

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-101	Project MA 1	MM	1	Prof. Weinmiller

Department	Duration
Design and Drafting	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
10 CPs (= 300 hour workload)	4 WHS (= 42 contact hours)	258 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Monodisciplinary Project (Drafting) MA 1:

Monodisciplinary projects are worked on by teachers and students of a given discipline.

- Security and expertise in working on architectonic and urban development assignments and problems.
- Ability to perceive and take into account the urban development environment and the context relevant for the project. Ability to work creatively and reflectively in complex contexts of location, task, conceptual idea, form, function and technology.
- Realistic assessment of the individual special capabilities and tendencies on selected topics in the drafting and planning process for targeted, individual professional specialisation and/or development of a scientific profile in the following semesters of Master's study.

Qualification objective of theoretical projects:

- Ability to compile and evaluate meaningful societal knowledge in order to work on architecture-related situations. Development of an independent, social scientific approach to the built environment.

Competences of theoretical projects:

- Scientific work in accordance with the multiplicity of the architectural discipline, with its artistic, engineering, societal and humanities-based aspects.
- Perception of space taught through empirical investigations. Ability to adopt a transdisciplinary perspective in drafting work.

Module content

- Methods, pathways and processes to develop a concept following reflection on location and assignment.
- Development and derivation of concept ideas into tangible drafts through critical awareness and understanding of comparable architectural projects. Conceptual and drafting results should be developed in complex contexts through both reciprocal and cumulative working steps in the pre-drafting and drafting phases and in exemplary construction, material and technology aspects.
- Reflection on, and discussion and evaluation of, respective interim results and drafting results as a whole.
- Appropriate forms of display and presentation in sketches, drawings, images, models, language and writing.
- Project-related introductory lectures on the aforementioned teaching content, excursions to the project site and exemplary regional, national and international projects where appropriate, supplementary seminars interspersed with exercises on individual aspects of the task.
- Independent theoretical and practical work on the site and its urban context as well as on the concept and drafting, managed through weekly individual and group guidance in the analytical, evaluatory and drafting process.
- Presentation and discussion of all respective interim results on a minimum of two occasions in the semester. Final presentation at the end of the semester.

Content of theoretical projects:

- Investigation of social functions of space using scientific methods, for example, the change in working processes and analysis of administration buildings
- Changing cultural behaviour and analysis of museum buildings, child development, child requirements and analysis of buildings for children.

Recommended literature

Varying

Forms of teaching and study

Project MA 1 – Monodisciplinary Project: 10 CPs, lectures / seminars / project (4 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type	Examination duration (for written/oral examinations)
Semester essay / presentation	
Calculation of module grade	
Grades from extended essay / presentation 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-102	Orientation for Further Study: Form + Design / Urban Development / Landscape	MM	1	Prof. Weinmiller

Department	Duration
Design and Drafting	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs for Design, or 5 CPs for Urban Development, or 5 CPs for Landscape (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Orientation for Further Study: Form + Design:

- Development of a specific conceptual and experimental design and drafting approach
- Understanding of architectural design as an integration of creative disciplines in every scale
- Architectonic methods/strategies in the examination of people, space, form, colour, material, movement and other creative disciplines
- Skills in interacting with media in the design process

Alternatively: **Orientation for Further Study: Urban Development:**

- Deepened understanding of the urban environment and urban development methods

Alternatively: **Orientation for Further Study: Landscape:**

- Deepened understanding of landscape as a part of the city

Module content

Orientation for Further Study: Form + Design:

Experimental exercises ("studies") on integral space, form, colour, material, movement and other creative disciplines: Interdisciplinary, spatially contextual and intermedial drafting assignments and experiments.

Alternatively: **Orientation for Further Study: Urban Development:**

In this Master's module, the system of the city as a living space is explored in further detail along with urban development methods, supported by specialist lectures and day excursions.

Alternatively: **Orientation for Further Study: Landscape:**

This Master's module analyses in further detail the idea of landscape as a complex aesthetic, creative and constructional phenomenon with the form of natural realities, such as topographical elements and complex artefacts such as territorial infrastructures, with such aspects explored in further detail as elements of landscape planning.

Recommended literature

Varying

Forms of teaching and study

Form and Design or Urban Development or Landscape: 5 CPs, lectures / seminars (3 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars — compulsory attendance

Examination type

Presentation / assignments / extended essay / written examination

Examination duration (for written/oral examinations)

Calculation of module grade

Form and Design or Urban Development or Landscape:

Grades from presentation / assignments / extended essay / written examination (100%)

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-103	Orientation for Further Study: Construction / Technology and Physics	MM	1	Prof. Dr. Willkomm Prof. Braun Prof. Dr. Dietrich

Department	Duration
Construction and Technology	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs for Construction, or 5 CPs for Technology and Physics = 5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
To develop the students' ability to conceive of and further develop their own demanding drafts, from structural design, building physics and technical perspectives, while retaining and reinforcing the original design idea. To update acquired skills in selected sub-areas. To examine the congruence of design and sustainability, as well as the interrelations of drafting, construction, building envelopes and technology.
Module content
Classification of demanding design concepts, e.g. extensive, sustainability-oriented, solar-architectonic, efficiency-optimised, etc. <ul style="list-style-type: none"> • Analysis of exemplary structures (best practice) • Recognition of interrelations of construction, support structure, building envelope, technology, materials, function and form • Acquisition of information on construction products, materials, new developments and innovations • Integration of specialist disciplines and engineers • Understanding of execution planning not as "technical details" but rather as "drafting from the concept to precise details". <p>Orientation for Further Study: Construction:</p> <ul style="list-style-type: none"> • Focus on construction and support structures <p><i>Alternatively: Orientation for Further Study: Technology and Physics:</i></p> <ul style="list-style-type: none"> • Focus on solar architecture and energy technology • Focus on building envelope and occupant comfort
Recommended literature
Varying
Forms of teaching and study
Construction or Technology and Physics: 5 CPs, lectures / seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Construction or Technology and Physics: Presentation / assignments / extended essay / written examination	
Calculation of module grade	
Construction or Technology and Physics: Grades from presentation / assignments / extended essay / written examination (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Fundamental knowledge and constructional, building physics and technical drafting skills from BA studies
Module application / admission requirements for further modules (mandatory or recommended)
Recommended preparation for participation in further modules in the Construction and Technology department
Module frequency
Annual
Language of instruction

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-104	Orientation for Further Study: Theory of Architecture, Architectural Sociology	MM	1	Prof. Dr. Weresch

Department	Duration
Humanities and Social Sciences	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Architectural Theory:

The learning objective comprises understanding of the theory of architectural in its fundamental positions. The subject is, on the one hand, an educational subject and, on the other hand, a space for the conveyance of methods by which to critically analyse architecture and its theory. Building on the students' fundamental knowledge of the development of architecture in different epochs acquired during Bachelor's study, this course involves a more profound analysis of individual aspects. Methodological fundamentals comprise description, comparison, scientific analysis and historical-critical evaluation. Societal, political, architectural-theoretical, form-aesthetic and urban planning aspects from a variety of eras are incorporated in the evaluation in order to achieve a reflective perception of our complex built environment. Architectural theory is presented as an integral component of architectural development as it cannot be applied absolutely but, first and foremost, within temporal context. In the history of constructional ideas, architectural theory does not exist "alongside" buildings, but instead usually applies to a real-life historical, contemporary or future context.

Architectural Sociology:

Qualification objective: Ability to compile and evaluate meaningful societal knowledge in order to work on architecture-related situations. Development of an independent, social scientific approach to the built environment.
Competences: Scientific work in accordance with the multiplicity of the architectural discipline, with its artistic, engineering, societal and humanities-based aspects. Perception of space taught through empirical investigations. Ability to adopt a transdisciplinary perspective in drafting work.

Module content

Architectural Theory:

Varying teaching content enhanced by excursions and group guidance sessions. Some seminars react to and address current issues, while others relate to research projects (key concept: teaching rooted in research).

Architectural Sociology:

Architectural sociology is transdisciplinary by nature, as it researches the social functions of architecture, urban development and landscape zones (supported by excursions) and develops proposals to translate such functions into the art of building. Architectural sociology investigates the social functions of space on the basis of scientific methods, e.g. through empirical building and urban space studies on user requirements involving surveys and participatory observations. Topics include e.g.:

- changing work processes and analysis of administrative buildings
- changing cultural behaviours and analysis of museum buildings
- child development, child requirements and analysis of buildings for children
- changing leisure behaviours and analysis of leisure buildings

Recommended literature

Schäfers, Bernhard, all works on architectural sociology; Weresch, Katharina, Bibliografie zur Architektursoziologie mit ausgewählten Beiträgen, Peter Lang Verlag, Frankfurt 1993

Forms of teaching and study

Orientation for Further Study: Architectural Theory: 2.5 CPs, lectures / seminars (2 WHS)

Orientation for Further Study: Architectural Sociology: 2.5 CPs, lectures / seminars (2 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Examination duration (for written/oral examinations)

Presentation / assignments / extended essay / written examina-

tion	
Calculation of module grade	
Architectural Theory: Grades from presentation / assignments / extended essay / written examination (50%)	
Architectural Sociology: Grades from presentation / assignments / extended essay / written examination (50%)	
Supplementary information	
Required knowledge / precondition(s) for participation (in form and content)	
none	
Module application / admission requirements for further modules (mandatory or recommended)	
Recommended preparation for participation in further modules in the Architectural Theory and Architectural Sociology department	
Module frequency	
Annual	
Language of instruction	
German	
Last update: 20/03/2017	

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-105	Orientation for Further Study: Construction Economics and Building Law	MM	1	Prof. Johrendt

Department	Duration
Construction Economics and Building Law	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<p>Orientation for Further Study: Construction Economics:</p> <ul style="list-style-type: none"> Development of a deeper understanding of the framework conditions, tasks and qualification requirements in construction economics, construction management and project development Acquisition of skills to optimise processes in the project schedule <p>Orientation for Further Study: Building Law:</p> <ul style="list-style-type: none"> Further fundamentals of construction planning law and construction contract law Expansion and consolidation of students' understanding of building regulations Development of scopes of action and concepts by which to implement planning ideas
Module content
<p>Orientation for Further Study: Construction Economics:</p> <p>Selected focuses in the topic area of construction economics, such as:</p> <ul style="list-style-type: none"> The significance of construction economics and construction management in the planning, construction and use process Deeper analysis of aspects of construction economics and/or construction management and/or project development Services according to the Fee Structure for Architects and Engineers (HOAI) and the Engineers' and Architects' Associations and Chambers Fee Structure Commission (AHO) <p>Orientation for Further Study: Building Law:</p> <p>Assessment of existing understanding of building law, and filling of any knowledge gaps (e.g.):</p> <ul style="list-style-type: none"> Interpretation of Hamburg Building Regulations (HBauO), application procedure, derogation possibilities in building law, participants in proceedings Site-relevant land use designations including implications for clearances, construction requirements GTCs law, conflict resolution in case of faults, delays, acceptance and warranties
Recommended literature
Varying
Forms of teaching and study
Construction Economics: 2.5 CPs, lectures and seminars (2 WHS)
Building Law: 2.5 CPs, lectures and seminars (2 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Construction Economics and Building Law: Presentation / assignments / extended essay / written examination	
Calculation of module grade	
Construction Economics: Grades from presentation / assignments / extended essay / written examination 50%	
Building Law: Grades from presentation / assignments / extended essay / written examination 50%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Recommended preparation for participation in further modules in the Construction Economics and Building Law department

Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-201	Project MA 2	MM	2	Prof. Sill

Department	Duration
Projects	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
10 CPs (= 300 hour workload)	4 WHS (= 42 contact hours)	258 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Collaborative Project MA 2

Collaborative projects are completed with internal and/or external collaboration partners at the teaching level and with students from the Architecture study programme.

- Development of special, exceptional individual skills and preferences for selected topic areas in the drafting and planning process for further targeted individual professional specialisation and/or development of a scientific profile in the course of further Master's study.
- Concentration on selected aspects of creative and reflective work in complex contexts of the urban development context and location, task, conceptual idea, form, function and technology. Increasing security and competence in reciprocal and cumulative working steps for concept and drafting development and/or drafting, construction, materials and technology. Ability to work collaboratively on projects by working together with another member of teaching staff from a different study programme.
- Sharpened awareness of the interdependencies of architecture, city and society, as well as of art, technology, economy and ecology, in the specific project context.

Qualification objectives of theoretical projects:

- Ability to scientifically develop knowledge of and insight into architecture and urban space.

Competences of theoretical projects:

- Ability to develop scientific issues of architecture and urban space, represent the state of research on individual topic areas and define gaps in research.

Module content

- Methods, pathways and processes for collaboration in the drafting project, for cognitive and sensitive analysis of context, location and tasks as well as for concept development and drafting.
- Critical analysis of comparable architectural projects from Germany and abroad.
- Reflection on, and discussion and evaluation of, respective interim results in the context of society, art, technology, economy and ecology, and drafting results as a whole. Appropriate forms of display and presentation in sketches, drawings, CAD, models, language and writing.
- Collaborative, introductory lectures on the aforementioned teaching content, excursions to the project site and exemplary projects, supplementary seminars interspersed with exercises on individual aspects of the task.
- Independent theoretical and practical work on the concept and draft, managed through weekly individual and group guidance in the guiding process
- Presentation and discussion of all respective interim results on a minimum of two occasions in the semester, final presentation at the end of the semester Experts and guests critics are engaged as appropriate to participate in the interim presentations.

Content of theoretical projects:

- Varying teaching content corresponding to current issues in architecture and urban space.
- The projects also include exchanges with research projects, as part of teaching rooted in research.
- Topic areas involve the investigation of the social functions of space using scientific methods. This comprises, for example, usage studies to examine requirements of architecture and districts; reflections on movement patterns at given locations; analysis of the psychological dimensions of space; identification of architectonic symbol systems; reappraisal of participation models with, for example, building collectives or through Gender Studies.
- Within the meaning of teaching rooted in research, selected topics can be scientifically consolidated and researched further in the project. This can serve as preparation for a theoretical Master's thesis.
- Teaching is provided in seminars and individual advice sessions. Furthermore, empirical building and urban

<p>space studies are processed using social-scientific methods to examine user requirements and enhance perception of space.</p> <ul style="list-style-type: none"> The results of transdisciplinary teaching and research provides recommendations by which to transform the art of building
Recommended literature
Varying
Forms of teaching and study
Project MA 2 – Collaborative Project: 10 CPs, lectures / project (4 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Semester essay / presentation	
Calculation of module grade	
Grades from extended essay / presentation 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-202	Form and Design I	RE	2	Prof. Weinmiller

Department	Duration
Design and Drafting	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> • Conceptual, theory-based, complexity-oriented design and drafting abilities • Development of students' own drafting and design profile • Discursive training in reaction to current architectural and design topics and trends
Module content
Drafting and design training on the basis of so-called "studies" (exercise series) of virulent space and form phenomena as well as specific Master's speedwork competitions with guest critics
Recommended literature
Varying
Forms of teaching and study
Form and Design I: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars — compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-203	Urban Development and Landscape	RE	2	Prof. Sörensen Prof. Dott. Fusi

Department	Duration
Design and Drafting	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Urban Development:

Deepened understanding of the planned and constructed form of territory and the city, the form of their spaces and the built masses that define them, and the constituent and characterising features for every urban context. Deepened understanding of the form of the city a complex artefact which incorporates all technical, economic, social and cultural factors, synthesises the same and shapes them in a physical and spatial sense. Reflective urban development drafting on the basis of aesthetic and technical components of urban space.

Landscape design:

In this Master's module, landscape is considered in its complexity as an aesthetic, creative and constructional phenomenon, with this applied in students' drafting. The realities of natural space, such as topography, are compared with complex artefacts and territorial infrastructures. The module involves identifying and working out spacial units / connected structures: sketched depiction of characterising spatial elements relate both to consolidation and presentation of spaces which display a structural unit or similarities in the spatial structure.

Module content

Urban Development:

Study of urban morphology as a scientific discipline. Reflection on elements, structures and morphological types, urban locations and territorial realities. Critical evaluation of urban development drafting methods as well as urban morphological and architectural-typological drafting tools and processes.

Landscape design:

- Site analyses with various means of documentation (photography, video, cartography, topographical models, etc.)
- Conveyance and application of analytical methods with a variety of focuses
 - Urban and natural principles (topographical, historical, landscape traces)
 - Historical research and systematic comparison of the current situation (landscape change, cultural charges, overlays)
- Differentiation according to spatial use specifications (incl. traffic and development), conditions of public space in the context of social diversity and dynamics

Recommended literature

Varying

Forms of teaching and study

Urban Development: 2.5 CPs, lectures / seminars (2 WHS)

Landscape design: 2.5 CPs, lectures / seminars (2 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Examination duration (for written/oral examinations)

Presentation / assignments / extended essay / written examination

Calculation of module grade

Urban Development: Grades from presentation / assignments / extended essay / written examination 50%

Landscape design: Grades from presentation / assignments / extended essay / written examination 50%

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-204	Construction I	RE	2	Prof. Dr. Kritzmann

Department	Duration
Construction and Technology	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> Ability to apply integrative planning through collaborative teamwork with specialist planners in the development of students' own drafting projects. Development of the students' ability to conceive of and further develop a demanding draft of their own in execution planning while retaining and reinforcing the original design idea. Analysis of exemplary structures and recognition of the interrelations of construction, material, function and form. Analysis of the congruence of drafting and support structure drafting. Interconnection of neighbouring areas, such as urban development, construction history, building services, building physics, construction process, detail development.
Module content
Varying topics from the integrated disciplines of construction and support structure
Recommended literature
Varying
Forms of teaching and study
Construction I: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-205	Energy-Optimised and Sustainable Construction	RE	2	Prof. Braun Prof. Dr. Dietrich

Department	Duration
Construction and Technology	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Ability to apply integral planning through collaborative teamwork with specialist planners in the development of students' own drafting projects.

Module content

Energy-Optimised and Sustainable Construction:

Technology:

The area of building services comprises a very wide field of knowledge continuously subject to major changes in terms of its self-understanding and its interfaces to the professional sphere. Even in larger functional buildings, the technical requirements are becoming increasingly complex, requiring new forms of collaboration with specialist planners. Architects will remain responsible for the project as a whole and so, even without detailed technical knowledge, they must be in a position to scrutinise technological developments. Individual technical aspects of drafting work are treated separately on a project-specific basis and analysed in terms of the decisions required on the basis of comparative projects. Varying depending on the project, the content could include: Concepts for zero-energy and plus-energy houses, sustainably building refurbishment, solar architecture and energy-efficient energy supply

Alternatively: Physics:

Depending on the project selected, various contributions are processed from the field of building physics for the purposes of sustainable building. With input for around one-third of a semester, the focus is independent processing of the topic, and the discussion of the content in presentations. The course places particular value on the derivation of a personal view on the achieved optimisation of the premises. Varying depending on the project, the content could include: thermal comfort in summer and winter, passive air-conditioning, primary energy requirements to support the building, daylight planning, passive house, building simulation, concepts for sustainable building refurbishment.

Recommended literature

Varying

Forms of teaching and study

Energy-Optimised and Sustainable Construction: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Presentation / assignments / extended essay

Examination duration (for written/oral examinations)

Calculation of module grade

Grades from presentation / assignments / extended essay (100%)

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

None

Module application / admission requirements for further modules (mandatory or recommended)

Module frequency

Annual

Language of instruction

German

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-206	Architectural Theory, Architectural Sociology	MM	2	Prof. Dr. Weresch

Department	Duration
Humanities and Social Sciences	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Architectural Theory 1 / Architectural Theory 2:

The objective comprises a deepened understanding of the theory of architecture and differentiated conveyance of methods by which to critically analyse architecture and its theory. The module involves a more profound analysis of the central, theoretical positions of contemporary architecture on the basis of selected architects.

Architectural Sociology 1 / Architectural Sociology 2:

Qualification objectives are:

- Ability to research societal changes and re-conceive creative answers in architecture and urban development.
- To interpret the influences and conditions of society and to conceptualise architecture and urban spaces from the insight gained.
- To perceive social dimensions of the built environment from the perspective of its users.

Competences:

- Spatial innovation skills on the basis of scientific analysis of societal change processes.
- Ability to handle transdisciplinary issues in terms of space

Module content

Architectural Theory 1 / Architectural Theory 2:

Positions of contemporary architecture on current issues with selected examples from the practical and theoretical work of architects and critics.

Architectural Sociology 1 / Architectural Sociology 2:

The main topic of the semester concerns analyses of buildings with leisure functions in the context of changing leisure behaviour. This is supplemented by current architectural issues and building types. Within this framework, we conduct studies into the spatial perception of the built environment and social behaviour with regard to technical, economical and political preconditions.

Selection of options from the module of **Architectural Theory, Architectural Sociology**:

- Architectural Theory 1 + Architectural Theory 2
- Architectural Theory 1 / 2 + Architectural Sociology 1 / 2
- Architectural Sociology 1 + Architectural Sociology 2:

Recommended literature

Zibell, Barbara (all works); Hannemann, Christine (all works)

Forms of teaching and study

Architectural Theory: 2.5 CPs, lectures / seminars (2 WHS)

Architectural Sociology: 2.5 CPs, seminars (2 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Examination duration (for written/oral examinations)

Presentation / assignments / extended essay / written examination

Calculation of module grade

Architectural Theory: Grades from presentation / assignments / extended essay / written examination 50%

Architectural Sociology: Grades from presentation / assignments / extended essay / written examination 50%

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

Recommended preparation: Successful completion of the module Orientation for Further Study: Architectural Theory, Architectural Sociology
Module application / admission requirements for further modules (recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-207	Architectural Sociology I	RE	2	Prof. Dr. Weresch

Department	Duration
Humanities and Social Sciences	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<p>Qualification objectives are:</p> <ul style="list-style-type: none"> • Ability to research societal changes and re-conceive creative answers in architecture and urban development. • To interpret the influences and conditions of society and to conceptualise architecture and urban spaces from the insight gained. • To perceive social dimensions of the built environment from the perspective of its users. <p>Competences:</p> <ul style="list-style-type: none"> • Spatial innovation skills on the basis of scientific analysis of societal change processes. • Ability to handle transdisciplinary issues in terms of space. • Development of independent scientific research skills.
Module content
The main topic of the semester concerns analyses of buildings with leisure functions in the context of changing leisure behaviour. This is supplemented by current architectural issues and building types. Within this framework, we conduct studies into the spatial perception of the built environment and social behaviour with regard to technical, economical and political preconditions. The seminar topics are individually scientifically explored and the content processed in further detail within the meaning of teaching rooted in research.
Recommended literature
Gleichmann, Peter R. (all works) Zibell, Barbara (all works); Hannemann, Christine; (all works on architecture, some on town planning)
Forms of teaching and study
Architectural Sociology I: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Recommended preparation: Successful completion of the module Orientation for Further Study: Architectural Theory, Architectural Sociology
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-208	Construction Economics I	RE	2	Prof. Johrendt

Department	Duration
Construction Economics and Building Law	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> To acquire in-depth knowledge of the principles, possibilities and action processes in (varying) topic areas and specific areas of construction economics and/or construction management and/or project development Ability to successfully manage demanding construction projects
Module content
Varying teaching content based on the respective seminar topics with corresponding examinations, exercises and excursions, such as: <ul style="list-style-type: none"> Specific area of construction economics Specific area of project management Specific area of project development
Recommended literature
Varying
Forms of teaching and study
Construction Economics I: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Successful active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / extended essay / assignments / written examination	
Calculation of module grade	
Grades from presentation / extended essay / assignments / written examination 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-209	Construction Economics and Building Law I	RE	2	Prof. Johrendt

Department	Duration
Construction Economics and Building Law	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Construction Economics 1 / Construction Economics 2:

- To acquire in-depth knowledge of the principles, possibilities and action processes in varying topic areas and specific areas of construction economics and/or construction management and/or project development
- Ability to successfully manage demanding construction projects

Building Law 1 / Building Law 2:

- To acquire in-depth knowledge of selected, practical significant issues of private building law (e.g. contract law, GTCs...), planning law and building regulations
- Ability to manage construction projects in a legally sound manner and to guide the client in the procedure to obtain planning permission
- Management skills to identify and resolve potential conflicts between actors involved in the construction

Module content

Varying teaching content based on the respective seminar topics with corresponding examinations, exercises and excursions, such as:

- Specific area of construction economics
- Specific area of project management
- Specific area of project development
- Limits of planning discretion and discretion in the procedure to obtain planning permission.
- Exercises on the planning permission / land-use plan (German: Bebauungsplan) procedure on the basis of a specific case study.
- Discussion + further exploration of the issue of GTCs, coordination of contract drafting according to building site regulations (BauStellVO), guarantee bonds as security, effects of scheduling on risks to persons and property
- Depiction of participants' interests in the approval procedure
- Participants' tasks
- Case studies

Selection of options from the module of **Construction Economics and Building Law I:**

- Construction Economics 1 + Construction Economics 2
- Construction Economics 1 / 2 + Building Law 1 / 2
- Building Law 1 + Building Law 2

Recommended literature

Varying

Forms of teaching and study

Construction Economics: 2.5 CPs, lectures / seminars (2 WHS)

Building Law: 2.5 CPs, lectures / seminars (2 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Examination duration (for written/oral examinations)

Presentation / assignments / extended essay / written examination

Calculation of module grade

Construction Economics: Grades from presentation / assignments / extended essay / written examination 50%

Building Law: Grades from presentation / assignments / extended essay / written examination 50%

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German

Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-301	Project MA 3	MM	3	Prof. Sill

Department	Duration
Projects	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
10 CPs (= 300 hour workload)	4 WHS (= 42 contact hours)	258 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Inter-Programme Project MA 3:

Inter-programme projects completed with teaching staff and students (at HCU or on a national or international level) from a range of disciplines.

- Further development of special, exceptional individual skills and preferences as well as marked competence and personal responsibility in the topic area for professional specialisation and/or development of a scientific profile
- Acquisition of skills that enable concentrated, performance-based, creative and reflective work in the selected topic area, while respecting the complex interrelation of the urban development environment and location, task, conceptual idea, form, function and technology
- Ability to analyse and evaluate the interdependencies of architecture, city and society, as well as aspects of art, technology, economy and ecology, in the specific project context.
- Ability, following descriptive determination of the fundamental issues, to process these in complex form and structure in the interdisciplinary context of the module. This is defined by the collaboration with another member of teaching staff from a different discipline and the collaboration with students of this discipline

Qualification objectives of theoretical projects:

- Ability to scientifically develop knowledge of and insight into architecture and urban space

Competences of theoretical projects:

- Ability to develop scientific issues of architecture and urban space, represent the state of research on individual topic areas and define gaps in research

Module content

- Methods, pathways and processes for interdisciplinary incorporation in the drafting project, for cognitive and sensitive analysis of context, location and tasks as well as for concept development and drafting.
- Critical analysis of comparable architectural projects from Germany and abroad
- Reflection on, and discussion and evaluation of, respective interim results in the interdisciplinary context of society, art, technology, economy and ecology, and drafting results as a whole. Appropriate forms of display and presentation in sketches, drawings, CAD, models, language and writing
- Introductory lectures of an interdisciplinary structure with selected experts
- Independent and practical work on concept and drafting
- Intensive individual guidance and consultancy
- Introduction and discussion of the respective interim results in colloquia and seminars
- Final presentation at the end of the semester. Further experts and guests critics are engaged to participate in the interim presentations
- Representatives of the disciplines selected by the students participate in the final presentation

Content of theoretical projects:

- Varying teaching content corresponding to current issues in architecture and urban space
- The projects also include exchanges with research projects, as part of teaching rooted in research
- Topic areas involve the investigation of the social functions of space using scientific methods. This includes, for example: usage studies to examine requirements of architecture and districts; reflections on movement patterns at given locations; analysis of the psychological dimensions of space; identification of architectonic symbol systems; reappraisal of participation models with, for example, building collectives or through Gender Studies.
- Within the meaning of teaching rooted in research, selected topics can be scientifically consolidated and researched further in the project. This can serve as preparation for a theoretical Master's thesis.
- Teaching is provided in seminars and individual advice sessions
- Furthermore, empirical building and urban space studies are processed using social-scientific methods to examine user requirements and enhance perception of space

<ul style="list-style-type: none"> The results of transdisciplinary teaching and research provides recommendations by which to transform the art of building
Recommended literature
Varying
Forms of teaching and study
Project MA 3 – Inter-Programme Project: 10 CPs, lectures / project (4 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Semester essay / presentation	
Calculation of module grade	
Grades from extended essay / presentation 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-302	Form and Design II	RE	3	Prof. Weinmiller

Department	Duration
Design and Drafting	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> • Conceptual, theory-based, complexity-oriented design and drafting abilities • Students acquire the ability to see their own conceptual drafting strategies in an overall architectonic context • Development of students' own demanding drafting and design profile • Discursive training in reaction to current architectural and design topics and trends
Module content
Drafting and design training on the basis of so-called "studies" (exercise series) of virulent space and form phenomena as well as specific Master's speedwork competitions
Recommended literature
Varying
Forms of teaching and study
Form and Design II: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-304	Construction II	RE	3	Prof. Dr. Kritzmann

Department	Duration
Construction and Technology	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> Ability to apply integrative planning through collaborative teamwork with specialist planners in the development of students' own drafting projects. Development of the students' ability to conceive of and further develop a demanding draft of their own in execution planning while retaining and reinforcing the original design idea. Analysis of exemplary structures and recognition of the interrelations of construction, material, function and form. Analysis of the congruence of drafting and support structure drafting. Interconnection of neighbouring areas, such as urban development, construction history, building services, building physics, construction process, detail development.
Module content
Varying topics from the integrated disciplines of construction and support structure
Recommended literature
Varying
Forms of teaching and study
Construction II: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-305	Physics and Technology	RE	3	Prof. Braun Prof. Dr. Dietrich

Department	Duration
Construction and Technology	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Ability to apply integral planning through collaborative teamwork with specialist planners in the development of students' own drafting projects.

Module content

Various topics from the field of physics and technology are offered each semester.

Physics:

Depending on the project selected, various contributions are processed from the field of building physics for the purposes of sustainable building. With input for around one-third of a semester, the focus is independent processing of the topic, and the discussion of the content in presentations. The course places particular value on the derivation of a personal view on the achieved optimisation of the premises. Varying depending on the project, the content could include: thermal comfort in summer and winter, passive air-conditioning, primary energy requirements to support the building, daylight planning, passive house, building simulation, concepts for sustainable building refurbishment.

Technology:

This course addresses project-related topics from all areas of building services. It aims to develop the decision-making competence of the architect and promote discussion with the planners from specialist disciplines. The area of building services comprises a very wide field of knowledge continuously subject to major changes in terms of its self-understanding and its interfaces to the professional sphere. Even in larger functional buildings, the technical requirements are becoming increasingly complex, requiring new forms of collaboration with specialist planners. Architects will remain responsible for the project as a whole and so, even without detailed technical knowledge, they must be in a position to scrutinise technological developments. Individual technical aspects of drafting work are treated separately on a project-specific basis and analysed in terms of the decisions required on the basis of comparative projects.

Recommended literature

Varying

Forms of teaching and study

Physics and Technology: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Presentation / assignments / extended essay

Examination duration (for written/oral examinations)

Calculation of module grade

Physics and Technology: Grades from presentation / assignments / extended essay (100%)

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

Module application / admission requirements for further modules (mandatory or recommended)

Module frequency

Annual

Language of instruction

German

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-306	Architectural Theory	RE	3	Prof. Dr. Düwel

Department	Duration
Humanities and Social Sciences	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	2 WHS (= 21 contact hours)	129 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
The course objective is for students to acquire skills and competences to enable the most independent reflection possible with regard to the evaluation, classification and interpretation of historic and contemporary references in architecture and urban development.
Module content
The objective comprises a deepened understanding of the theory of architecture and differentiated conveyance of methods by which to critically analyse architecture and its theory. The module involves a more profound analysis of the central, theoretical positions of architecture on the basis of selected architects.
Recommended literature
Varying
Forms of teaching and study
Theory of Architecture: 5 CPs, seminars (2 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay / written examination	min. 30 minutes
Calculation of module grade	
Grades from presentation / assignments / extended essay / written examination (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-307	Architectural Sociology II	RE	3	Prof. Dr. Weresch

Department	Duration
Humanities and Social Sciences	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
Ability to scientifically develop knowledge of and insight into architecture and urban space. Competences: <ul style="list-style-type: none"> • Develop scientific issues regarding architecture and urban space • Present state of research on individual topic areas • Define gaps in research
Module content
<ul style="list-style-type: none"> • Varying teaching content corresponding to current issues in architecture and urban space. • The seminars also include exchanges with research projects, as part of teaching rooted in research. • Topic areas involve the investigation of the social functions of space using scientific methods. This comprises, for example, usage studies to examine requirements of architecture and districts; reflections on movement patterns at given locations; analysis of the psychological dimensions of space; identification of architectonic symbol systems; reappraisal of participation models with, for example, building collectives or through Gender Studies. • Within the meaning of teaching rooted in research, selected topics can be scientifically consolidated and re-researched further in seminars. This can serve as preparation for a theoretical Master's thesis. • Empirical building and urban space studies in user requirements and spatial perception. A survey or participatory observation may be conducted if required. • Architectural sociology is transdisciplinary by nature, as it researches the social functions of architecture, urban development and landscape zones and produces recommendations to translate such functions into the art of building.
Recommended literature
Elias, Norbert (2012): On the Process of Civilisation. Dublin (Dublin University Press); Weresch, Katharina, Farben in der Architektur in ihrem Bedeutungswandel als Anzeiger langfristiger gesellschaftlicher Transformationsprozesse, in: Kongreßbericht IAPS 8, Martin Krampen (Ed.), Hochschule der Künste, Berlin, 1984, p. 429 ff; Flade, Antje (all works)
Forms of teaching and study
Architectural Sociology II: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Regular, active participation (min. 80%) in seminars – compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / assignments / extended essay	
Calculation of module grade	
Grades from presentation / assignments / extended essay (100%)	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-308	Construction Economics II	RE	3	Prof. Johrendt

Department	Duration
Construction Economics and Building Law	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	3 WHS (= 31.5 contact hours)	118.5 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)
<ul style="list-style-type: none"> To acquire in-depth knowledge of the principles, possibilities and action processes in (varying) topic areas and specific areas of construction economics and/or construction management and/or project development Ability to successfully manage demanding construction projects
Module content
Varying teaching content based on the respective seminar topics with corresponding examinations, exercises and excursions, such as: <ul style="list-style-type: none"> Specific area of construction economics Specific area of project management Specific area of project development
Recommended literature
Varying
Forms of teaching and study
Construction Economics II: 5 CPs, seminars (3 WHS)

Examination(s)

Precondition(s) for examination	
Successful active participation (min. 80%) in seminars — compulsory attendance	
Examination type	Examination duration (for written/oral examinations)
Presentation / extended essay / assignments / written examination	
Calculation of module grade	
Grades from presentation / extended essay / assignments / written examination 100%	

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-309	Construction Economics and Building Law II	RE	3	Prof. Johrendt

Department	Duration
Construction Economics and Building Law	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Construction Economics 3 / Construction Economics 4:

- To acquire in-depth knowledge of the principles, possibilities and action processes in (varying) topic areas and specific areas of construction economics and/or construction management and/or project development
- Ability to successfully manage demanding construction projects

Building Law 3 / Building Law 4:

- To acquire in-depth knowledge of selected issues of practical relevance in the fields of private law (e.g. contract law, GTCs...), town planning law and building regulations
- To acquire competence for the legally sound management of demanding construction projects
- To acquire in-depth knowledge and competences to enable effective representation of the client in the approval procedure
- To identify the specific requirements in relation to the urban development drafting and building regulation approvals
- To learn and develop transparent and communicative processes

Module content

Varying teaching content based on the respective seminar topics with corresponding examinations, exercises and excursions, such as:

- Specific area of construction economics
- Specific area of project management
- Specific area of project development
- Work on problem areas of practical significance in the approval procedure: e.g. clearances, always with comparison between selected German federal states, neighbours' issues as a neuralgic point in the approval procedure
- Exercises on the planning permission / land-use plan procedure on the basis of a specific case study
- Further exploration of the issue of GTCs, coordination of contract drafting according to building site regulations (BauStellVO), guarantee bonds as security, legal effects of scheduling
- Details of building ventures, the roles of the client, various building ventures – the "normal" client, transparent procedure in relation to building and planning law, structure of the planning process

Selection of options from the module of **Construction Economics and Building Law II:**

- Construction Economics 3 + Construction Economics 4
- Construction Economics 3 / 4 + Building Law 3 / 4
- Building Law 3 + Building Law 4

Recommended literature

Varying

Forms of teaching and study

Construction Economics: 2.5 CPs, lectures / seminars (2 WHS)

Building Law: 2.5 CPs, lectures / seminars (2 WHS)

Examination(s)

Precondition(s) for examination

Regular, active participation (min. 80%) in seminars – compulsory attendance

Examination type

Examination duration (for written/oral examinations)

Presentation / assignments / extended essay / written examination

Calculation of module grade

Construction Economics: Grades from presentation / assignments / extended essay / written examination 50%

Building Law: Grades from presentation / assignments / extended essay / written examination 50%

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)
Module application / admission requirements for further modules (mandatory or recommended)
Module frequency
Annual
Language of instruction
German
Last update: 20/03/2017

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-401	Master's Thesis	MM	4	Prof. Sill Prof. Dr. Staffa

Department	Duration
Thesis	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
25 CPs (= 750 hour workload)		750 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

- Ability to produce an architecturally or scientifically oriented project from the field of architecture independently, creatively, analytically and reflectively, and to bring it to a valid and comprehensible conclusion
- To acquire competence and exceptional skills both in general and in the selected individual topics area as a pre-condition of a potential professional specialisation for leading positions and/or development of a scientific profile
- Ability to incorporate the interdisciplinary, cultural and urban contexts and collaborate with other corresponding disciplines as relevant for the respective topic

Module content

Identification and specification of a topic:

- Development and application of methods, pathways and procedures to process the topic
- Theoretical, conceptual and practical work on the project
- Critical analysis of comparable projects from Germany and abroad
- Responsible incorporation and consideration of relevant contexts
- Appropriate forms of depiction and presentation
- In addition to a drafting option, a theoretical assignment is also possible
- Independent work on the aforementioned contents with individual consultations
- Reflection on, and discussion and evaluation of, respective interim results in the consultations and/or in joint Master's thesis colloquia, engaging experts on the respective topic and specific context as required

Recommended literature

Varying

Forms of teaching and study

Master's Thesis: 25 CPs, project

Further information: See HCU homepage for information on the Master's thesis

Examination(s)

Precondition(s) for examination

Regular, active participation in the consultations and/or colloquia

Examination type

Thesis, presentation, colloquium

Submission form: 2 digital copies on suitable storage media

Examination duration (for written/oral examinations)

Turnaround time: 22 weeks

Calculation of module grade

Thesis grade 75%, Presentation grade 25%

The gradings from the first and second markers are both given equal weighting

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

Module application / admission requirements for further modules (mandatory or recommended)

Module frequency

Every semester

Language of instruction

German

Module number	Module name	Module type (MM/RE/OE)	Semesters of study (recommended)	Module organiser
ARC-M-Mod-402	Elective Modules	MM	4	Prof. Sill Prof. Dr. Staffa

Department	Duration
Optional Elective Module	1 semester

CPs (according to ECTS)	Weekly hours per semester (WHS)	Self-study
5 CPs (= 150 hour workload)	4 WHS (= 42 contact hours)	108 hours

Objectives and content

Module qualification objectives (targeted learning outcomes)

Optional Elective from the range of Architecture courses:

- To conduct in-depth scientific, disciplinary and interdisciplinary examination of topic areas and topics from the full course range of all disciplines within the Architecture degree programme
- To reinforce specialist skills and the ability to work on complex tasks in an integrated manner
- To reinforce students' ability to work scientifically on problems set, including public presentation of the results

Module content

Varying in-depth teaching content from the entire teaching range of the Architecture degree programme, tailored to the respective topics and focuses during the semester.

Recommended literature

Varying

Forms of teaching and study

Elective 1 (from Arch. courses): 2.5 CP, seminars / lectures (2 WHS)

Elective 2 (from Arch. courses): 2.5 CP, seminars / lectures (2 WHS)

Examination(s)

Precondition(s) for examination

Depends on course

Examination type

Examination duration (for written/oral examinations)

Depends on course

Calculation of module grade

Elective 1 (from Architecture courses): Grade from module examination method (50%)

Elective 2 (from Architecture courses): Grade from module examination method (50%)

Supplementary information

Required knowledge / precondition(s) for participation (in form and content)

Module application / admission requirements for further modules (mandatory or recommended)

Module frequency

Every semester

Language of instruction

German

Last update: 20/03/2017