

Programmspezifische Regelungen

Diploma of Advanced Studies (DAS)
“Sustainable Cities, Urban Development
and Infrastructure”

KompetenzCampus – Weiterbildung und Lebenslanges Lernen

Programmspezifische Regelungen Certificate of Advanced Studies „Urban Development and Sustainable Cities“ des KompetenzCampus der Frankfurt University of Applied Sciences vom <12.07.2023>

Die nachfolgenden Programmspezifischen Regelungen entsprechen den Allgemeinen Regelungen für hochschulzertifizierte Weiterbildungsmaßnahmen der Frankfurt University of Applied Sciences, am 15.12.2021 vom Senat beschlossen und am 25.01.2022 vom Präsidium der Frankfurt University of Applied Sciences genehmigt nach § 43 Abs. 5 des Hessischen Hochschulgesetzes (HHG) vom 14. Dezember 2021, veröffentlicht auf der Internetseite der Amtlichen Mitteilungen der Frankfurt University of Applied Sciences.

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§1 Gegenstand, Inhalt und Format

Der KompetenzCampus, Abteilung für Weiterbildung und Lebenslanges Lernen an der Frankfurt University of Applied Sciences bietet kostenpflichtige hochschulzertifizierte Weiterbildungsmodule an, die mit ECTS-Punkten (Credit Points) versehen sind. Das Entgelt richtet sich § 3, Absatz 5 der Allgemeinen Regelungen für hochschulzertifizierte Weiterbildungsmaßnahmen der Frankfurt University of Applied Sciences.

Das Angebot umfasst folgendes Format:

Diploma of Advanced Studies, 30 ECTS-Punkte (Credit Points).

§ 2 Ausbildungsziel und Abschlussbezeichnung

- (1) Das Qualifikationsziel der einzelnen Weiterbildungsmodule ergibt sich aus den jeweiligen Modulbeschreibungen gemäß Anlage 1.
- (2) Die Module werden auf dem Qualifikationsniveau des zweiten Studienzyklus (Master-Ebene) angeboten.
- (3) Das Qualifikationsziel des Zertifikatskurses „Diploma of Advanced Studies – Sustainable Cities, Urban Development and Infrastructure“ ist die kompakte Vermittlung aktuell relevanter Kompetenzen und Skills im Bereich Stadtentwicklung, nachhaltige Städte und städtische Infrastruktur. Hier stehen insbesondere die Themen soziale und kulturelle Herausforderungen der Städte, Grünflächen und öffentliche Räume, Stadtentwicklung und nachhaltige Städte sowie die Themen Abfall und Energie, Wasser und Abwasser und Mobilität in Städten im Vordergrund.
- (4) Das Zertifikat mit der Abschlussbezeichnung „Diploma of Advanced Studies – Sustainable Cities, Urban Development and Infrastructure“ mit 30 ECTS wird vergeben, wenn alle sechs Weiterbildungsmodule des Zertifikats mit Prüfung erfolgreich absolviert wurden. Das Zertifikat enthält eine Beschreibung des Programms sowie eine Übersicht über die nachgewiesenen Leistungen in den Modulen.

§ 3 Zugangsvoraussetzungen

Zu den hochschulzertifizierten Weiterbildungsangeboten können diejenigen Personen zugelassen werden, die über einen ersten Hochschulabschluss verfügen sowie diejenigen, die die für die Teilnahme erforderliche Eignung im Beruf oder auf andere Weise erworben haben.

§ 4 Aufnahmeverfahren

- (1) Die Aufnahme in die Weiterbildungsmodule und die Zertifikatskurse richtet sich nach den verfügbaren Plätzen. Ein Anspruch auf Aufnahme besteht nicht.
- (2) Die Aufnahme in die Weiterbildungsmodule und Zertifikatskurse erfolgt nur, wenn das Entgelt entrichtet wurde.

§ 5 Module und Leistungsnachweise

- (1) Die einzelnen Weiterbildungsmodule haben einen Umfang von 5 ECTS-Punkten. Dabei umfasst ein ECTS-Punkt einen Arbeitsaufwand von 25 Stunden.

- (2) Das Programm des „Diploma of Advanced Studies“ hat einen Umfang von 30 ECTS-Punkten (Credit Points).
- (3) Die Lernergebnisse und Inhalte der Module, die ECTS-Punkte (Credit Points), die Arbeitslast und die Art und Dauer der jeweiligen Prüfungen und Leistungsnachweise ergeben sich aus den Modulbeschreibungen (Anlage 1). Die Häufigkeit des Angebots ergibt sich aus der Nachfrage zum jeweiligen Modul.
- (4) Für die Anrechnung der Weiterbildungsmodule gilt § 16 der Allgemeinen Regelungen für hochschulzertifizierte Weiterbildungsmaßnahmen.

§ 6 Prüfungsausschuss

Der KompetenzCampus richtet gemäß § 17 der Allgemeinen Regelungen für hochschulzertifizierte Weiterbildungsmaßnahmen einen Prüfungsausschuss ein, dem mindestens drei und höchstens fünf Mitglieder angehören. Diese werden für die Dauer von bis zu 3 Jahren gewählt.

§ 7 Meldung und Zulassung zu Prüfungsleistungen

Der Prüfungsausschuss legt die Prüfenden, die Termine, den Anmeldezeitraum sowie den Rücknahmezeitraum für Meldungen zu Prüfungsleistungen der Module fest.

§ 8 Inkrafttreten

Diese Programmspezifischen Regelungen treten am 12.07.2023 in Kraft. Sie werden auf der Website des KompetenzCampus veröffentlicht.

Frankfurt am Main, 12.07.2023

Prof. Dr. Kai-Oliver Schocke
Präsident

Anlage 1: Modulbeschreibungen

Modul 1: Urban Development and Sustainable Cities

Module Title	Urban Development and Sustainable Cities
Study Program	CAS Sustainable Urban Development
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	a) none
	b) Portfolio examination consisting of two parts: Part 1: written examination, 120 minutes, weighting 50% Part 2: written assignment, submission period 8 weeks, weighting 50% The examination is passed if at least 50% of the possible score has been achieved.
Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students are familiar with the trends, characteristics and problems of global urbanization. They have a broad understanding of physical, social, cultural, and economic diversity of urbanization and housing developments in different regions and continents. Students have a comprehensive knowledge of urban development processes both in the past and today. They understand the concept of sustainability and its history as a global political process, along with its urban and transport planning implications for cities. Students appreciate the critical role played by transport in shaping both the form of cities and some of the types of environmental, social and economic problems they experience. Students understand the concept of inclusion in the urban planning process. They have a broad knowledge of Universal Design, its theory and practical application in the urban context.</p> <p>Use, application and generation of knowledge (professional and methodological skills) Students can conceive approaches for developing more sustainable cities which can successfully challenge and change the way cities have grown and developed so far. They can apply their professional knowledge to elaborate physical, functional and infrastructural concepts for more sustainable urban and city-regional development. Students can integrate their expertise in new planning concepts into multidisciplinary contexts. They are capable to structure and develop a given project assignment that conforms to academic norms. Students can apply basic competencies in data analysis, quantitative and qualitative research and academic writing.</p>

	<p>Communication and cooperation (personal and social competences) Students have developed the capacity for critical evaluation and reflected argumentation. They have practiced communication skills and expressing themselves publicly. Students have presented their ideas and planning concepts in class amongst their peers and teachers within defined time limits.</p> <p>Scientific self-image and professionalism (personal self-competencies) Students are able to estimate and evaluate their own professional abilities and to find out what they might like to make a future career and professional contribution. They are capable to communicate using technical and specific terminology. Students are familiar and have practiced to respect intercultural diversity. They understand the variety in cultural norms about city development around the world.</p>
Module Contents	Urban Development and Sustainable Cities
Module Teaching Methods	Lectures, exercises, presentations
Language	English
Module Coordination	Programme Director Master Urban Agglomerations

Modul 2: Green and Public Spaces

Module Title	Green and Public Spaces
Study Program	CAS Sustainable Urban Development
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	a) none
	b) Project work, submission period 12 weeks
Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students understand the importance of green spaces infrastructure in cities from an environmental, social and economic perspective. They have knowledge of the wide variety of ways green design can be incorporated in cities (e.g. urban agriculture, biophilic architecture, parks and squares, community gardens, forests). Students appreciate that the “greening” of cities involves a variety of green technologies for energy, water, waste and transport systems. They understand the global oil problem and the need to green urban transport. Students have knowledge of technical, functional, ecological and aesthetic basics of landscape and open space planning and development in urban agglomerations. They have an understanding about the substance of green, of public spaces and of inclusive cities and their importance for sustainable planning. Students appreciate the diverse typologies, function and designs of public spaces in cities and can compare them with their home cultures and countries. They can understand and reflect different social and cultural attitudes and practices in a variety of green spaces and urban spaces.</p>

	<p>Use, application and generation of knowledge (professional and methodical skills) Students are able to conceive “green” concepts and proposals for a city and to critique existing efforts. They can transfer the acquired expertise into planning concepts for green and public spaces and integrate it into multidisciplinary contexts. Students are capable to solve key problems within green and public spaces by modifying and improving existing situations, considering social, cultural and physical aspects (such as spatial borders, routes of orientation) for the purpose of a more secure and inclusive city Students are able to structure and develop a given project assignment that conforms to academic norms.</p> <p>Communication and cooperation (personal and social competences) Students have developed the ability of critical and reflected argumentation as well as presentation and communication skills. They have practiced to present their design concepts in front of a group of experts, using technical and specific terminology.</p> <p>Scientific self-image and professionalism (personal self-competences) Students are self-confident in discussing green design and energy matters amongst peers and professionals. They are able to estimate and evaluate their own professional abilities within a multidisciplinary context. They are familiar with and respect for intercultural diversity.</p>
Module Contents	Green and Public Spaces
Module Teaching Methods	Seminar
Language	English
Module Coordination	Programme Director Master Urban Agglomerations

Modul 3: Social and Cultural Challenges of Cities

Module Title	Social and Cultural Challenges of Cities
Study Program	CAS Sustainable Urban Development
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	<p>a) none</p> <p>b) Portfolio examination consisting of three parts: Part 1: oral presentation, at least 10, at most 20 minutes, weighting 25% Part 2: written assignment, submission period 8 weeks, weighting 25% Part 3: project work, submission period 8 weeks, with presentation, at least 10, at most 20 minutes, weighting 50% The examination is passed if at least 50% of the possible score has been achieved.</p>
Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students are familiar with relevant theoretical approaches to cities and city-regions</p>

	<p>and the respective literature. They have a broad understanding of the contemporary social and cultural challenges of cities and urban agglomerations, segregation processes, the ongoing demographic changes and the effects of a globalizing world on migration and segregation. Students are aware of the role of different stakeholders and public participation in urban governance and urban planning processes.</p> <p>Use, application and generation of knowledge (professional and methodical skills) Students are able to formulate and critically evaluate the central concerns of social and intercultural aspects of urbanization, urbanity and diversity, identity and place. Students are capable to conceive and develop basic structures, methods and procedures of participation processes in urban projects. They can integrate their expertise on social and cultural issues into urban planning concepts and multidisciplinary contexts. Students can structure and develop a given written assignment that conforms to academic norms.</p> <p>Communication and cooperation (personal and social competences) Students have developed the capacity for critical evaluation and reflected argumentation. They have the ability to cooperate in teams, to organize and moderate teamwork and to express and bring an individual position. They have extensive communication skills and confidence in expressing themselves publicly. They are capable to guide and moderate discussions.</p> <p>Scientific self-image and professionalism (personal self-competences) Students are able to estimate and evaluate their own professional role within complex and multidisciplinary urban planning and development processes and a diverse field of different social, cultural and economic actors.</p>
Module Contents	Social and Cultural Challenges of Cities
Module Teaching Methods	Seminar, lectures, exercises
Language	English
Module Coordination	Programme Director Master Urban Agglomerations

Modul 4: Mobility in Cities

Module Title	Mobility in Cities
Study Program	CAS Urban Infrastructure
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	a) none
	b) Project work, submission period 12 weeks

Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students understand the basics of the 4-Step Urban Transport Planning process. They know the limitations and outcomes of the traditional approach to transport planning and are aware of alternative approaches. They have a broad, global appreciation of the importance of urban public transport systems and non-motorised modes (bicycle and pedestrian) and understand how to better cater and promote these modes in cities. Students have a knowledge of scientific methods and practical applications for planning, design and services of transportation systems for moving traffic and stationary traffic. They know best practices and case-studies of transport projects and policies world-wide. They understand key problems confronting urban development today and of fundamental approaches of how to develop more ecologically oriented cities.</p> <p>Use, application and generation of knowledge (professional and methodical skills) Students are able to critically analyse transport plans for their sustainability and relevance to current needs in cities. They have a working knowledge of transport planning techniques and needs for different modes, including the flowing and the parking traffic, public transport, bicycle and pedestrian traffic in cities. They are able to apply their key qualifications and advanced competences of traffic planning, infrastructure planning and relevant sociological interrelations. Students are capable to link and integrate transport proposals into wider urban development concepts. Students have enlarged competencies in data analysis, quantitative research and academic writing.</p> <p>Communication and cooperation (personal and social competences) Students have skills to work in an interdisciplinary planning environment which calls for knowledge and competency across a wide range of transport issues. They are able to solve challenges in teams. They have practiced social and intercultural competencies. They have presented and communicated both in working groups and to larger audiences. Students have developed the capacity for critical evaluation and reflected argumentation.</p> <p>Scientific self-image and professionalism (personal self-competences) Students have developed confidence to participate in scientific and public discussions about the future of mobility and transport systems in cities. They are enthusiastic and self-motivated to apply their knowledge in their professional career. By learning about current scientific research results, students improve their level of professionalism and can develop their own scientific approaches supporting their scientific self-image.</p>
Module Contents	Mobility in Cities
Module Teaching Methods	Seminar, lectures, exercises
Language	English
Module Coordination	Programme Director Master Urban Agglomerations

Modul 5: Urban Infrastructure: Water and Sewage

Module Title	Urban Infrastructure: Water and Sewage
Study Program	CAS Urban Infrastructure
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	a) none
	b) Written assignment, submission period 8 weeks
Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students are familiar with the relevant challenges, approaches, instruments and procedures to deal with water demand, collection, management, distribution and supply in cities and surrounding regions. They are aware of environmental and health aspects of water and wastewater pollution. They have a broad knowledge of wastewater components, treatment and disposal. Students are familiar with concepts for stormwater treatment and rainwater harvesting. They have a knowledge of international best practice examples of water sensitive planning and design.</p> <p>Use, application and generation of knowledge (professional and methodical skills) Students can apply their knowledge on water demand, collection, management and supply in cities in urban development concepts and multidisciplinary contexts. Students can apply their knowledge on sewage systems, management, treatment and disposal in urban development concepts and multidisciplinary contexts. They can conceive and elaborate proposals for water sensitive planning and design in cities. Students are capable to structure and develop a given assignment on the topic of urban infrastructure that conforms to academic norms.</p> <p>Communication and cooperation (personal and social competences) Students have developed competencies in structured and sound academic writing. They have cooperated in multidisciplinary teams and presented their results in classroom. They have the capacity for critical evaluation and reflected argumentation.</p> <p>Scientific self-image and professionalism (personal self-competences) Students are able to understand and position the impact of urban infrastructure related to water and wastewater in their professional field of urban and regional development and to conceive and use technologies in an appropriate and sustainable manner.</p>
Module Contents	Urban Infrastructure: Water and Sewage
Module Teaching Methods	Lectures, Seminar
Language	English
Module Coordination	Programme Director Master Urban Agglomerations

Modul 6: Urban Infrastructure: Waste and Energy

Module Title	Urban Infrastructure: Waste and Energy
Study Program	CAS Urban Infrastructure
Applicability of the Module to Other Study Programs	Master Urban Agglomerations / DAS Sustainable Cities, Urban Development and Infrastructure
ECTS (CP) / Workload (h)	5 CP / 125 h
Recommended Previous Knowledge	none
Prerequisites for Module Participation	none
Prerequisites for Module Examination (a) Module Examination (b)	a) none
	b) Written assignment, submission period 8 weeks
Learning Outcomes and Skills	<p>Knowledge and understanding (professional skills) Students are familiar with the relevant approaches, instruments and procedures of waste composition, prevention, collection, utilization and recycling as well as treatment of solid waste within cities and urban agglomerations. They are aware of global and legal aspects related to waste and energy. They have a broad knowledge of background, challenges and practices of energy demand, production and supply in cities and city-regions. They know the implications related to fossil and renewable energies with regards to the development of more sustainable cities. Students are familiar with concepts for energy efficiency and energy saving on a city and city-regional scale.</p> <p>Use, application and generation of knowledge (professional and methodical skills) Students can apply their knowledge on waste prevention, collection, recycling and treatment processes in urban development concepts and multidisciplinary contexts. Students can apply their knowledge on the theory and practice of energy provision, supply and efficiency in cities in urban development concepts and multidisciplinary contexts. Students are capable to structure and develop a given assignment on the topic of urban infrastructure that conforms to academic norms.</p> <p>Communication and cooperation (personal and social competences) Students have developed competences in structured and sound academic writing. They have cooperated in multidisciplinary teams and presented their results in classroom. They have the capacity for critical evaluation and reflected argumentation.</p> <p>Scientific self-image and professionalism (personal self-competences) Students are able to understand and position the impact of urban infrastructure related to waste and energy in their professional field of urban and regional development and to conceive and use technologies in an appropriate and sustainable manner.</p>
Module Contents	Urban Infrastructure: Waste and Energy
Module Teaching Methods	Seminar, lectures
Language	English
Module Coordination	Programme Director Master Urban Agglomerations