

REGULATIONS FOR THE DEGREE OF MASTER OF CLIMATE GOVERNANCE AND RISK MANAGEMENT (MCGRM)

(See also General Regulations and Regulations for Taught Postgraduate Curricula)

These Regulations apply to candidates admitted to the Master of Climate Governance and Risk Management curriculum in the academic year 2026-27 and thereafter.

Admission requirements

MCGRM 1. To be eligible for admission to the courses leading to the degree of Master of Climate Governance and Risk Management, candidates

- (a) shall comply with the General Regulations and the Regulations for Taught Postgraduate Curricula;
 - (b) shall hold
 - (i) a Bachelor's degree with honors of this University; or
 - (ii) another qualification of equivalent standard from this University or from another University or comparable institution accepted for this purpose; and
 - (c) satisfy the examiners in a qualifying examination, if required.
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Qualifying examination

MCGRM 2.

- (a) A qualifying examination may be set to test the candidates' formal academic ability or their ability to follow the courses of study prescribed. It shall consist of one or more written papers or their equivalent, and may include a project report.
 - (b) Candidates who are required to satisfy the examiners in a qualifying examination shall not be permitted to register until they have satisfied the examiners in the examination.
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Award of degree

MCGRM 3. To be eligible for the award of the degree of Master of Climate Governance and Risk Management, candidates

- (a) shall comply with the General Regulations and the Regulations for Taught Postgraduate Curricula; and
 - (b) shall complete the curriculum and satisfy the examiners in accordance with the regulations set out below.
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Period of study

MCGRM 4. The curriculum shall normally extend over one academic year of full-time study. Candidates shall not be permitted to extend their studies beyond the maximum period of registration of two academic years of full-time study, unless otherwise permitted or required by the Board of the Faculty.

Advanced standing

MCGRM 5. Advanced standing of up to two required courses, except the capstone course, may be granted if

- (a) the course is completed at a graduate, postgraduate or master level from a recognised curriculum elsewhere within the last four years before admission to the Master of Climate Governance and Risk Management curriculum and achieved a good grade in the course; or
 - (b) the candidate possesses a relevant professional qualification which was obtained before admission to the curriculum.
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Exemption

MCGRM 6. Courses exemption of up to two required courses except the capstone course, may be granted (normally by examination) if candidates

- (a) can produce evidence, such as transcript and course syllabus, that a course is equivalent in content to another course taken elsewhere for which a satisfactory grade has been obtained;
- (b) are holding relevant professional qualifications which were obtained before admission to the curriculum.

No credits will be given for the exempted course and candidates shall be required to take an approved alternative course of the same credit value.

Completion of curriculum

MCGRM 7. To complete the curriculum, candidates shall

- (a) satisfy the requirements prescribed in TPG 6 of the Regulations for Taught Postgraduate Curricula;
 - (b) follow the courses of instruction and complete satisfactorily all prescribed written work and field work;
 - (c) satisfy the examiners in all prescribed courses as specified in the syllabuses and in any prescribed form of examination; and
 - (d) have achieved a cumulative GPA of 2.0 or above.
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Assessment

MCGRM 8. Candidates shall satisfy the examiners in all the prescribed courses as specified in the syllabuses. Examinations shall normally be held at the end of each course, unless otherwise specified. Only passed courses will earn credits.

MCGRM 9. Candidates who have failed a course shall be required to sit for re-assessment/re-examination or to retake the course. If the failure is an elective course, candidates may elect to take another course as a substitute.

MCGRM 10. Candidates who are unable, because of illness, to be present at the written examination of any course may apply for permission to present themselves at a supplementary examination of the same course to be held at some other time. Failure to sit for supplementary examination as arranged shall automatically result in course failure.

MCGRM 11. Candidates shall not be permitted to repeat a course for which they have received a passing grade for the purpose of upgrading.

MCGRM 12. Candidates who have failed in the assessment/examination or re-assessment/re-examination of more than two courses during the entire period of study of the curriculum or have exceeded the maximum period of registration as specified in Regulation MCGRM 6 shall be recommended for discontinuation under the provisions of General Regulations G12.

MCGRM 13. There shall be no appeal against the results of examinations and all other forms of assessment.

Grading systems

MCGRM 14. Courses shall be graded according to the one of the following grading systems:

<i>Grade</i>		<i>Standard</i>	<i>Grade Point</i>
A+	}	Excellent	4.3
A			4.0
A-			3.7
B+	}	Good	3.3
B			3.0
B-			2.7
C+	}	Satisfactory	2.3
C			2.0
C-			1.7
D+	}	Pass	1.3
D			1.0
F		Fail	0

Classification of awards

MCGRM 15. On successful completion of the curriculum, candidates who have shown exceptional merit at the completion of the curriculum may be awarded a mark of distinction, and this mark shall be recorded in the candidates' degree diploma.

SYLLABUSES FOR THE DEGREE OF MASTER OF CLIMATE GOVERNANCE AND RISK MANAGEMENT (MCGRM)

These syllabuses apply to candidates admitted to the Master of Climate Governance and Risk Management in the academic year 2026-27 and thereafter.

CURRICULUM STRUCTURE

Unless advanced standing is granted, candidates normally need to take a total of six core courses (inclusive of one castone course), together with 24 credits of elective courses. A list of electives will be announced at the beginning of each module. Candidates may also take up to two elective courses from the taught postgraduate curricula offered by the Faculty of Social Sciences under the advice and approval of the Programme Directors concerned. The programme shall extend over not less than one and not more than two academic years of full-time study.

Not all the courses listed in the syllabuses will necessarily be offered each academic year.

EXEMPTION

Candidates may be granted exemption of up to two courses in recognition of studies completed in related areas. Exemption will only be considered in special circumstances and each application for exemption will be considered on its own merit. Candidates with exemption granted are required to take an additional elective course to replace the exempted course to meet the degree requirements.

ASSESSMENTS

To complete the programme, candidates shall satisfy the examiners in the assessment of courses as prescribed in the programme. Assessments of the courses may be conducted either by course assignments, by presentations, or by written tests, or a combination of both methods. The grading system follows the standard practice in the Faculty of Social Sciences.

CURRICULUM

Compulsory courses

Candidates shall complete the following courses.

- CGRM7001. Corporate governance and climate risk management (6 credits)
- CGRM7002. Climate and energy economics (6 credits)
- CGRM7003. Climate change policy and law (6 credits)
- CGRM7004. Climate solution and innovation (6 credits)
- CGRM7005. Practice in ESG and carbon accounting (6 credits)

Elective courses

Candidates shall complete four to six of the following courses.

- CGRM7101. Climate finance and ESG (6 credits)
- CGRM7102. Field study on climate risk mitigation (6 credits)
- CGRM7103. Climate investment (6 credits)
- CGRM7104. Public health and climate impact (6 credits)
- CGRM7105. Topics in global environmental change (6 credits)
- CGRM7106. Sustainable urban planning and green building (6 credits)
- CGRM7107. International study field trip – Europe and global governance (6credits)
- CGRM7108. Professional development programme (6 credits)

- CGRM7109. Independent study project (6 credits)
- CGRM7110. Career orientated training (6 credits)
- CGRM7111. Climate nature workshop (6 credits)
- CGRM7112. Addressing climate change with blockchain and Web3 (6 credits)
- CGRM7113. Climate communication and public event (3 credits)
- CGRM7114. Research paper publication / competition (3 credits)
- CGRM7115. ICCN climate talks (3 credits)
- CGRM7116. Special projects (3 credits)
- CGRM7117. Climate justice and equitable transition (3 credits)
- CGRM7118. Transportation policy and decarbonization (3 credits)
- CGRM7119. Renewable energy (3 credits)
- CGRM7120. International study field trip – Asia Pacific & climate innovation (6 credits)

Capstone experience course

Candidates shall complete the following course.

- CGRM7006. Capstone (6 credits)

(Note: not all courses will necessarily be offered in a given year.)

COURSE DESCRIPTIONS

Compulsory Courses

CGRM7001. Corporate governance and climate risk management (6 credits)

Climate change presents one of the most significant risks to global economic stability and corporate resilience. CGRM7001 Corporate Governance and Climate Risk Management explores how organizations can integrate climate considerations into governance frameworks to mitigate risks, ensure compliance, and create long-term value. As stakeholders—including investors, regulators, and consumers—demand greater climate accountability, this course provides the strategic and analytical tools needed to navigate this evolving landscape.

The course examines the intersection of corporate governance and climate-related risks, emphasizing how boards and executives can embed sustainability into decision-making. Students will analyze 1) Climate Risk Frameworks: Physical, transition, and liability risks, and their financial implications; 2) Governance Structures: Board oversight, executive accountability, and climate-related governance best practices; 3) Regulatory & Disclosure Standards: TCFD, ISSB, SEC climate rules, and evolving global reporting requirements. ESG Integration: How environmental, social, and governance factors influence corporate strategy and risk management; 4) Stakeholder Engagement: Aligning investor expectations, regulatory demands, and corporate climate commitments; and 5) Scenario Analysis & Stress Testing: Tools for assessing climate resilience under different future conditions.

Assessment: 100% coursework

CGRM7002. Climate and energy economics (6 credits)

This course provides a rigorous analytical framework for understanding the economic drivers of climate change and the global transition to sustainable energy systems by examining market failures, externalities, and the Social Cost of Carbon. Students will evaluate the efficiency of diverse policy instruments—including carbon taxes, cap-and-trade systems, and renewable energy subsidies—while analyzing the shifting market dynamics between fossil fuels and renewables. The curriculum bridges economic theory with practical energy market challenges, such as the Levelized Cost of Energy (LCOE), energy security, and the management of stranded assets. By exploring the investment logic behind green innovation and the socio-economic implications of a "just transition," students will develop the skills to model the economic impacts of climate policies and navigate the financial complexities of the global energy evolution.

Assessment: 100% coursework

CGRM7003. Climate change policy and law (6 credits)

This course explores the scientific, economic, and social foundations of climate change policy, alongside the legal frameworks shaping mitigation and adaptation strategies across jurisdictions like China, Hong Kong, the U.S., and the EU. Students will study and analyze policy-making processes, cost-benefit trade-offs, and regulatory instruments while examining how global climate policies impact businesses and competitiveness. The course integrates perspectives on

public participation, international trade, and comparative legal studies, featuring guest lectures on policy practice.

Assessment: 100% coursework

CGRM7004. Climate solutions and innovation (6 credits)

The Climate Solutions and Innovation course is designed and delivered by climate change experts and educators. It tackles the biggest challenge of climate change by giving each of us the knowledge and tools we need to make a real difference. Designed to be accessible and engaging throughout, it provides the facts you need to know about what climate change is, and the solutions you need to know so you can be part of fighting it. Look around you and imagine the place you are right now three decades in the future. The wood, glass, cement, steel, and plastics, the electricity you use, and the food you eat—all of it could be made and transported in completely new ways with little to no impact on our climate. In this course, students will learn about emerging solutions for reducing global greenhouse gas emissions and debate the best applications for green technologies.

Assessment: 100% coursework

CGRM7005. Practice in ESG and carbon accounting (6 credits)

This course provides comprehensive, hands-on training in the professional methodologies required to measure, manage, and report the carbon footprint and ESG performance of modern organizations. By bridging theoretical frameworks with practical industry applications, the course empowers students to master the fundamentals of emission boundaries and scopes while leveraging advanced data analytics, Life Cycle Assessments (LCA), and environmentally extended input-output models to pinpoint emission hotspots. Through the development of evidence-based mitigation strategies and the study of international reporting standards—such as HKEX, ISSB, and GRI—students will gain the technical proficiency necessary to drive informed decision-making, ensure corporate transparency, and lead the institutional transition toward a lower-carbon economy.

Assessment: 100% coursework

Elective Courses

CGRM7101. Climate finance and ESG (6 credits)

The course delves into the dynamic intersection of financial markets, climate change, and Environmental, Social, and Governance (ESG) principles. This course is designed to equip students with the knowledge and skills to navigate and influence the financial aspects of climate change, fostering a sustainable, resilient future. The learning objectives of this course include:

1. Explore the concepts, tools, and instruments involved in financing climate mitigation and adaptation efforts. Learn about green bonds, carbon markets, and climate-related financial risks;
2. Gain insights into ESG principles, how they integrate into investment analysis, and their impact on corporate strategies and financial performance;
3. Analyze international and regional regulatory frameworks, policies, and standards shaping climate finance and ESG investing;
4. Learn to identify, assess, and manage climate risks and opportunities in financial portfolios and corporate operations;
5. Develop strategies to balance financial returns with positive environmental and social outcomes. Understand the role of stakeholders in driving ESG integration.

By the end of this course, students will be adept at leveraging financial tools for

sustainable development, integrating ESG considerations into investment decisions, and leading initiatives that contribute to a low-carbon, equitable economy.

Assessment: 100% coursework

CGRM7102. Field study on climate risk mitigation (6 credits)

This immersive field study course provides students with hands-on experience in assessing and mitigating climate risks in real-world settings. Through site visits, stakeholder engagement, and applied research, participants will analyze local and regional climate vulnerabilities while evaluating practical adaptation and resilience strategies. The Key Learning Components include:

- Field-based climate risk assessments (urban, coastal, agricultural or other ecosystems)
- Evaluation of community-based adaptation strategies
- Data collection and analysis of climate impacts
- Stakeholder interviews with local governments, NGOs and affected communities
- Comparative analysis of mitigation approaches across different geographic contexts

Assessment: 100% coursework

CGRM7103. Climate investment (6 credits)

The course provides students with an understanding of principal concepts emerging within the financial sector to taken climate change into account in decision-making and portfolio management. Across both public and private sector financial actors, two principal areas of focus are the management of risks and opportunities associated with climate change and the alignment of assets and portfolios with climate goals agreed by governments. The application and implementation of these management strategies, in turn, is highly dependent different types of forward-looking assessments such as scenarios, forecasting and modelling. The course develops practical knowledge for implementing these practices. Students will develop the critical thinking skills to evaluate whether emerging practices are fit for purpose for use by different financial actors (banking, asset management, institutional investors) as well as for different mandates (impact-driven versus maximising financial returns).

Assessment: 100% coursework

CGRM7104. Public health and climate impact (6 credits)

This course is a comprehensive course that provides foundational, theoretical, and practical knowledge and skills in the field of climate change and its impact on public health. The course prepares participants to be knowledgeable in climate change principles and implementation of adaptation and mitigation strategies. By looking at air quality, nutrition, infectious diseases, and human migration, this course will show students how increases in greenhouse gases impact public health. Experts working in a variety of settings will present their recommendations for responding to these challenges, and interested students will have the opportunity to learn about the research methods that measure the health effects of climate change. Created with support from the HKU School of Public Health, this course will explain how climate change impacts people around the globe, but also how it directly affects you and your life. Though the risk rises with the rising global temperatures, climate change is a solvable problem, and there are things you can do to mitigate that risk.

Assessment: 100% coursework

CGRM7105. Topics in global environmental change (6 credits)

This course is an interdisciplinary introduction to the science of global environmental change. Emphasis will be placed on understanding principles of earth system science, the scientific basis underlying the major components of global environmental change, the linkages between these components, and the central role of humanity in contributing to the observed changes. This course will emphasize current scientific topics in an interdisciplinary way. While this course is not intended for Biology majors, it is expected that students have some previous coursework in the natural sciences (biology, chemistry or physics). Most notably this course will help students develop: an enhanced understanding of the natural world and its change over space and time, the scientific method and the power and limits of science; effective skills in research, writing, speaking, reading and listening; and critical and analytical reasoning skills required to solve abstract and concrete problems.

Assessment: 100% coursework

CGRM7106. Sustainable urban planning and green building (6 credits)

The concepts of urban sustainability are driving the regulation of the built form in our increasingly large, complex, and smart cities. The global sustainable development goals have also led urban regulators to embrace more participatory and innovative forms of governance for our society and economy. This course explores how these concepts apply to the regulation of planning and construction, and to the framework and governance for developing smart, resilient, and sustainable cities. In particular, it will focus on a foundational understanding of sustainable urban planning and green building, exploring the role of local and regional policies, practices, and strategies in achieving livable communities. The course will cover Environmentally Sustainable Development (ESD) Local Planning Policies and consider whether planning regulation in Hong Kong incorporates best practices in environmental assessment. It will also delve into different facets of urban planning, from key issues such as climate change, housing, landscapes, and development models, to examine the respective contributions of each in driving sustainable outcomes. Another component of this course will introduce green building, focusing on lifecycle assessment from design to revitalization, and explore the application of advanced technologies such as Building Information Modelling (BIM). This section highlights the shift in regulatory dynamics that support sustainability goals in the built environment, offering students insights into both specific building projects and broader applications.

Assessment: 100% coursework

CGRM7107. International study field trip – Europe and governance (6 credits)

This intensive experiential learning course examines climate resilience through Europe's advanced regulatory frameworks, corporate governance excellence, and strategic policy development. Students bridge the gap between theoretical risk management and real-world application by engaging with high-level ESG case studies and sustainability frameworks across European economies. The primary purpose of this study trip is to analyze how developed markets establish and implement world-leading climate policies, and to understand the mechanisms through which corporations, governments, and international organizations negotiate public-private partnerships for climate action.

The course focuses on Europe's triple pillars of climate resilience: advanced corporate governance frameworks, cutting-edge technological innovation adoption, and sophisticated adaptive policy development. Students explore how European institutions shape global climate standards and influence international climate negotiations. While the specific destinations and case studies are adjusted annually based on the UN Climate Change Conference (COP) focus and emerging climate governance priorities, the core learning objectives remain consistent:

understanding regulatory excellence, governance frameworks, and strategic dialogues that drive climate action at the highest levels.

Assessment: 100% coursework

CGRM7108. Professional development programme (6 credits)

The course aims to provide students with practical knowledge and workplace skillsets shared by practitioners from various commercial and industrial sectors for the professional development and career advancement of students. Trending topics and current issues will be covered to equip students with the mindset and calibre for the challenges they are going to come across at workplace. With an emphasis on practice, the course instructors will deliver in-depth lectures on real world business issues.

Assessment: 100% coursework

CGRM7109. Independent study project (6 credits)

This course offers a valuable opportunity for students to take ownership of their learning and produce an original and substantive piece of work. It allows them to tailor their studies to their individual interests and career aspirations. Students will produce a report or research paper on a topic of their choice on a specific business issue, industry or problem that they are particularly interested in. It gives them the opportunity to apply the skills and knowledge gained throughout the master's programme in a self-directed study project under the supervision of a faculty advisor.

Assessment: 100% coursework

CGRM7110. Career oriented training (6 credits)

This intensive, hands-on training is designed for professionals ready to move from theory to practice in the fight against climate change. Focused on real-world application, the curriculum provides rigorous training in the core technical skills demanded by industry. Students will gain practical experience in such as carbon accounting, mastering the methodologies for measuring organizational footprints. The program also delves into leading standards and compliance frameworks, ensuring students can navigate complex regulatory environments. Finally, students will apply this knowledge through simulated exercises in areas such as Carbon Monitoring, Reporting, and Verification (MRV), graduating with the confidence and expertise to implement effective, auditable climate action immediately.

Assessment: 100% coursework

CGRM7111. Climate and nature workshop (6 credits)

This academically rigorous workshop is designed for action-oriented students and professionals seeking to apply theoretical climate science to real-world challenges. Moving beyond the textbook, the course is structured around immersive, project-based learning focused on critical and vulnerable systems. Students will engage directly with contemporary issues such as developing resilience strategies for Plant Adaptation to Climate Change and analyzing the impacts and solutions for Coastal and Ocean Systems. Through case studies, field work, and simulation models, students will learn to assess vulnerabilities, design intervention strategies, and effectively communicate findings to stakeholders, bridging the gap between academic knowledge and tangible climate solutions.

Assessment: 100% coursework

CGRM7112. Addressing climate change with blockchain and web3 (6 credits)

This course offers a rigorous, end-to-end exploration of how blockchain and Web3 technologies can be harnessed to address the challenges of climate change. Beginning with the fundamentals of distributed ledgers, consensus mechanisms and smart contracts, students will learn how decentralization creates transparent, trustless systems for tracking emissions, financing clean-energy projects and improving climate governance and green finance. A central theme of the course is the tokenization of carbon credits. Students will examine how on-chain frameworks transform traditional carbon markets — from bridging verified credits on registries such as Verra onto decentralized platforms, to the design of automated market-making mechanisms that improve liquidity and price discovery. The course also investigates how regulatory developments, including the EU's Markets in Crypto-Assets (MiCA) framework, shape transparency and market quality in this emerging asset class. Beyond carbon tokenization, the curriculum explores the use of blockchain-based prediction markets for climate risk assessment. Students will analyze how platforms such as Polymarket aggregate dispersed information to price climate-related events — from extreme weather outcomes to corporate acquisition risks — and evaluate whether these markets can serve as effective governance tools, for instance by disciplining corporate greenwashing through real-time, publicly observable risk pricing. Throughout the course, students engage with frontier research and real-world case studies, including the tokenization of renewable energy assets to bridge financing gaps and the empirical behavior of on-chain climate markets.

Assessment: 100% coursework

CGRM7113. Climate communication and public event (3 credits)

This practical workshop prepares professionals and advocates to effectively communicate climate issues and lead **engaging** public events. Focusing on the high-stakes context of **Hong Kong Climate Week**, participants will learn to craft compelling narratives that resonate with diverse audiences, from business leaders and policymakers to the general public. The curriculum covers message framing, managing difficult dialogues, and presentation skills for both formal conferences and community outreach. The culminating experience is the preparation and delivery of a live presentation, equipping students with the confidence and skills to become a powerful and persuasive voice for climate action in Asia's world city.

Assessment: 100% coursework

CGRM7114. Research paper publication /competition (3 credits)

This advanced module challenges high-achieving students to distill their research into a publication-ready manuscript or a compelling competition entry. Participants will develop a significant original analysis on a topic within climate governance and risk, with the explicit goal of submitting to a qualified academic journal or a well-recognized international competition. Students' work will be rigorously reviewed and mentored by the dedicated **teaching** faculty, providing expert guidance to refine methodology, argumentation, and impact. Successfully completing this module signifies a exceptional level of scholarly excellence and provides a powerful credential for students' academic or professional profile.

Assessment: 100% coursework

CGRM7115. ICCN climate talks (3 credits)

This program recognizes and cultivates deep, engaged learning through consistent participation in the renowned ICCN seminar series. To complete the module, students must attend a minimum of 10 ICCN Seminars, gaining exposure to a wide range of cutting-edge perspectives from leading climate practitioners and thinkers. The core of the learning is demonstrated through a critical Reflection Report, where students synthesize insights across seminars, draw connections to their own studies, and articulate a refined personal viewpoint on climate challenges. This report will be reviewed by the teaching faculty, providing personalized feedback to cement students' development as a knowledgeable and thoughtful climate leader.

Assessment: 100% coursework

CGRM7116. Special projects (3 credits)

This immersive course explores the intersection of climate science and practical application through engagement in research and commercial projects. Participants will gain a comprehensive understanding of climate-related challenges and the innovative solutions being developed in both academic and industry settings. Through case studies, collaborative projects, and hands-on activities, students will learn how to effectively contribute to sustainability initiatives, assess environmental impacts, and foster community involvement. Key topics include climate policy, sustainable business practices, and the role of emerging technologies in combating climate change. By the end of the course, students will be equipped with the skills and insights necessary to actively participate in and lead climate-focused projects that drive meaningful change.

Assessment: 100% coursework

CGRM7117. Climate justice and equitable transition (3 credits)

This course examines the critical intersection of climate change and social justice, focusing on how climate impacts disproportionately affect marginalized communities and exploring pathways toward equitable climate governance. Through the analysis of theoretical frameworks, policy instruments, and real-world case studies, students will critically assess the role of justice in climate risk management and decision-making. The course aims to deepen understanding of key concepts and ethical considerations, evaluate climate policies through the lens of equity, and develop strategies for inclusive, participatory, and just climate governance. Emphasizing both critical analysis and practical application, students will explore innovative approaches to addressing justice issues in climate action and foster skills to promote equitable solutions in climate policy and governance.

Assessment: 100% coursework

CGRM7118. Transportation policy and decarbonization (3 credits)

This course examines the critical role of the transport sector in the global climate agenda, focusing on the policy frameworks and technological shifts necessary to decarbonize the movement of people and goods. Students will analyze a diverse spectrum of mobility solutions—from the electrification of passenger vehicles and the expansion of mass transit to the more complex challenges of "hard-to-abate" sectors like maritime shipping and aviation. The curriculum evaluates the efficacy of various policy instruments, such as fuel efficiency standards, zero-emission vehicle (ZEV) mandates, and urban congestion pricing, while considering the infrastructure requirements for charging and alternative fuels. By integrating case studies on sustainable urban planning and multimodal logistics, students will develop a

comprehensive understanding of how to manage the economic, social, and regulatory trade-offs involved in achieving net-zero transport systems.

Assessment: 100% coursework

CGRM7119. Renewable energy (3 credits)

This course provides a comprehensive exploration of the global renewable energy sector, focusing on the technical, economic, and regulatory drivers of the transition from fossil fuels to clean energy. Students will examine the mechanics and scaling potential of core technologies—including solar PV, onshore and offshore wind, green hydrogen, and advanced energy storage—while evaluating their integration into modern power grids. The curriculum analyzes how international business environments and diverse cultural contexts shape energy policy, from feed-in tariffs and auctions to corporate power purchase agreements (PPAs).

Assessment: 100% coursework

CGRM7120. International study field trip – Asia Pacific & climate innovation (6 credits)

This intensive experiential learning course explores climate resilience across diverse Asian economies, examining how rapidly industrializing nations balance robust economic growth with net-zero commitments and alternative development paradigms. Students bridge the gap between theoretical risk management and real-world application by engaging with high-level case studies and sustainability frameworks across distinct economic contexts—from advanced financial hubs to developing industrial centers to pioneering alternative governance models. The primary purpose of this study trip is to understand technological innovation in climate solutions, adaptive policy development in emerging markets, and alternative governance approaches that challenge conventional development models.

The course focuses on Asia's triple pillars of climate resilience: innovative technological solutions in clean finance and industrial decarbonization, adaptive policy development in response to rapid industrialization, and alternative governance paradigms that prioritize environmental stewardship and social wellbeing. Students analyze how Asian nations shape global climate commitments while addressing region-specific challenges of physical climate risks and industrial transition. While the specific destinations and case studies are adjusted annually based on the UN Climate Change Conference (COP) focus and regional climate priorities, the core learning objectives remain consistent: understanding technological innovation, adaptive governance, and alternative development pathways that drive climate resilience across diverse Asian economies.

Assessment: 100% coursework

Capstone Experience Course

CGRM7006. Capstone (6 credits)

The capstone project provides students a foundation in positioning, analyzing, and managing strategy for climate risk and adaptation in companies, stakeholders and society. The first part of the course focuses on building skills – how to position an innovative research and practice topic, how to collect and analyze multi-source datasets and information, and how to conduct statistical analysis to convince explicit evidence. Through the study of practice in real-world, students will ascertain the effectiveness of different mitigation and adaptation strategies. The course then turns to explore climate risks and resilience metrics, looking at how to define

metrics that are measurable, computable and comparable, which include both mean and variability, recent past, current trends, and projection of risks. Possible indicators to measure climate potential include social, financial, environmental and impact-driven ones. The second part of the course focuses on interdisciplinary exposure by lectures from different fields such as academia, industries, and practices. By the end of the course, students are expected to possess a robust understanding of climate risks, the ability to develop and implement comprehensive sustainability strategies, and the capacity to lead change in their respective fields or organizations.

Assessment: 100% coursework
