uk

This module aims to present architectural and construction history both as the wider context of the buildings and as tools for its analysis. The course will provide an alternative reading of architecture through the technical historical processes and culture that produced them. It will reflect on the complex array of context, conditions and their interaction during the historic development of buildings. Urban History will be also introduced within this module.

Semester 1 only	Class Code AB 979	Credit 10	ECTS 5
-----------------	----------------------	--------------	-----------