

Prüfungsordnung
des konsekutiven Master-Studiengangs

Advanced Architecture - From Urban Design to Building Construction

Master of Science (M.Sc.)

Fachbereich 1: Architektur · Bauingenieurwesen · Geomatik –
Architecture · Civil Engineering · Geomatics

**Prüfungsordnung des Fachbereichs 1: Architektur • Bauingenieurwesen • Geomatik
– Architecture • Civil Engineering • Geomatics der Frankfurt University of Applied
Sciences für den konsekutiven Master-Studiengang „Advanced Architecture - From
Urban Design to Building Construction“ (ab dieser Stelle nur „Advanced
Architecture“ benannt) vom 11. Januar 2017**

Aufgrund des § 44 Abs. 1 Nr. 1 des Hessischen Hochschulgesetzes (HHG) in der Fassung vom 14. Dezember 2009 hat der Fachbereichsrat des Fachbereichs 1: Architektur • Bauingenieurwesen • Geomatik – Architecture • Civil Engineering • Geomatics der Frankfurt University of Applied Sciences am 11. Januar 2017, die nachstehende Prüfungsordnung für den Studiengang „Advanced Architecture“ beschlossen. Die Prüfungsordnung entspricht den Allgemeinen Bestimmungen für Prüfungsordnungen mit den Abschlüssen Bachelor und Master an der Frankfurt University of Applied Sciences (AB Bachelor/Master) vom 10. November 2004 (Staatsanzeiger für das Land Hessen 2005 S. 519), geändert am 11. Februar 2009 (Hochschulanzeiger Nr. 13/26.08.2009) zuletzt geändert am 12. November 2014 (veröffentlicht am 19.02.2015 auf der Internetseite in den Amtlichen Mitteilungen der FRA-UAS) und ergänzt sie.

Die Prüfungsordnung wurde durch das Präsidium am 19. Dezember 2017 gemäß § 37 Abs. 5 HHG genehmigt.

Die Genehmigung ist befristet für die Dauer der Akkreditierung bis zum 31. März 2019

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§ 1

Akademischer Grad

- (1) Aufgrund der bestandenen Master-Prüfung verleiht die Frankfurt University of Applied Sciences den akademischen Grad eines Master of Science (M.Sc.).

§ 2

Zulassungsvoraussetzungen / Immatrikulationsvoraussetzungen

- (1) Voraussetzung für die Zulassung zum Studium ist ein berufsqualifizierender Hochschulabschluss (Diplom oder Bachelor mit mindestens 180 ECTS-Punkten, mindestens Grad C) oder ein mindestens gleichwertiger Abschluss einer ausländischen Hochschule der Fachrichtung Architektur. Die Note dieses Abschlusses muss mindestens 2,3 betragen.

Darüber hinaus können in Ausnahmefällen Bewerberinnen und Bewerber mit einer Gesamtnote des erforderlichen berufsqualifizierenden Abschlusses von mindestens 2,7 zugelassen werden. Erforderliche Voraussetzung hierfür ist eine nachweisliche qualifizierte berufliche Praxis in architektur-relevanten Bereichen wie z.B. in einem Architekturbüro von mindestens 4 Monaten nach dem oben beschriebenen Hochschulabschluss. Der Nachweis dieser qualifizierten beruflichen Praxis ist an Hand von in einer Broschüre zusammengefassten Arbeitsproben bzw. Portfolio (Pläne, Zeichnungen, Modellfotos, Beschreibungen) zu führen. Ergänzend ist ein persönliches Motivationsschreiben beizufügen, das Aufschluss gibt über die Motivation für den gewählten Studiengang. Der Nachweis von Englisch-Kenntnissen ist zu erbringen: Nicht-muttersprachliche Englisch-sprechende Studierende haben Ihre Englisch-Sprachkenntnisse auf dem Niveau TOEFL 213 oder IELTS 6 oder Cambridge First Certificate (A) oder mittels äquivalentem Testverfahren zu erbringen. Wenn der Bachelor-Grad (oder vergleichbaren Abschluss) an einer Hochschule erworben wurde, in der die Hauptsprache in der Lehre Englisch war sind vorher genannte Nachweise nicht zu erbringen.

- (2) Auf der Grundlage dieser Unterlagen wird die Auswahl dieser Bewerberinnen und Bewerber von einem vom Prüfungsausschuss des Master-Studiengangs Advanced Architecture gewählten Auswahlgremium getroffen. Diesem Auswahlgremium gehören zwei hauptamtlich im Studiengang Architektur Lehrende an. Für die Bewerbung einschließlich aller aussagekräftigen Unterlagen gelten die üblichen Bewerbungsfristen für den Master-Studiengang Advanced Architecture.

§ 3

Regelstudienzeit

- (1) Die Regelstudienzeit des Master-Studiengangs Advanced Architecture umfasst 4 Semester. Das Studium umfasst 120 ECTS-Punkte (Credits). Ein ECTS-Punkt entspricht einer Workload von 30 Stunden.

§ 4

Module

- (1) Der Studiengang umfasst 14 Module. Die Inhalte der Module sowie die durch sie zu erwerbenden ECTS-Punkte ergeben sich aus den Modulbeschreibungen in Anlage 1.

- (2) Neben 10 Pflichtmodulen sind aus einem Angebot von 9 Wahlpflichtmodulen 4 Wahlpflichtmodule zu absolvieren. Nach Ablauf des Rücknahmezeitraumes für die Anmeldung zur Modulprüfung ist die Wahl eines Wahlpflichtmoduls verbindlich.
- (3) Ebenso kann ein Wahlpflichtmodul aus den anderen bau- und planungsbezogenen Master-Studiengängen der Frankfurt University of Applied Sciences wie Urban Agglomerations, Barrierefreie Systeme, Zukunftssicheres Bauen nach Feststellung der Gleichwertigkeit durch den Prüfungsausschuss gewählt werden.
- (4) Aus dem Master-Studiengang "Architektur" können die Studierenden des englischsprachigen Master-Studiengangs "Advanced Architecture" alle Entwurfs- und Wahlpflichtfächer bis zu einer maximalen Anzahl von 30 ECTS wählen und belegen.

§ 5

Prüfungsleistungen

- (1) Art, Anzahl, Anforderungen sowie Prüfungsvorleistungen der jeweiligen Modulprüfungsleistungen ergeben sich aus den Modulbeschreibungen in der Anlage 1.
- (2) Die Dauer von Klausurarbeiten beträgt 1,5 bis 3 Zeitstunden, die Dauer von mündlichen Prüfungen mindestens 15 und maximal 40 Minuten.

§ 6

Wiederholbarkeit von Prüfungsleistungen

- (1) Nicht bestandene Modulprüfungen können zweimal wiederholt werden. Die Modulprüfungsleistung Master-Thesis mit Kolloquium kann nur einmal wiederholt werden.

§ 7

Master-Thesis mit Kolloquium

- (1) Die Master-Thesis ist eine Einzelarbeit, bei der die oder der Studierende innerhalb einer vorgegebenen Frist eine Aufgabenstellung aus der Architektur selbständig, fachwissenschaftlich und vertieft bearbeiten kann. Der Bearbeitungsumfang beträgt 30 ECTS-Punkte, die Bearbeitungsdauer 18 Wochen.
- (2) Die Master-Thesis wird von zwei Prüferinnen oder Prüfern bewertet. Darunter soll die Betreuerin oder der Betreuer der Master-Thesis sein. Das Bewertungsverfahren soll spätestens vier Wochen nach Abgabe der Master-Thesis abgeschlossen sein.
- (3) Im Krankheitsfall oder einem anderen von der oder dem Studierenden nicht zu vertretenden Umstand entsprechend §15 Abs. 2 und §23 der AB Bachelor / Master kann die Bearbeitungszeit der Master-Thesis einmal um maximal 3 Wochen verlängert werden.
- (4) Die Master-Thesis ist Gegenstand des Abschluss-Kolloquiums, das in der Regel öffentlich ist, es sei denn, die zu Prüfenden haben bei der Meldung zur Prüfung widersprochen (§11 Abs. 6 AB Bachelor / Master). Die Öffentlichkeit erstreckt sich nicht auf die Beratung und die Bekanntgabe des Prüfungsergebnisses an die Kandidatin oder den Kandidaten. Es wird als Kollegialprüfung von Betreuerin oder Betreuer und Korreferentin und Korreferent durchgeführt und findet innerhalb von 4 Wochen nach dem Abgabezeitpunkt der Master-Thesis statt. Das Ergebnis

des Kolloquiums geht mit einem Gewicht von 25 % in die Bewertung des Moduls ein. Die Dauer des Kolloquiums beträgt mindestens 20, maximal 40 Minuten.

- (5) Wenn die Beurteilungen von Referentin oder Referent und Korreferentin oder Korreferent um mehr als 2,0 voneinander abweichen oder wenn eine oder einer der beiden die Master-Thesis als „nicht ausreichend“ beurteilt, holt der Prüfungsausschuss die Stellungnahme eines oder einer dritten Lehrenden ein. Die Note wird in diesem Fall aus dem arithmetischen Mittel der Einzelbewertungen gebildet gemäß § 14 Abs. 7 der AB Bachelor / Master.
- (6) Die Master-Thesis kann auf Antrag der Studierenden oder des Studierenden an den Prüfungsausschuss auch in einer anderen Sprache als Deutsch verfasst werden. Der Prüfungsausschuss entscheidet hierüber im Einvernehmen mit den Prüferinnen oder Prüfern.

§ 8

Bildung der Gesamtnote

- (1) Die Gesamtnote der Master-Prüfung errechnet sich aus der Summe der Produkte aus Note eines Moduls und dessen Gewichtung dividiert durch die Summe der Gewichtungen. Die Gewichtung, mit der eine Note in die Gesamtnote eingeht, ergibt sich aus der nachfolgenden Anlage 1 Modulübersicht.
- (2) Für die Gesamtnote der Masterprüfung wird zusätzlich ein ECTS-Rang vergeben.

§ 9

Zeugnis, Urkunde und Diploma Supplement

- (1) Das Zeugnis über die bestandene Master-Prüfung enthält die Modulnoten, das Thema der Master-Thesis, deren Note und die Gesamtnote und die Anzahl der erworbenen ECTS-Punkte (Credits). Auf Antrag der oder des Studierenden wird gegebenenfalls das Ergebnis der Prüfungen in Zusatzmodulen aufgenommen.
- (2) Ein Diploma Supplement wird entsprechend der Anlage 2 ausgestellt.

§ 10

Inkrafttreten


Diese Prüfungsordnung tritt am 1. Oktober 2017 zum Wintersemester 2017/2018 in Kraft und wird auf einem zentralen Verzeichnis auf der Internetseite (in den amtlichen Mitteilungen) der Frankfurt University of Applied Sciences veröffentlicht.

Frankfurt am Main, _____

Prof. Dipl.-Ing. Karen Ehlers
Dekanin des Fachbereichs 1:
Fachbereich 1: Architektur • Bauingenieurwesen • Geomatik –
Architecture • Civil Engineering • Geomatics
Frankfurt University of Applied Sciences

Strukturmodell: Advanced Architecture (M.Sc.)

Anlage 1 zur Prüfungsordnung

| Advanced Architecture (M.Sc.) | | | | |  FRANKFURT UNIVERSITY OF APPLIED SCIENCES | |
|--------------------------------------|--|---|--|---|---|-------------------------------|
| Module Overview | | | | | Stand: 11.01.2017 | ECTS Credit Points (cp) |
| Semester 4 | Master-Thesis with colloquium 30 cp | | | | 30 | |
| Semester 3 | Specialisation Project 10 cp | Existing Contexts - Design and Construction 10 cp | WPM 5 cp | WPM 5 cp | 30 | |
| Semester 2 | Lecture Series Construction 5 cp | International Design Project 5 cp | New Buildings - Design and Construction 10 cp | WPM 5 cp | WPM 5 cp | 30 |
| Semester 1 | Lecture Series Design 5 cp | Impromptu Designs 5 cp | Urban Contexts - Design and Construction 10 cp | International Design and Building Project 10 cp | | 30 |

Modulübersicht Advanced Architecture (M.Sc.)

- Anlage 2 zur Prüfungsordnung –

(Modules – ECTS – Weighting – Duration – Type of examination – Language of Module)

| Nr. | Title of Modules | Cp ECTS | Weighting | Duration [Sem.] | Type of examination | Language |
|--------|--|---------|-----------|-----------------|---|----------|
| LD | Lecture Series Design | 5 | 5 | 1 | Written examination in form of a test | English |
| ID | Impromptu Designs | 5 | 5 | 1 | Written examination in form of a term paper | English |
| UDC | Urban Contexts - Design and Construction | 10 | 10 | 1 | Project work with oral presentation | English |
| IDBP | International Design and Building Project | 10 | 10 | 1 | Project work with oral presentation | English |
| LC | Lecture Series Construction | 5 | 5 | 1 | Written examination in form of a test | English |
| IDP | International Design Project | 5 | 5 | 1 | Project work with oral presentation | English |
| NDC | New Buildings - Design and Construction | 10 | 10 | 1 | Project work with oral presentation | English |
| SP | Specialisation Project | 10 | 10 | 1 | Project work with oral presentation | English |
| EDC | Existing Contexts- Design and Construction | 10 | 10 | 1 | Project work with oral presentation | English |
| T | Master-Thesis with colloquium | 30 | 60 | 1 | Master-Thesis with colloquium | English |
| | Optional Modules | | | | | |
| WPM 7 | Utopias und Visions | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 8 | Rehabilitate, Reuse, Add-on | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 9 | Urban Development and District Planning | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 10 | Urban Renewal and Redevelopment | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 11 | DigitalAnalog | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 12 | Experimental Design | 5 | 5 | 1 | Written examination in form of a term paper | English |

| Nr. | Title of Modules | Cp ECTS | Weight ing | Duratio n [Sem.] | Type of examination | Language |
|------------|-------------------------|--------------------|-----------------------|---------------------------------|--|-----------------|
| WPM 14 | Structural Design | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 17 | Material Design | 5 | 5 | 1 | Written examination in form of a term paper | English |
| WPM 18 | Climate Design | 5 | 5 | 1 | Written examination in form of a term paper | English |

Modulbeschreibung Advanced Architecture (M. Sc.)
 - Anlage 3 zur Prüfungsordnung –
 Module description Advanced Architecture (M.Sc.)

| | |
|---|--|
| Module title | Lecture Series Design |
| Module number | LD |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: First semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written exam in the form of a test, duration 2 hours |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> • professional skills (optionally classified according to the relevant qualification framework) • Key skills | The students can distinguish the different approaches to achieving an architectural design approach which can respond convincingly to today's requests as manifold they are. Starting from historical foundations such as "architecture without architects" in different climate zones, students can evaluate critically centuries-old approaches to spatial design and in particular those which are connected with the European 20th century and are still recognized today. This includes the knowledge of concepts like general principles for spatial planning, composition principles, spatial exploration principles and material concepts. Particularly in connection with the topic of materials, the students can distinguish the effects of the selection of materials on the construction and shape of the atmospheric qualities of spaces, as well as on the technical aspects of construction. |
| Contents of the module (Unit titles) | Lecture series Design: Lecture series on spatial design |
| Teaching methods of the module | Lecture |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Impromptu Designs |
| Module number | ID |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study program s | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable. recommended: First semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 12 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | Students can conceptually solve an architectural problem impromptu. These problems derive from the three main program areas, which are urban contexts, existing contexts, and new buildings. The maximum time given for the single impromptu design is two weeks. The student is able, in this short time at disposition, to name and elaborate the design criteria adequate to the task given, develop a concept, in scales ranging from 1:2000 to 1:1, and present this appropriately in plans and / or models, to laymen and experts. |
| Contents of the module (Unit titles) | Impromptu Designs: Solving an architectural-relevant task in the form of an Impromptu Design |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Urban Contexts - Design and Construction |
| Module number | UDC |
| Study program | Master of Science Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.), Urban Agglomerations (M.Sc.), Umweltmanagement und Stadtplanung im Ballungsraum (M.Eng.) |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: First semester |
| Credit points (Cp) of the module | 10 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min. 10 minutes, max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>Students can develop, elaborate and materialize a concept for a design topic of high complexity in the urban context. They are able to independently research and elaborate the essential aspects of urban history and development, urban and architectural typologies, functional structuring, open space development, material and technical developments, as well as analyzing and methodically evaluating their design concepts while framing them in relation to contemporary urban context related issues and developments.</p> <p>Furthermore they are able to develop their design work from design up to all relevant urban, architectural and technical questions by including the necessary expertise and present their design in different ways – appropriate to the stage of project development – in front of professionals and laypersons.</p> |
| Contents of the module (Unit titles) | Urban Contexts – Design and Construction: Urban Design and Implementation |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 300 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | International Design and Building Project |
| Module number | IDBP |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: First semester |
| Credit points (Cp) of the module | 10 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min 10 minutes, max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | Students can develop and elaborate strategies and concepts for an international theme of high complexity in the fields of urban development, construction in existing buildings and new buildings. This can occur in co-operations, together with students and professors from other disciplines and international universities. These co-operation partners bring diverse expertise and different approaches to the international co-operations. In this work environment, the students can research and analyze the thematic aspects that are essential in the respective semester. On this basis, they can develop strategies and concepts and methodically evaluate them in comparison with the currently relevant developments in the respective thematic area. Students can do this independently, either in international student groups both in distant classrooms via digital teaching and studying tools, or in the frame of a joint international workshop with the respective partner universities. The students can present their seminar works in these contexts to national and international experts as well as laymen in an appropriate way and further elaborate them with their support. |
| Contents of the module (Unit titles) | International Design and Building Project |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 300 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Lecture Series Construction |
| Module number | LC |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written exam in the form of a test, duration 2 hours |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | The students can distinguish the diverse criteria, which determine the transfer of a design approach into an adequate design form. They can evaluate critically these criteria and are able to transfer these on this basis into the current discussion. For this purpose students will be able to discuss and analyze central topics which have significantly influenced the discussion of architecture and its construction in the 19th and 20th centuries. These are, in particular, the following: perception and structural rationalism, craftsmanship, and ornament and construction. Students will learn to differentiate between concepts of material efficiency; structure equals architecture, transparency, monolithic construction, and standardization. Finally, the students can understand and reflect the manifold relationships between the design ideals and the reality/realities of construction into which these ideas have been translated and are still being translated. |
| Contents of the module (Unit titles) | Lecture series Construction: Lecture series on construction design |
| Teaching methods of the module | Lecture |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | International Design Project |
| Module number | IDP |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min 10 minutes, max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>Students are able to develop and elaborate strategies and concepts on a compulsory subject matter of high complexity in an interdisciplinary cooperation of study fields, together in possible cooperations with students and professors from other disciplines and international universities. These co-operation partners bring diverse expertise and different approaches to the international co-operations.</p> <p>The students in this working environment are able to research and analyze the thematic aspects that are essential in the respective semester. On this basis, they can develop strategies and concepts and are able to do a methodically correct evaluation, which puts these topics in comparison with the currently relevant developments in the respective subject field. The students can implement these strategies and concepts independently, and act in international student groups. The implementation is either done in the virtual space or in the frame of a joint international workshop with the respective partner universities. The students can present their seminar works in these contexts to national and international experts as well as laymen in an appropriate way and develop them further together with them.</p> |
| Contents of the module (Unit titles) | International Design Project |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | New Buildings- Design and Construction |
| Module number | NDC |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 10 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min. 10 minutes, max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>Students can develop and elaborate a concept for a design topic of high complexity in the area of new buildings. They can independently research the essential aspects, analyze and methodically evaluate their design concepts while framing their work in relation to spatial-atmospheric, architectural, building-type relevant, material and technical developments.</p> <p>Furthermore they are able to develop their design work from design up to all relevant architectural and technical-constructive questions by including the necessary expertise and present their design in different ways - appropriate to the stage of project development - in front of professionals and laypersons.</p> |
| Contents of the module (Unit titles) | New Buildings – Design and Construction: Architectural concepts and their materialization |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 300 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Specialisation Project |
| Module number | SP |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Third semester |
| Credit points (Cp) of the module | 10 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | Lecture Series Construction and Lecture Series Design |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min. 10 minutes and max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The student can independently formulate, investigate, elaborate, and present a topic of relevance for the fields of working in urban contexts, in existing contexts and on new buildings. These topics, which have to present very high planning requirements, can be investigated with a predominantly theoretical approach or elaborated in form of a concrete implementation project.</p> <p>The theoretical research puts the student into the position to do scientific research, which here comprises creative work undertaken on a systematic basis in order to increase the stock of knowledge, here knowledge of architecture, culture and society, and the use of this stock of knowledge to devise new applications.</p> <p>Whereas the elaboration of an implementation project puts the student into the position to carry out a plan, a method, or a design, idea, model, or specification up to the scale of a one to one detail.</p> <p>Students will finally be able to present, discuss and further develop their work in the context of a high level of expertise.</p> |
| Contents of the module (Unit titles) | Specialisation Project |
| Teaching methods of the module | Seminar |
| Total workload | 300 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | Existing Contexts - Design and Construction |
| Module number | EDC |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Freely selectable, recommended: Third semester |
| Credit points (Cp) of the module | 10 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Project work with oral presentation, Processing time: 12 weeks, Duration of presentation min. 10 minutes, max. 20 minutes |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>Students can develop and elaborate a concept for a design topic of high complexity in the area of existing buildings. They can independently research the essential aspects from building history to cultural aspects, analyze and methodically evaluate their design concepts while framing their work in relation to building-type relevant, material and technical developments as well as actual concepts such as Reduce, Reuse, Re-Cycling.</p> <p>Furthermore they are able to develop their design work from design up to all relevant architectural and technical-constructive questions by including the necessary expertise and present their design in different ways - appropriate to the stage of project development - in front of professionals and laypersons.</p> |
| Contents of the module (Unit titles) | Existing Structures - Design and Construction: Re-Design and Conversion |
| Teaching methods of the module | Seminar, Practice |
| Total workload | 300 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | Master-Thesis with colloquium |
| Module number | T |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | None |
| Duration of the module | 1 semester |
| Status of the module | Compulsory module |
| Recommended semester during the Study program | Fourth semester |
| Credit points (Cp) of the module | 30 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | All Compulsory Modules and 4 Optional Modules. |
| Module examination | Master-Thesis with colloquium. Processing time is 18 weeks; the duration of the colloquium is at least 20 minutes and at most 40 minutes. |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students are able to work independently according to specific scientific methods in architecture within a fixed time frame on a task for a design of highest complexity, taking into account the special focus of the study program "Advanced Architecture - From Urban Design to Building Construction".</p> <p>The student can recognize and evaluate the possibilities and limits of the assignment outlined. The student can research open questions, develop a concept and develop the draft on this basis into a coherent assignment, which will then be the assignment of the student's master thesis.</p> <p>The students can develop a convincing solution for their conceptual formulation in its complex variety. They are able to reflect the context of their work within the framework of comparable questions as well as to incorporate knowledge from other related disciplines (such as statics or building physics). The students are also able to develop alternative approaches for the main questions of their concepts as well as to identify the respective potentials of their concepts. The students are able to present the results of their work visually, both two and three-dimensionally, as well as orally.</p> |
| Contents of the module (Unit titles) | Master-Thesis |
| Teaching methods of the module | Seminar and Self-Study |
| Total workload | 900 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | Utopias and Visions |
| Module number | WPM 7 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Visions and Utopias</i>. Students are enabled through the practical application of the gained knowledge to evaluate topics in the field of architectural theory and to further develop them on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Utopias and Visions |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Rehabilitate, Reuse, Add-on |
| Module number | WPM 8 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Rehabilitate, Reuse, Add-on</i>. Students are enabled through the practical application of the gained knowledge to develop in the field of the rehabilitation of architecture and city, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Rehabilitate, Reuse, Add-on |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Urban Development and District Planning |
| Module number | WPM 9 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.), Umweltmanagement und Stadtplanung in Ballungsräumen (M.Eng) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Urban Development and District Planning</i>. Students are enabled through the practical application of the gained knowledge to develop urban and district contexts, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Urban Development and District Planning |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | Urban Renewal and Redevelopment |
| Module number | WPM 10 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.), Umweltmanagement und Stadtplanung in Ballungsräumen (M.Eng) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Urban Renewal and Redevelopment</i>. Students are enabled through the practical application of the gained knowledge to support and initiate the urban renewal and redevelopment, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Urban Renewal and Redevelopment |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | DigitalAnalog |
| Module number | WPM 11 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Digital-Analog</i>. Students are enabled through the practical application of the gained knowledge to understand visual communications in the field of architecture, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | DigitalAnalog |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|---|
| Module title | Experimental Design |
| Module number | WPM 12 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of Experimental Design. Students are enabled through the practical application of the gained knowledge to develop architectural designs in experimental formats, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Experimental Design |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Structural Design |
| Module number | WPM 14 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.); Master of Engineering in the field of Civil Engineering (M.Eng)/(M.Sc.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Structural Design</i>. Students are enabled through the practical application of the gained knowledge to develop structural designs in several formats, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Structural Design |
| Teaching methods of the module | Seminar |
| Total workload | 150h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Material Design |
| Module number | WPM 17 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.); Master of Engineering/Master of Science in the field of Civil Engineering (M.Eng)/(M.Sc.) |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> · professional skills (optionally classified according to the relevant qualification framework) · Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Material Design</i>. Students are enabled through the practical application of the gained knowledge to develop architectural designs in several formats with new and unknown materials, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Material Design |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

| | |
|---|--|
| Module title | Climate Design |
| Module number | WPM 18 |
| Study program | Advanced Architecture (M.Sc.) |
| Applicability of the module to other Study programs | Architektur (M.A.); |
| Duration of the module | 1 semester |
| Status of the module | Optional Module |
| Recommended semester during the Study program | Freely selectable, recommended: Second semester |
| Credit points (Cp) of the module | 5 |
| Prerequisites for module participation | None |
| Prerequisites for module examination | None |
| Module examination | Written examination in form of a term paper, Processing time: 6 weeks |
| Intended learning outcomes /acquired competences of the module Distinguished between: <ul style="list-style-type: none"> • professional skills (optionally classified according to the relevant qualification framework) • Key skills | <p>The students acquire detailed knowledge in the thematic field of <i>Climate Design</i>. Students are enabled through the practical application of the gained knowledge to develop architectural designs in several formats adequate to climatic contexts, to evaluate them and to make comprehensive decisions on the grounds of the specific contexts and conditions.</p> <p>Furthermore, the students acquire abilities to exchange problems and solutions with expert representatives and outsiders on a technically advanced level, as well as to identify specific requirements of each work case and to communicate the motivations for their concepts and designs developed for this purpose in a clear and comprehensible form.</p> |
| Contents of the module (Unit titles) | Climate Design |
| Teaching methods of the module | Seminar |
| Total workload | 150 h |
| Language of the module | English |
| Frequency of the module | Once a year |

DIPLOMA SUPPLEMENT

- Anlage 4 zur Prüfungsordnung –

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

HOLDER OF THE QUALIFICATION

1.1 Family Name / 1.2 First Name

Mustermann, Musti

1.3 Date, Place, Country of Birth

01. September 1980, Musterhausen, Musterland

1.4 Student ID Number or Code

1234567890

2. QUALIFICATION

2.1 Name of Qualification / Title conferred

Master of Science (M.Sc.)

2.2 Main Field(s) of Study

Architectural Design and Construcional Design, studied for urban contexts, exisiting structures and new buildings, and in the frame of international cooperations, architecture theory, rehabilitation, urban development and urban renewal, experimental design, structural design, material design, and design for a climate adaquate architecture

2.3 Institution Awarding the Qualification (in original language)

Frankfurt University of Applied Sciences
Department of Architecture • Civil Engineering• Geomatics

Status (Type / Control)

University of Applied Sciences / State Institution

2.4 Institution Administering Studies (in original language)

(same)

Status (Type / Control)

(same)

2.5 Language(s) of Instruction / Examination

German

3. LEVEL OF QUALIFICATION

3.1 Level

Second degree (2 years), including thesis

3.2 Official Length of Programme

2 years, 120 ECTS

3.3 Access Requirements

First degree in Architecture (180 ECTS), Grade "2,3" (cf. Sec. 8.6)

4. CONTENTS AND RESULTS GAINED

4.1 Mode of study

Full-time

4.2 Programme Requirements / Qualification Profile of the Graduate

The Master study course in architecture qualifies bachelors of architecture (Bachelor of Arts, B.A.) with an applicable education for the detailed and high qualified tasks in the occupational field of architecture and design and leads to a Master of Science (M.Sc.).

They will be able to operate independently in the fields of design and planning, construction, submission and awarding, as well as constructional management. The educational emphasis in the Masters Study Course is set on applied architecture, meaning the constructional – technical sector as well as constructional management. This field is the foundation of the Masters Course. Applied design and project work form the centre of the course of studies, accompanied by a great number of optional modules to offer the students an optional choice of individual educational emphasis within the architectural design.

By the end of the course the graduates acquire the theoretical eligibility to register in the architectural association. A successful completion of the Masters Study Course qualifies for the higher grade of civil services and the second state exam.

This Master Study Course fulfils the professional accreditation preconditions according to Unesco /UIA.

4.3 Programme Details

See "Transcript of records" for list of courses and grades, and "Prüfungszeugnis" (Final Examination Certificate) for subjects offered in final examinations (written and oral), and topic of thesis, including evaluations.

4.4 Grading Scheme

General grading scheme cf. Sec. 8.6

4.5 Overall Classification (in original language)

Based on the accumulation of grades received during the Study program and the final thesis.

cf. Prüfungszeugnis (Final Examination Certificate)

5. FUNCTION OF THE QUALIFICATION

5.1 Access to Further Study

Postgraduation-programmes and PhD-programmes

5.2 Professional Status

The degree qualifies the holder to work in the classical occupational fields of architecture, its design and its construction, and of urban planing and urban renewal as well as in the field of rehabilitating existing structures.

6. ADDITIONAL INFORMATION

6.1 Additional Information

6.2 Further Information Sources

On the institution: www.frankfurt-university.de

Hessisches Ministerium für Wissenschaft und Kunst (State Ministry),
www.hmwk.hessen.de, Rheinstraße 23-25, D-65185 Wiesbaden

For national information sources cf. Sect. 8.8

7. CERTIFICATION

This Diploma Supplement refers to the following original documents:

- Urkunde über die Verleihung des Bachelor/Master-Grades vom „Date“
- Prüfungszeugnis vom „Date“
- Transcript of Records of „Date“

(Official Stamp/ seal)

Certification Date:

Chairman Examination Committee

8. NATIONAL HIGHER EDUCATION SYSTEM

The information on the national higher education system on the following pages provides a context for the qualification and the type of higher education.

8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM¹

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI)².

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.
- *Fachhochschulen* (Universities of Applied Sciences) concentrate their Study program s in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies a distinct application-oriented focus and professional character of studies, which include integrated and supervised work assignments in industry, enterprises or other relevant institutions.
- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to *Diplom- or Magister Artium* degrees or completed by a *Staatsprüfung* (State Examination).

Within the framework of the Bologna-Process one-tier Study programmes are successively being replaced by a two-tier study system. Since 1998, a scheme of first- and second-level degree programmes (Bachelor and Master) was introduced to be offered parallel to or instead of integrated "long" programmes. These programmes are designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

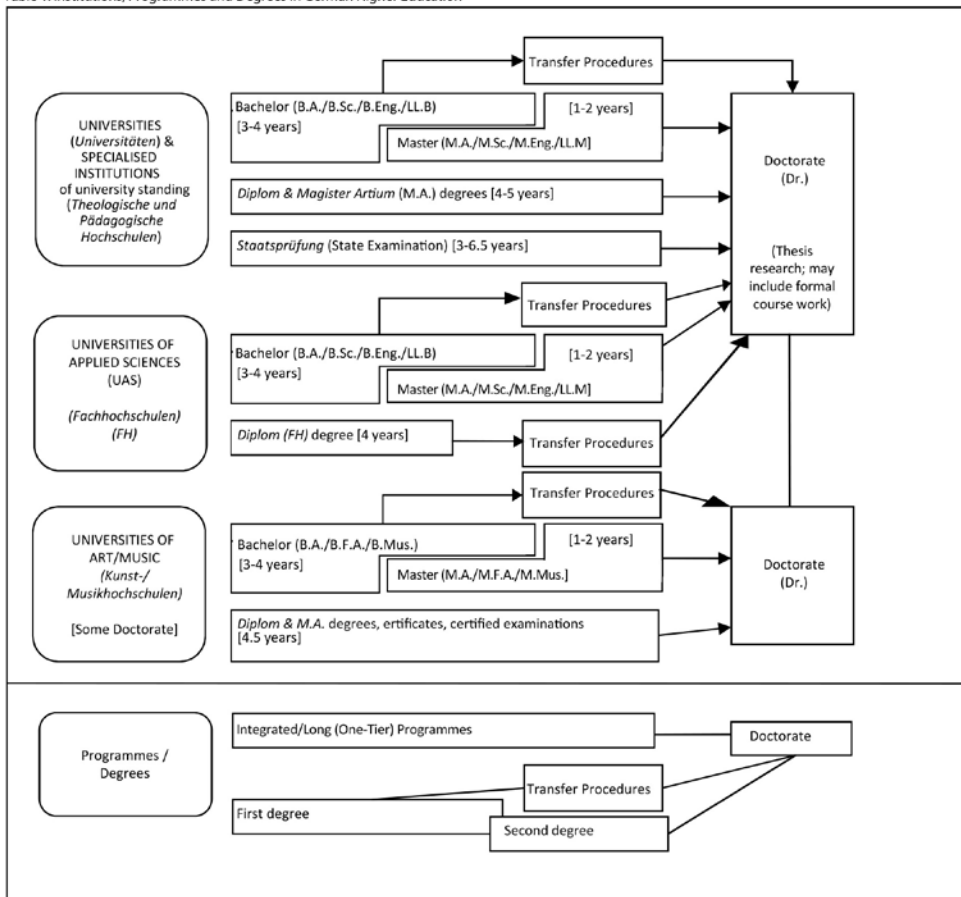
The German Qualifications Framework for Higher Education Degrees³, the German Qualifications Framework for Lifelong Learning⁴ and the European Qualifications Framework for Lifelong Learning⁵ describe the degrees of the German Higher Education System. They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).⁶ In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.⁷

Table 1: Institutions, Programmes and Degrees in German Higher Education



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the Study program s makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree Study program s lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years.

The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study program s in Germany.⁸

First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework / European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master Study program s may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree Study program includes a thesis requirement. Study program s leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study program s in Germany.⁹ Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (LL.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master Study program s which are designed for continuing education may carry other designations (e.g. MBA). The Master degree corresponds to level 7 of the German Qualifications Framework / European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated Study program is either mono-disciplinary (Diplom degrees, most programmes completed by a Staatsprüfung) or comprises a combination of either two major or one major and two minor fields (Magister Artium). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for Diplom degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework / European Qualifications Framework. They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework / European Qualifications Framework. While the *FH/UAS* are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated Study program awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art / Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (Study program s such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor. The doctoral degree corresponds to level 8 of the German Qualifications Framework / European Qualifications Framework.

8.5 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "Sehr Gut" (1) = Very Good; "Gut" (2) = Good; "Befriedigend" (3) = Satisfactory; "Ausreichend" (4) = Sufficient; "Nicht ausreichend" (5) = Non-Sufficient/Fail. The minimum passing grade is "Ausreichend" (4). Verbal designations of grades may vary in some cases and for doctoral degrees. In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at Fachhochschulen (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to Study program s at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to Study program s at Universities of Art/Music and comparable Study program s at other higher education institutions as well as admission to a Study program in sports may be based on other or additional evidence demonstrating individual aptitude. Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification and thus to access to all Study program s, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.¹⁰ Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Tel.: +49(0)228/501-0; Fax: +49(0)228/501-777
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- "Documentation and Educational Information Service" as German EURYDICE-Unit, providing the national dossier on the education system (<http://www.kmk.org/dokumentation/deutsche-eurydice-stelle-der-laender.html>)
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahhrstrasse 39, D-53175 Bonn; Fax: +49(0)228/887-110; Phone: +49(0)228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

¹ The information covers only aspects directly relevant to purposes of the Diploma Supplement. All information as of January 2015.

² *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.

³ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 21 April 2005).

⁴ German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de

⁵ Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).

⁶ Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).

⁷ "Law establishing a Foundation "Foundation for the Accreditation of Study program s in Germany"", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation for the Accreditation of Study program s in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

⁸ See note No. 7.

⁹ See note No. 7.

¹⁰ Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

