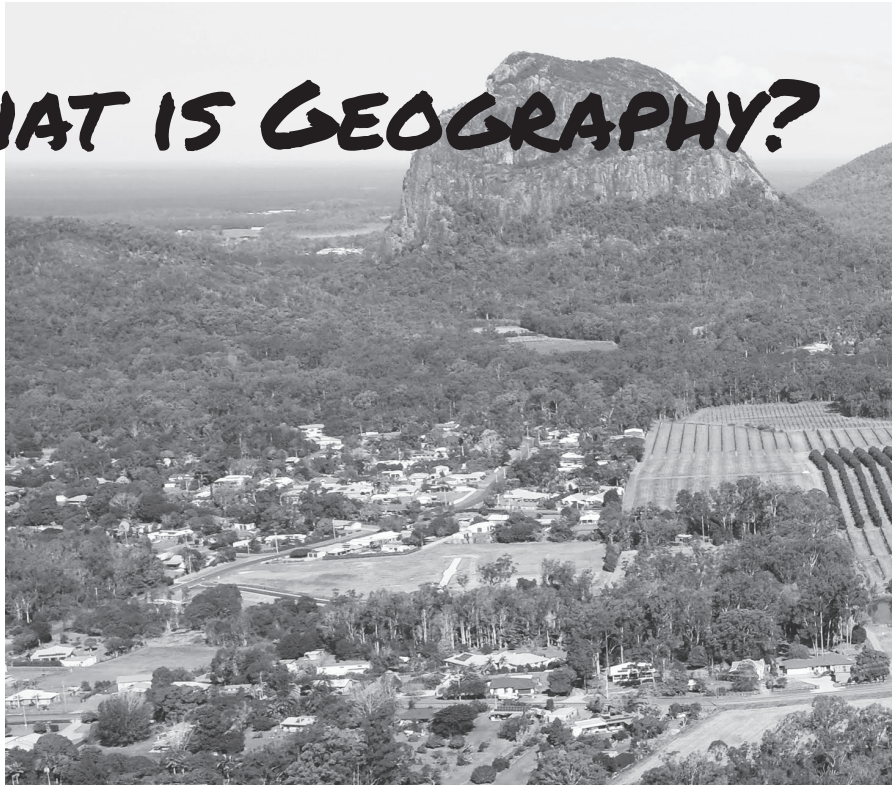
DEPARTMENT OF GEOGRAPHY
THE UNIVERSITY OF HONG KONG

UNDERGRADUATE HANDBOOK

2020-2021

Contents

What is Geography?



Geography is an integrative discipline that provides a dynamic understanding of our rapidly changing world. It involves both the natural and social sciences with a focus on the major issues facing human society. Geographers examine and investigate the relationships between people and their environment in terms of location, space, scale and time.

Geography is a holistic subject. Many of the most pressing challenges of our time involve geography. For instance, climate change, economic and regional development, globalization, natural hazards, public health, sustainable development, tourism, transportation and urbanization are all areas of study in which geographers are actively engaged. The field's genuine diversity of approaches is of great benefit to students, as geography provides insights into various issues that may not be possible in other disciplines.

Geography, as outlined in the subsequent sections, is able to offer students a wide-range of crucial and transferable subject-based skills. As such, it provides new challenges and know-how to students while preparing them for a diverse array of potential occupations.

About HKU Geography
The Department

The HKU GEOGRAPHY DEPARTMENT, with its long tradition of outstanding teaching and research, can be traced back to 1915 when a course in economic geography (in combination with economics) first entered the University curriculum. In 1931, the Department separated from the Department of Economics and was awarded its own separate office when a two-year curriculum in the discipline was established. In 1954, the Department of Geography and Geology was established, and later renamed the Department of Geography in 2000.

HKU Geography is the oldest geography department in Hong Kong. Thus far, the Department has trained more than 3,500 geography undergraduates who were awarded bachelor degrees, more than 850 postgraduates in taught master programmes (MA), 220 research post-graduates research degrees in Master of Philosophy (MPhil) and Doctor of Philosophy (PhD).

Living in a rapidly changing society, HKU Geography always undergoes regular reviews on its curricula and syllabuses in order to keep our students abreast of the most up-to-date knowledge and contemporary issues surrounding us in Hong Kong and in our changing world. Our well-designed geography courses are not only popular among students in the Faculty of Social Sciences, but also to students in the Faculties of Arts, Business and Economics, Education, Engineering, Law, Science and others.

In view of the increasing demand for higher education in recent decades, the Department launched the Master of Arts in Transport Policy and Planning Programme in 1997, which is the leading programme of its kind in Asia specializing in transport policy and planning. With the increasing demand for knowledge about China and her emerging global status, another taught master programme (Master of Arts in China Development Studies) was created in 2001. As an education provider, the Department's goal is to equip more professional and highly educated people to contribute to our society.

The Department of Geography will continue, as usual, to improve, excel and in expand in research, teaching and learning along with knowledge exchange. HKU Geography recently celebrated its 60th anniversary in 2014 and is expecting to celebrate many more in the future. Hopefully, you will be one of our future alumni to celebrate in these happy and memorable future events.

About HKU Geography
TEACHING STAFF

Last update: July 2020

The Department is comprised of fourteen full-time faculty members with sound academic backgrounds and substantial teaching experiences. Their research interests straddle a wide spectrum of specialties in human and physical geography.

HKU Geography teachers are not only working hard to provide high quality education, they are also dedicated to outstanding interdisciplinary research activities. Over the years, they were able to obtain major research funding from renowned agencies and schemes both in Hong Kong and overseas.

Moreover, we also have an experienced team of Honorary/Visiting professors with specialized expertise to enrich the teaching team.

Full-time Teaching Staff

Dr Mia M BENNETT
Assistant Professor

BA UCLA; MPhil Cambridge; PhD UCLA

Research Interests
The Arctic; Infrastructure Development; Belt & Road Initiative; Remote Sensing; Indigenous Capitalism

Dr Wendy Y CHEN
Associate Professor

BSc, MSc Zhongshan; PhD HKU

Research Interests
Ecological Economics; Environmental Economics; Valuation of Ecosystem Services; Urban Forestry; Environmental Science

Dr Ben A GERLOFS
Assistant Professor

BA Aquinas College; MA Syracuse; PhD Rutgers

Research Interests
Urban geography and political economy; Political ecology and catastrophic events; Historical geography and cultural landscapes; Ethnography and urban movements; Latin America, Mexico City, and the urban Western Hemisphere

Dr Benjamin L IAQUINTO
Assistant Professor

BSc (Hons) Monash, PhD Melbourne

Research Interests
Sustainable Tourism; Mobilities; Tourism Geography; Cultural Geography; Backpackers; Tourism Policy; Tourism and Climate Change

Dr Keumseok (Peter) KOH
Assistant Professor

BA, MA SNU; PhD MSU

Research Interests
Health/ Medical Geography; Geographic Information System (GIS); Urban Economics; System Science

Dr Raffaele LAFORTEZZA
Associate Professor

BSc, MSc, PhD Bari

Research Interests
Remote Sensing; Landscape Ecology; Spatial Modelling; Ecosystem Services; Green Infrastructure

Professor P C LAI
Professor

BES, MA, PhD Waterloo

Research Interests
Geographic Information Systems (Including Public and Environmental Health Applications); Cartographic Modelling and Spatial Analysis; Transportation Studies and Network Analysis

Dr Nicky Y F LAM
Associate Professor

BS, MS, PhD UTK; MHKIE

Research Interests
Climate change and air quality; Air pollution; Ozone air quality; Emission inventory development; Microsensor development

Dr Yongsung LEE
Assistant Professor

BS SNU; MUP UIUC; PhD,GA TECH

Research Interests
Sustainable Urbanization, Resilience, Information and Communication Technology, Shared Mobility, Autonomous Vehicle, Household/Firm Location Choice, Spatial Structure of Cities, Neighborhood Change, Gentrification, Migration Patterns

Dr Jinbao LI
Associate Professor

BS, MS Lanzhou; PhD Columbia

Research Interests
Climate Change; Paleo Climate; Drought; Dendrochronology; Forest Ecology

Professor George C S LIN
Chair Professor of Geography

BSc, MSc Sun Yat-sen; MA Akron; PhD Brit Col; Fellow of the Academy of Social Sciences UK (FAcSS)

Research Interests
Urban and Regional Development in China; Land Property Rights in China; Transnationalism and Chinese Diaspora; Social Geography of China; Public Policy and Regional Development; Economic Geography; Hong Kong-Guangdong Integration

Professor Becky P Y LOO
Professor and Head of Department

BA, PhD HKU; FCILT; Fellow of the Academy of Social Sciences UK (FAcSS)

Research Interests
Transportation Geography: Transport and Development; Sustainable Transportation; Road Safety Research; Surveys; Quantitative Spatial Analysis: Applied Geographic Information Systems; Global Development: Economic Geography; Travel Behavior Analysis

Dr Junxi QIAN
Assistant Professor

BSc Sun Yat-sen; PhD Edinburgh

Research Interests
Public Space; Urban Studies & Urban Theory; Indigenous People & Indigenous Modernity; Religion; Cultural Economic Geography; Place and Place Politics

Dr Lishan RAN
Assistant Professor

BA Lanzhou; MA CAS; PhD NUS

Research Interests
Riverine Carbon Cycle; Greenhouse Gas Emissions; Soil Erosion and Carbon Export; Chemical Weathering and CO2 consumption; Sediment Transport and River Channel Change

Dr Calvin P TRIBBY
Assistant Professor

BS, MS UNM; MPH Columbia; PhD OSU

Research Interests
Contextual and geospatial factors that influence health behaviors; Active transportation and health; Geographic Information Science; Spatial analysis and modeling

Dr Frank VAN DER WOUDEN
Assistant Professor

BSc, MSc Utrecht; PhD UCLA

Research Interests
Innovation; Collaboration; Technological Change; Cities; Impact of Distance on Socio-economic Activity; Computational Social Science; Economic Growth; Mobility; Network Science; Machine Learning

Dr Steven H S ZHANG
Assistant Professor

BE, ME SCNU; PhD CUHK

Research Interests
Smart Cities and Sustainable Development; Remote Sensing of Urban Environment; Remote Sensing of Wetlands; Multi-sensor Data Fusion

Research Assistant Professor and Post-doctoral Fellow

Dr Xun LI BSc Xiamen; Mphil, PhD HKU	Post-doctoral Fellow
Dr Yunjing LI BArch Tsinghua; MUP, PhD Columbia	Post-doctoral Fellow
Dr Hugo W L MAK BSc; PhD HKUST	Research Assistant Professor

Visiting, Honorary & Part-time Teaching Staff

Professor K C HO BSc (Hons) CUHK; MSc Salford; PhD HKU; MEd OUHK; FRSB, FHKAAST, Chartered Biol., MIWEM, FHKIEIA	Founding President, Hong Kong Academy of Environmental Science Founding Chairman and Director, Polar Research Institute of Hong Kong Honorary Professor, Department of Geography, HKU
Dr James H LENZER JR BSc OSU; MA, PhD HKU	Lecturer, Department of Geography, HKU Guest Lecturer, Department of Science and Environmental Studies, The Education University of Hong Kong
Professor Phyllis C M LI, BBS BA, MSc (Urban Planning) HK; FHKIP; MRTPI	Adjunct Professor, Department of Geography, HKU
Dr André MUELLER MSc, PhD RWTH Aachen University	Senior Adviser, Principal Investigator (Research) and Ad Hoc Team Leader, Federal Office for Building and Regional Planning Adjunct Assistant Professor, Department of Geography, HKU
Mr Kelvin SHUM Wing Lun BSc PolyU; MBA PolyU	Senior Director of Technology and Planning Department with Esri China (Hong Kong) Adjunct Assistant Professor, Department of Geography, HKU
Mr Cliff A SULLIVAN MSc, Salford University	Senior Vice President, LF Logistics Adjunct Assistant Professor, Department of Geography, HKU
Professor Winnie TANG PhD HKU, JP	Founder and Chairman of Esri China (Hong Kong) Limited, Adjunct Professor, Department of Geography, HKU Adjunct Professor, Department of Computer Science, Faculty of Engineering and Faculty of Architecture, HKU
Professor W H TSANG MSc Leeds; FCILT	Immediate Past President, The Chartere Institute of Logistics and Transport in Hong Kong Adjunct Professor, Department of Geography, HKU
Dr Ricci P H YUE BSc (Hons), MPhil, PhD HKU	Honorary Lecturer, Department of Geography, HKU

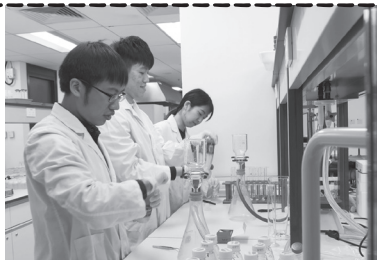
Geographic Information Systems (GIS) Laboratory

The GIS Laboratory is a well-managed teaching and research environment that integrates geographic data for mapping and spatial analysis. The laboratory supports undergraduate teaching by providing access to the latest GIS software, peripheral input-output devices and storage facilities. To encourage self-guided learning, the Department holds a campus license that grants students the right to install GIS software on their own laptop computers. The laboratory enables basic and applied research using different geospatial approaches at various geographic scales (street, block, neighborhood, nation and world). Dual-screen and high-performance workstations are available with equipment support from the University. Both research and taught postgraduates of the university community can seek access to the laboratory with the Head of Department's approval.

Geomorphology & Hydrology Laboratory

The Geomorphology & Hydrology Laboratory is equipped with instruments for the analysis of tree-ring, air quality and sediment samples, simulation work within the fields of geomorphology and hydrology, investigation of processes shaping landforms and associated tests to support the Department's research activities. Equipment includes stereomicroscopes, increment borer, sieving machine, filtering unit, water sampler, dust collector, BOD incubator and current velocity meter.

Soils & Biogeography Laboratory

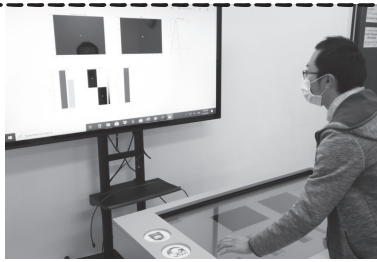


The Soils & Biogeography Laboratory is equipped to carry out research analyses of soil, sediment, water and inspection of wood decay in trees. Equipment includes: CHNS/O elemental analyzer, CO2/H2O gas analyzer, radon detector, rotary evaporator, sonic tomograph, sibert drill, solar radiometer, indoor air quality monitor and a wide range of field equipment. It provides an excellent environment for teaching and learning, as well as the Department's research works.

Map Library

The Department's Map Library is one of the most comprehensive of its kind in Hong Kong and nearby regions. It has a collection of almost 61,480 map items (with particular emphasis on Hong Kong and East & Southeast Asia); over 15,800 air photos (especially on Hong Kong); a sizeable number of atlases, wall maps, marine charts, satellite images, cartobibliographies, audio and video tapes and CD-ROMs. The library also houses more than 1,500 geography dissertations and postgraduate theses, completed from 1968 onwards. It has three map browsing stations for HKU users to search for relevant Hong Kong maps in support of teaching and learning as well as research work.

Urban & Transport Research Laboratory



Established since 2002, the Urban & Transport Research Laboratory provides support for advanced research about issues related to cities and transportation, including regional, national and international levels. The Laboratory is currently upgrading with advanced computing capacities and information technology facilities to support geospatial artificial intelligence and smart cities research. The facility is associated with the HKU Joint Laborartory on Future Cities and the global network of Global AI FutureCity Lab.

Geography Major at HKU

The "Geography" undergraduate curriculum is designed to assist students in learning and understanding geographical and environmental-related knowledge and issues within modern contexts and perspectives. It aims to provide students with an understanding of the relationships between people and the environment; how these relationships have changed with space and over the time; and the role of geography in investigating and analyzing the issues and problems facing people, places and society. The programme also gives students the opportunity to explore key elements of the knowledge and understanding embodied in the geography discipline; stimulate their intellectual interests and acquire discipline-specific and generic skills to enable them to pursue their chosen career path or to continue on with higher education.

Geography Major Programme Learning Outcomes (PLOs)

In order to meet the demands and challenges in this dynamic and ever-changing world, the Department has designed a series of well-structured and contemporary courses to cater to the different interests of students. It's courses are designed to align with the University's educational aims which hope to nurture future generations not only with a critical and intellectual mindset, but also with a passion to contribute to society in general.

After completing the programme, "Geography Major" students should be able to:

PLO1	critically analyze the geographical aspects of the relationship between people and the environment;
PLO2	demonstrate and develop an understanding of how these relationships have changed with space and over time;
PLO3	identify, collect and utilize primary and secondary data to investigate and analyze the issues and problems facing people, places and society;
PLO4	integrate, evaluate and communicate information from a variety of geographical and other sources;
PLO5	participate in promoting social, economic and environmental sustainability at the local, regional and global scales; and
PLO6	effectively apply a range of transferable skills in academic, professional and social settings.

How to become a Geography Major

To become a "HKU Geography Major", students are required to complete at least 96 credits of courses. Below is a summary of the number of credits required to become a Geography Major:

Components	No. of credits * Major	Minor
(1) Introductory course (Level 100)		
a) disciplinary	6	6
b) pre-requisites #	12	-
(2) Advanced courses (Level 200 or above)		
a) disciplinary method course(s)	6	-
b) disciplinary electives ^	36-42	30
c) capstone experience	6-12	-
d) Social Innovation and Global Citizenship ~	24	-
Total:	**96**	**36**

* Geography Major students are encouraged to take more number of credits beyond the minimum requirement.

\# Candidates who opt to declare two major programmes offered by the Faculty of Social Sciences should avoid selecting overlapping pre-requisites.

^ Geography Major students must take at least 18 credits of Level 300 or above disciplinary courses (excluding GEOG4001 Overseas field trip)

~ Candidates who opt to declare double majors in Geography, Politics and Public Administration, Psychology, Sociology and Social Work and Social Administration are allowed to undertake 24 credits of free electives, to fulfil the Faculty off-campus learning courses for the second major

Candidates who wish to MAJOR (96 credits) or MINOR (36 credits) in Geography must complete:

(1) Introductory course (18 credits for major; 6 credits for minor)

To be taken in Year 1-2

a) One disciplinary course from the following list:

Applicable to 2018-19 intake and thereafter

GEOG1002	Hong Kong: land people and resources #	**(6 credits)**
GEOG1003	Contemporary global environmental issues #	**(6 credits)**
GEOG1005	Map use, reading and interpretation #	**(6 credits)**
GEOG1012	Economic and social development in an urbanizing world	**(6 credits)**
GEOG1016	Nature conservation for sustainable societies	**(6 credits)**
GEOG1017	Human geography in a globalizing world	**(6 credits)**
GEOG1020	Modern maps in the age of big data #	**(6 credits)**
GEOG1021	Geographic issues of Polar Regions #	**(6 credits)**

b) Two pre-requisite courses from the following five units, but not more than one from a single unit (12 credits):

Faculty of Social Sciences
Politics and Public Administration
Psychology
Social Work and Social Administration
Sociology

(2) Advanced courses (78 credits for major; 30 credits for minor)

To be taken in Year 2-4

a) Disciplinary method courses (a minimum of 6 credits for major

Applicable to 2016-17 intake and thereafter

Geography majors should take one (or preferably two) of the following core methods-related courses:

GEOG2090	Introduction to geographic information systems	**(6 credits)**
GEOG2120	Introductory spatial analysis	**(6 credits)**
GEOG2130	Field methods in geography	**(6 credits)**
GEOG2137	Introduction to research design	**(6 credits)**
GEOG2141	Remote sensing applications	**(6 credits)**
GEOG2145	Introduction to disaster risk management techniques	**(6 credits)**
GEOG2146	Environmental modelling for climate change and air quality	**(6 credits)**
GEOG2147	Building smart cities with GIS	**(6 credits)**
GEOG2156	Geographical image processing techniques and analyses	**(6 credits)**
GEOG2157	Open-souce GIS	**(6 credits)**

Geography majors, once having met the 6 credits of core requirement, can take another course from the above list to fulfill the disciplinary elective requirement.

The above list of core courses is available to Geography minors or other students as electives.

b) Disciplinary electives (from 36 to 42 credits for major; 30 credits for minor)

These advanced elective courses are offered as Level 200, 300 and 400 courses to provide students with academic progression. Students are advised to take at least 18 credits of Level 200 courses (excluding 6 credits of core methods-related course) for their declared major.

c) Capstone experience (6 - 12 credits for major only, to be taken in Year 4)

GEOG4001	Overseas Field Trip * #	**(6 credits)**
GEOG4002	Directed Project in Geography	**(6 credits)**
GEOG4003	Honours Dissertation	**(12 credits)**

Geography majors are strongly recommended to take GEOG4001 Overseas field trip to reinforce experiential and contextual learning.

* In the event of time conflict with other required academic activities, the candidate can apply for deferring the overseas field trip participation towards the end of Year 4 of study before graduation (see the GEOG4001 course description for details).

For students who are double major in both Geography and Urban Governance, they have the following two options to fulfill the capstone experience (CE) requirements for both declared majors:

Option 1 - Take 'GEOG4001 Overseas field trip' (6 credits) to meet the CE requirement for the declared Geography major, and take 'GEOG4004 Directed project in urban governance' (6 credits) to meet the CE requirement for the declared Urban Governance major.

Option 2 - Take 'GEOG4001 Overseas field trip' (6 credits) to meet the CE requirement for the declared Urban Governance major, and take either 'GEOG4002 Directed project in geography' (6 credits) or 'GEOG4003 Honours dissertation' (12 credits) to meet the CE requirement for the declared Geography major.

d) Social innovation and global citizenship (24 credits)

<u>For BSocSc students (Faculty off-campus learning courses)</u>

Students are required to undertake 24 credits of off-campus learning under the twin themes Social Innovation and Global Citizenship as a condition of graduation. To fulfil the Social Innovation requirement, candidates must complete FOSS2018. To fulfil the Global Citizenship requirement, candidates must either complete FOSS2019, undertake 12 credits of advanced courses on exchange studies or on an overseas summer programme approved by the Faculty. Candidates may complete a maximum of 30 credits of experiential learning (internship) during their studies.

FOSS2018	Social Innovation Internship	**(12 credits)**
FOSS2019	Global Citizenship Internship	**(12 credits)**

<u>For non-BSocSc students</u>

Students are required to undertake 24 credits of courses listed under the Faculty of Social Sciences syllabuses, including the social sciences and non-social sciences courses.

SKILLS OBTAINED FOR GEOGRAPHY MAJORS

By completing a major in Geography, students will have been exposed to a range of skills that may be grouped into four general categories:

01.

Discipline-specific skills

including familiarity with a range of social survey and interpretive methods; technical and laboratory methods for analysis of spatial and environmental information including geographic information systems (GIS); interpretation and presentation of different types of geographical information/data.

02.

Intellectual skills

such as critical thinking, reasoning, problem solving, decision making and the integration of knowledge.

03.

Transferable skills

such as communication, information retrieval, data analysis / computation, data interpretation and mapping and IT.

04.

Personal/social skills

such as the ability to work independently and with others, time-management, awareness of responsibilities, motivation and an interest in lifelong learning.

Career Prospects for Geography Majors

01.

Students can use their geographic knowledge and skills to enter a career directly related to geography. For instance, urban and transport planning, tourism/recreation, conservation and teaching. Appropriate course selection from the earliest time of entry into the University is important in seeking a career using geography as a platform. Students are therefore encouraged to obtain advice from the Department's academic staff on selecting courses that are related to their career plan.

02.

The many skills that students have learned may provide entry to more general careers both in the private and public sectors. Geographers increasingly choose careers in information technology, finance, marketing and administration. In addition, the Royal Geographic Society has observed that employers are looking for graduates who are spatially, environmentally and socially aware.

03.

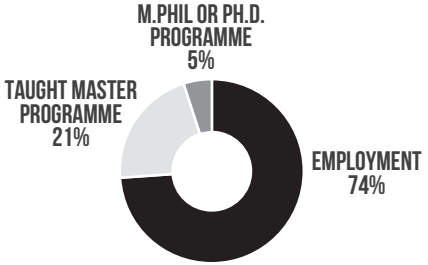
Geographers, like students from many other disciplines, are increasingly entering postgraduate study and training to gain the professional qualifications necessary for entry into some specialist professions. A major in Geography is appropriate for gaining admission into a variety of specialist postgraduate programmes ranging from environmental management, conservation, urban planning, transport/logistics, regional economics, teaching and so forth.

04.

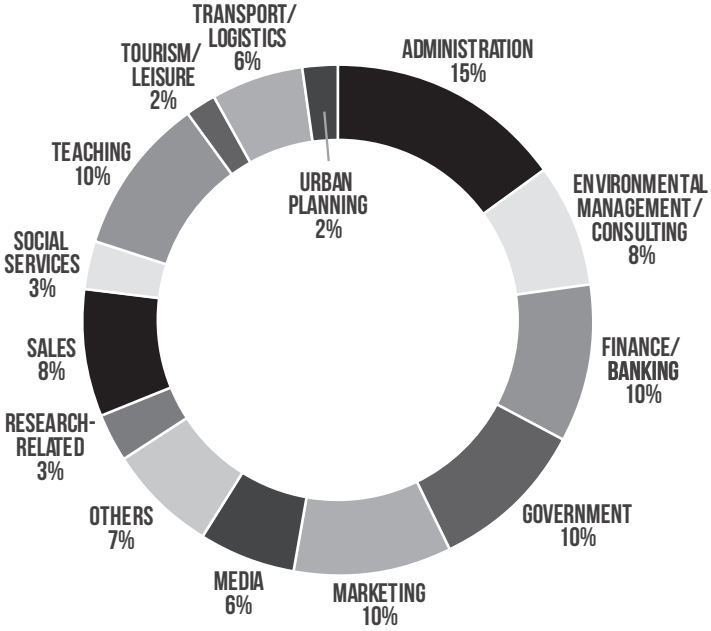
Students can make use of their training and skills in geography to become teachers in local secondary schools.

Career option for Geography graduates are very wide-ranging. There are 3 general options:

Jobs directly related to Geography	Jobs using transferable skills related to Geography in other careers	Continue in postgraduate study and training in Geography and other disciplines
• Urban/Transport Planning	• Administration / Government	• Administration / Government
• Environmental Consultancy	• Marketing & Sales / Media	• Marketing & Sales / Media
• Tourism/Recreation	• Finance / Banking	• Finance / Banking
	• Social Services	• Social Services
	• Tourism & Recreation	• Tourism & Recreation
	• Teaching	• Teaching
	• Others	• Others

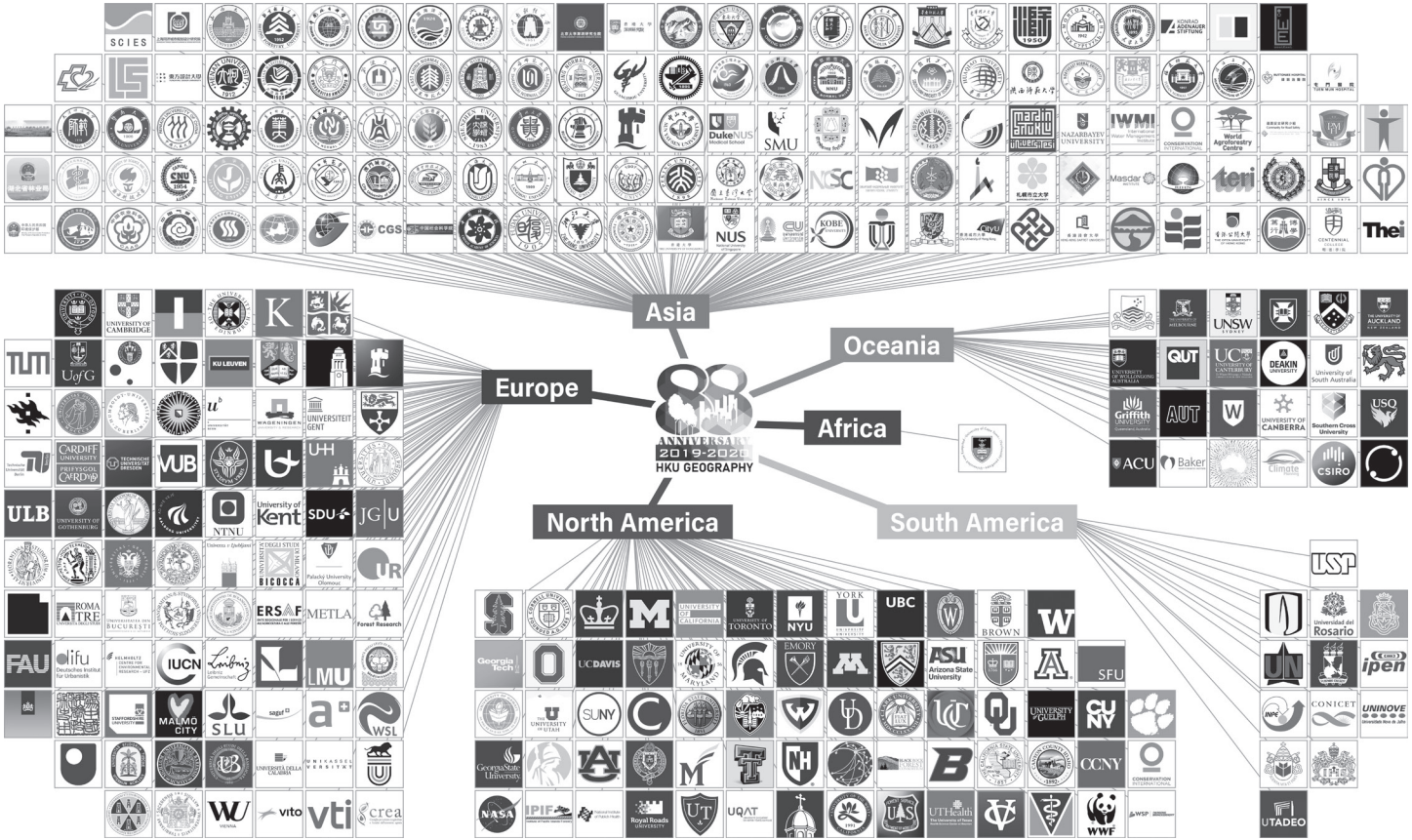


Career Development of Geography Majors



Employment of Geography Majors

HKU Geography's Strong International and Interdisciplinary Research Network



Note: Based on staff's joint publications since 2008. Last updated in June, 2019.

Research Strategy

Research Thematic Groups

China

China's rapid development over the last 40 years has had a number of significant impacts on the growth and spatial distribution of the global economy. A constant renewal of our understanding of China allows us to track and trace the many socio-economic structural shifts that occur. Hong Kong's unique geographical position within the Greater China region provides us with privileged access to the mainland and allows the department to create complimentary research opportunities for contemporary China studies.

Environment

Climate, hydrology, biogeography, and ecosystems in the natural environment are the primary foci in this thematic group. Through research such as tree-ring studies, air quality modelling, remote sensing of environmental issues, water quality and resource management fieldwork, and urban green infrastructure strategies for green cities, faculty members use their expertise to better understand abnormal climatic patterns, as well as to develop effective adaptations and mitigation measurements to preserve our fragile ecosystem and attain environmental sustainability for future generations.

Rapid urbanization has resulted in a massive shift socio-economically, culturally, and politically in urban transport planning and development in cities. With Hong Kong being a globally-recognized transport gateway to China and the world, on-going exploration is essential when examining and drawing on public discussions and policy recommendations to improve transport planning and design, mobility, resilience, and safety in the development of smart cities.

China	Environment	Urban & Transport
Dr. M. M. BENNETT	Mr C.N CHAN##	Dr B.A. GERLOFS
Miss L.S. HE#	Dr. W. Y. CHEN	Mr. Z.R. HUANG#
Mr. R.H. JIANG#	Miss Y.H. CHEN#	Dr. B. L. IAQUINTO
Dr Y.J. LI+	Mr S. CHEN#	Dr. K. KOH
Professor G. C. S. LIN*	Mr. J.M.H. CHIANG#	Professor P. C. LAI
Miss X.F. LIU#	Mr. R. CONG#	Dr Y.S. LEE
Mr. Y. H. LU#	Mr W.Y. HAN#	Miss T. LING #
Miss Z. Y. LYU#	Mr. J.T. JIN#	**Professor B. P. Y. LOO***
Dr. J. X. QIAN	Dr. R. LAFORTEZZA	Mr. K.C. TANG#
Miss. S. WEI#	Ir. Dr. Y. F. LAM	Dr C.P.TRIBBY
Miss M.D. WU#	**Dr. J. B. LI***	Mr. K. H. TSOI#
Dr. H. S. ZHANG	Dr X. LI+	Dr Frank VAN DER WOUDEN
Mr. H. ZHANG#	Miss Y. LIN#	Ms. R.W.M. WONG#
	Mr. B.Y. LIU#	Miss. P.S. YU##
	Dr. L. S. RAN	Mr. F. Y. ZHANG#
	Miss Y.N. SU#	
	Miss Y. X. WANG##	
	Mr. Z. WANG#	
	Mr. X. ZHANG#	

* Research Thematic Group Coordinator
+ Postdoctoral Fellow
# PhD student
MPhil student

Q1[IF2017] research publications (in alphabetical order) by faculty members, from 2008 to 2018.

China

1. Annals of the American Association of Geographers
2. Annals of Tourism Research
3. Applied Geography
4. Asia Pacific Viewpoint
5. China Quarterly
6. Cities
7. Cultural Geographies
8. Dialogues in Human Geography
9. Ecosystem Services
10. Environment and Planning D: Society and Space
11. Eurasian Geography and Economics
12. Geoforum
13. Geographical Journal
14. Habitat International
15. Journal of Contemporary China
16. Journal of Economic Geography
17. Journal of Environmental Management
18. Journal of Ethnic and Migration Studies
19. Journal of International Economic Law
20. Journal of Planning Literature
21. Journal of Rural Studies
22. Land Use Policy
23. Landscape and Urban Planning
24. Progress in Human Geography
25. Regional Studies
26. Urban Forestry & Urban Greening
27. Urban Geography
28. Urban Studies

Environment

1. Ambio
2. Agricultural and Forest Meteorology
3. Annals of Forest Science
4. Annals of the American Association of Geographers
5. Applied Energy
6. Applied Geography
7. Asia Pacific Viewpoint
8. Biogeosciences
9. Biological Conservation
10. Biological Invasions
11. Catena
12. Cities
13. Climate Dynamics
14. Climate Policy
15. Climatic Change
16. Critical Reviews in Environmental Science and Technology
17. Ecological Economics
18. Ecological Indicators
19. Energy Policy
20. Environmental Politics
21. Environmental Research
22. Environmental Research Letters
23. Environmental Science & Policy
24. Environmental Science & Technology
25. Environmental Values
26. Eurasian Geography and Economics
27. European Journal of Forest Research
28. Forest Ecology and Management
29. Frontiers in Plant Science
30. Geoforum
31. Geographical Journal
32. Geomorphology
33. Geophysical Research Letters
34. Global and Planetary Change
35. Global Biogeochemical Cycles
36. Global Change Biology
37. Global Ecology and Biogeography
38. Global Environmental Politics
39. Hydrological Processes
40. Journal of Cleaner Production
41. Journal of Climate
42. Journal of Ecology
43. Journal of Economic Surveys
44. Journal of Environmental Management
45. Journal of Geophysical Research
46. Journal of Geophysical Research: Biogeosciences
47. Journal of Hydrology
48. Journal of Integrative Plant Biology
49. Journal of Sustainable Tourism
50. Land Use Policy
51. Landscape and Urban Planning
52. Landscape Ecology
53. Nature
54. Nature Climate Change
55. Nature Communications
56. Palaeogeography, Palaeoclimatology, Palaeoecology
57. PloS One
58. Public Understanding of Science
59. Quaternary Science Reviews
60. Remote Sensing of Environment
61. Science Bulletin
62. Science of the Total Environment
63. Scientific Reports
64. Sustainable Development
65. Urban Forestry & Urban Greening

Urban & Transport

1. Accident Analysis and Prevention
2. Annals of the American Association of Geographers
3. Applied Geography
4. Building and Environment
5. Cities
6. Computers Environment and Urban Systems
7. Current Opinion in Environmental Sustainability
8. Energy Policy
9. Environment International
10. Environmental Pollution
11. Food Security
12. Futures
13. Geoforum
14. Habitat International
15. Health & Place
16. Injury Prevention
17. Journal of Cleaner Production
18. Journal of Regional Science
19. Journal of Sustainable Tourism
20. Journal of Transport Geography
21. Journal of Trauma: Injury Infection and Critical Care
22. Journal of Urban Technology
23. Lancet
24. Land Use Policy
25. Landscape and Urban Planning
26. Respirology
27. Science of the Total Environment
28. Scientific Reports
29. Social Science & Medicine
30. Telecommunications Policy
31. Tourism Management
32. Transport Reviews
33. Transportation
34. Transportation Research Part A: Policy and Practice
35. Transportation Research Part D: Transport and Environment
36. Tunnelling and Underground Space Technology
37. Urban Geography
38. Urban Studies

ISI-listed regional and international journal editorial board memberships (in roles) of faculty members, 2010 to present.

No	Name of Journal	Type of Editorship	Regional/ International
1	Travel Behaviour and Society	Founding Co-Editor-in-Chief	International
2	Urban Forestry & Urban Greening	Co-Editor-in-Chief	International
3	Progress in Physical Geography	Editor	International
4	Eurasian Geography and Economics	Associate Editor	International
5	iForest – Biogeosciences and Forestry, SISEF	Associate Editor	International
6	Journal of Transport Geography	Associate Editor	International
7	Transportmetrica A: Transport Science	Associate Editor	International
8	Transportmetrica B: Transport Dynamics	Associate Editor	International
9	Urban Ecosystems	Associate Editor	International
10	Urban Forestry & Urban Greening	Associate Editor	International
11	IEEE Transactions on Geoscience and Remote Sensing	Topical Associate Editor	International
12	Annals of the American Association of Geographers	Editorial Board Member	International
13	Applied Geography	Editorial Board Member	International
14	Canadian Geographer	Editorial Board Member	International
15	Chinese Geographical Science	Editorial Board Member	International
16	Cities	Editorial Board Member	International
17	Forest Ecology and Management	Editorial Board Member	International
18	International Journal of Shipping and Transport Logistics	Editorial Board Member	International
19	International Journal of Sustainable Transportation	Editorial Board Member	International
20	Journal of Arid Land	Editorial Board Member	International
21	Journal of Contemporary China	Editorial Board Member	International
22	Journal of Tourism and Cultural Change	Editorial Board Member	International
23	Journal of Transport and Land Use	Editorial Board Member	International
24	Journal of Transport Geography	Editorial Board Member	International
25	Journal of Urban Technology	Editorial Board Member	International
26	Landscape and Urban Planning	Editorial Board Member	International
27	Landscape Ecology	Editorial Board Member	International
28	Transactions of the Institute of British Geographers	Editorial Board Member	International
29	Transportation	Editorial Board Member	International
30	Travel Behaviour and Society	Editorial Board Member	International
31	Urban Geography	Editorial Board Member	International
32	Geographical Research 地理研究 (Chinese Academy of Sciences, CAS; Institute of Geographic Sciences and Natural Resources Research 中國科學院地理科學與資源研究所)	Editorial Board Member	Regional

List of Geography Courses Offered in 2020-2021

Last update: SEP 2020

Course		Page	Timetable Arrangement
GEOG2143	Planning in an Era of Changes	**55**	**A; 2**
GEOG2144	The Evolution of Transport Policy in Hong Kong	**56**	**A; 2**
GEOG2145	Introduction to Disaster Risk Management Techniques #	**57**	**A; 2**
GEOG2146	Environmental Modelling for Climate Change and Air Quality #	**58**	**A; 2**
GEOG2147	Building Smart Cities in GIS #	**59**	**A; 1**
GEOG2148	Transport Accessibility in Europe	**60-61**	**A; 2**
GEOG2149	Financial Geography	**62**	**A; 2**
GEOG2150	Introduction to China's Environmental and Sustainable Development Issues	**63**	**A ;1**
GEOG2152	Health and Medical Geography	**64**	**A; 2**
GEOG2153	Smartphones, K-pop, and Kimchi: South Korea Beyond the Miracle	**65**	**A ;1**
GEOG2154	Healthy Food, Place, and Sustainability	**66**	**A; 1**
GEOG2155	Introduction to Air Freight Logistics and Transport	**67**	**A; 2**
GEOG2156	Geographical Image Processing Techniques and Analyses #	**68**	**A; 1**
GEOG2157	Open-source GIS #	**69**	**A; 2**
GEOG2158	Urban Sustainability and Climate Governance	**70**	**A; 2**
GEOG2159	Transport Investment	**71-72**	**A; 2**
GEOG3104	Globalizing China: Development Issues	**73**	**A; 2**
GEOG3202	GIS in Environmental Studies	**74**	**A; 2**
GEOG3203	Climate Change and the Environment	**75**	**A; 2**
GEOG3204	Urban Hydrology and Water Quality	**76**	**A; 1**
GEOG3207	Environmental Management: Impact Assessment	**77**	**A; 1**
GEOG3213	Ecosystem Services and Sustainable Society	**78**	**A; 1**
GEOG3214	Corporate Social Responsibility and Environmental Auditing	**79**	**A; 1**
GEOG3304	Tourism Policy and Planning	**80**	**A; 2**
GEOG3403	Urban Planning in Practice in South Korea	**81**	**A; 1**
GEOG3414	Cultures, Social Justice and Urban Space	**82**	**A; 2**
GEOG3420	Transport and Society	**83**	**A; 1**
GEOG3422	Contemporary Urban Transportation Issues	**84**	**A; 2**
GEOG3423	Urban Studies: Social and Cultural Perspectives	**85**	**A; 1**
GEOG3424	Urban Development and Planning: the Hong Kong Experience	**86**	**A; 1**
GEOG3425	Cities of the Western Hemisphere	**87**	**A; 2**
GEOG3426	Networks and Geography: An Introduction to Social Network Analysis	**88**	**A; 2**

CAPSTONE EXPERIENCE COURSES

GEOG4001	Overseas Field Trip	**89**	**A; U**
GEOG4002	Directed Project in Geography	**90**	**A; FY**
GEOG4003	Honours Dissertation	**91**	**A; FY**
GEOG4004	Directed Project in Urban Governance	**92**	**A; FY**

Timetable Arrangement: **A** = Annual **S1** = First Semester **S2** = Second Semester **FY** = Full-year **U** = University Vacations

GEOG1003 Contemporary Global Environmental Issues

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Jinbao LI

OBJECTIVES: This course introduces a number of major global environmental issues and links them to contemporary socio-economic and political considerations while maintaining a geographical perspective.

COURSE SYNOPSIS: Recent decades have been characterized by increasing awareness of environmental issues and the need to come to terms with them. This course will examine, in turn, many of the current major environmental issues related to the atmosphere, hydrosphere, lithosphere, and biosphere as well as looking at major threats posed by the environment itself in the form of natural hazards. In addition, the issue of a potential nuclear threat and the ever-increasing demand for energy are explored. Finally, the matter of sustainable development and intelligent management of the planet for present and future generations is addressed.

LECTURE TOPICS:
- Climate change: Evidence, causes, and consequences
- Water resources and pollution
- Human impacts on the Earth's surface and oceans
- Natural hazards
- Other contemporary global environmental issues

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 4 individual bi-weekly essays
- 1 individual project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	gain general knowledge about a number of major global environmental issues	✔	✔					Bi-weekly essays, project & exam
2	understand the linkages among the knowledge and to contemporary socio-economic and political considerations	✔	✔		✔			Bi-weekly essays, project & exam
3	achieve a geographical perspective on those issues in CLO 1 & 2	✔	✔		✔			Bi-weekly essays, project & exam
4	acquire reading and writing skills	✔			✔			Bi-weekly essays, project & exam
5	think critically about global environmental issues and their context	✔	✔		✔			Bi-weekly essays, project & exam
6	work independently toward discovering and finalizing a research project	✔	✔	✔	✔		✔	Project

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Harris, F. (2012) Global Environmental Issues, 2nd edition. Hoboken, NJ: Wiley-Blackwell.
- Middleton, N. (2018) The Global Casino: An Introduction to Environmental Issues, 6nd edition. London: Rutledge.
- Houghton, J. (2009). Global Warming: The Complete Briefing, 4th edition. Edinburgh: Cambridge.
- Pickering, K. & Owen, L. (1997). An Introduction to Global Environmental Issues, 2nd edition. London and New York: Rutledge.

GEOG1005 Map Use, Reading and Interpretation

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor P C LAI

OBJECTIVES: A major objective of the course is to provide students with a factual basis for making intelligent decisions concerning the use and interpretation of maps. A secondary objective is to stimulate interest in cartographic issues that play a vital role in modern development, such as Geographic Information Systems, and to enhance computer literacy. It is important that Geography students understand the principles of map design and how to analyze map products.

COURSE SYNOPSIS: Maps have been used for centuries to describe spatial patterns and portray association and correlation. Recent developments in digital spatial data handling have changed the environment where maps are used. Maps are no longer confined to the printed format. The objective of this course is to provide an integrated discussion of standard planimetric maps, their uses, and the basic skills necessary to take full advantage of these maps. The lectures will cover fundamental concepts underlying different mapping/analytical techniques, their strengths, limitations, and application settings. The practicals will be devoted to imparting essential computer operating skills to visualize spatial data. Coursework assessment comprises one in-class quiz and five practical exercises. An examination of multiple-choice and short-answer questions will be administered during the examination period.

LECTURE TOPICS:
- Introduction to maps
- Cartographic representation and map projections
- Map reading and design
- Map interpretation
- Beyond map symbols

PRACTICALS:
- 5 laboratory practicals

ASSESSMENT:

Examination 40%
- 1.5 hours

Coursework 60%
- 1 in-class quiz
- 5 individual computer-based practical exercises

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand some principles of map making			✔			✔	In-class quiz, practical exercises & exam
2	know some map design considerations						✔	In-class quiz, practical exercises & exam
3	acquire map reading and interpretation skills		✔				✔	In-class quiz, practical exercises & exam
4	gain word processing, IT, graphics, and design skills				✔		✔	Practical exercises & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Campbell, J. (2001). Map Use & Analysis. Boston: McGraw-Hill.
- Dodge, M. Kitchin, R.& Perkins, C. Eds. (2011). The Map Reader: Theories of Mapping Practice and Cartographic Representation. Hoboken, NJ: Wiley. [Electronic Resource] Chapters 1.2, 1.6, 2.7, 3.4*, 3.6, 3.7, 3.8* (* indicates most relevant)
- Kimerling, A.J., Buckley, A.R., Muehrcke, P.C. & Muehrcke, J.O. (2016). Map Use: Reading, Analysis, interpretation. Eighth edition. Redlands, CA: ESRI Press.

GEOG1012 Economic and Social Development in an Urbanizing World

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Frank VAN DER WOUDEN

OBJECTIVES: Understanding our globalizing world, from human-geography approaches, with special emphasis on urban, economic and social issues.

COURSE SYNOPSIS: This course introduces students to the processes and spatial patterns of economic development and social changes in an increasingly urbanizing world. Important subjects to be discussed include the geographical dynamics of economic development, the trend of economic globalization versus local development, the location issue in various economic sectors, geopolitics and the new world order, as well as social and environmental concerns in the urbanization process. Emphasis will be placed on the geographical explanation of economic development and emerging urban issues in this rapidly changing world.

Students will write short weekly reflections of an assigned reading, an essay and an exam.

LECTURE TOPICS:
- New geographies of development
- Global vs. local and states vs. multi-national corporations
- Capitalist market economy & free trade
- Foreign Direct Investment & Multi-national corporations
- Global Capital and Finance
- Migration & Labor
- Geo-politics
- Economic Growth & Development
- Environmental Issues of Development
- Winners & losers in a globalizing and urbanizing world

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 10 individual weekly reflections
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have comprehensive vision of globalization	✔				✔		Weekly reflections, essay & exam
2	gain an understanding of global-local interactions and their impacts on our daily life		✔					Weekly reflections, essay & exam
3	understand basic process of urbanization and its variations and impacts		✔					Weekly reflections, essay & exam
4	associate world development with local development issues					✔	✔	Weekly reflections, essay & exam
5	achieve an awareness of local specific development trajectories		✔					Weekly reflections, essay & exam
6	comprehend basic perspectives of urban geography and economic geography			✔				Weekly reflections, essay & exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:
- Knox, P., Agnew, J. and L. McCarthy 2007 (5th ed.) The Geography of the World Economy. London: Hodder

GEOG1016 Nature Conservation for Sustainable Societies

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Raffaele LAFORTEZZA, Dr Jinbao LI (Co-ordinator) & Dr Lishan RAN

OBJECTIVES: The course adopts a synoptic and critical survey of human interactions with nature and natural resources, the attendant problems of their misuse and overuse, and the enlightened approaches to nature conservation to contribute towards sustainable societies.

COURSE SYNOPSIS: The consumption of the Earth's resources has reached an alarming level, bringing intensive and pervasive deleterious impacts. This course surveys the major issues related to human-nature interactions, their current status as well as prognosis for the future. A synoptic view on the cultural roots of the exploitative utilization of our planet sets the backdrop for a systematic assessment of the diverse but interrelated components of the resource system. Major natural resources such as water, soil, forest and biodiversity are mainly discussed at the global scale in the light of their uses and misuses in different human societies, and the possibility for a more enlightened approach towards a sustainable future. Adopting a non-technical approach, this course appeals to students with a background in humanities, social sciences or science disciplines.

LECTURE TOPICS:

- Natural resources and sustainable development
- Non-renewable and renewable resources
- Sustainable management of forests
- Land degradation and sustainable management
- Water resource and its sustainable management
- Biodiversity richness and its sustainability

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual term paper

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	assess limitations and fragility of the Earth's natural resource base	✔						Term paper & exam
2	evaluate human misuse and mismanagement of natural resources and prognosis of environmental future		✔					Term paper & exam
3	analyse changes in resource ethics to conserve natural resources to sustain future human needs						✔	Term paper & exam
4	establish a comprehensive and holistic perspective of human tenure on Earth				✔	✔		Term paper & exam
5	realize that the Earth is both a source and a sink in satisfying human needs				✔			Term paper & exam
6	develop critical and independent thinking on the stressed relationship between humans and Mother Earth				✔		✔	Term paper & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Withgott, J., & Brennan, S.R. (2007). Essential Environment: The Science Behind the Stories. San Francisco: Pearson Benjamin Cummings.
- Chiras, D.D. & Reganold, J.P. (2014) Natural Resource Conservation: Management for a Sustainable Future, 10th edition. Pearson Education, Upper Saddle River, New Jersey.
- Wright, R.T. & Boorse, D.F. (2014) Environmental Science: Toward a Sustainable Future (International Edition). Pearson Education, Boston.

GEOG1017 Human Geography in a Globalizing World

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor George C S LIN

OBJECTIVES: The course aims to enhance students' understanding of the links between environmental conditions and human activities including culture, economy and society.

COURSE SYNOPSIS: This is an introductory course about the processes and spatial patterns of human population, settlements and culture in a globalizing world. Important subjects to be discussed will include the main themes of human geography as a spatial science, geography of population and migration, technological innovation and cultural diffusion, the changing cultural landscape, human impacts on the natural environment and changing geography in major world regions. Emphasis will be placed on the interaction between human society and the natural environment.

LECTURE TOPICS:

- Themes and fundamentals of human geography
- Human geography in a globalizing world
- Human population and migration
- Human settlements: Location and distribution
- Human culture: Languages and religions
- Human development: Measurement and explanation
- Human impacts on the natural environment

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	appreciate the distinctiveness of geography as a scientific discipline	✔						Exam
2	be awareness of the competing interpretations of the causes and consequences of globalization				✔			Exam
3	assess the theories and models of the growth and spatial distribution of population			✔				Essay
4	understand the regularity and logic of the growth and locations of human settlements		✔					Essay & exam
5	analyze the distribution of human culture and its relationship with the environment	✔						Essay
6	identify and explain the spatial patterns of human population and settlement			✔			✔	Essay
7	compare and contrast human culture between different places		✔					Essay & exam
8	critically analyze the theorization of human-environment relationships	✔						Exam
9	analyze maps, tables, and graphs						✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Fellmann, J., Getis, A., & Getis, J. (2014). Human Geography: Landscapes of Human Activities. New York, USA: McGraw-Hill.
- Knox, P.L., & Marston, S.A. (2014). Places and Regions in Global Context: Human Geography. Upper Saddle River, New Jersey: Prentice Hall.

GEOG1020 Modern Maps in the Age of Big Data

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Steven Hongsheng ZHANG

OBJECTIVES: This course generally introduces the main features of modern maps, the characteristics of big data, the opportunities and challenges, and the basic principles for producing and applying modern maps in the age of big data.

COURSE SYNOPSIS: Maps have been widely used in our everyday work-life activities, while modern maps, such as photo-realistic streetscape maps available on the Internet and dynamic/interactive maps with changing 3D views, which are made possible with big data, i.e., extremely large datasets relating to human behavior and social interaction captured with modern positioning and affordable mobile devices, are making our daily life more convenient and our work more efficient. This course introduces the main features of modern maps, the characteristics of big data, the opportunities and challenges, and the basic principles for producing and applying modern maps in the age of big data.

LECTURE TOPICS:
- Maps history and modern maps
- Spatial big data
- Interactive maps
- 3-Dimensional maps
- GPS and satellites
- Spatial database

ASSESSMENT:

Examination 40%
- 1.5 hours

Coursework 60%
- 2 lab exercises
- 1 individual project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have an overview of the history of maps and the emerging of modern maps	✔		✔			✔	Final exam
2	gain comprehensive knowledge about the theory on the spatial big data in the big data era	✔		✔	✔		✔	Lab exercise, individual project & final exam
3	understand different techniques of interactive maps and gain related mapping skills	✔	✔	✔	✔	✔	✔	Lab exercise, individual project & final exam
4	understand the state-of-the-art technologies for modern maps using various satellites	✔	✔	✔	✔	✔	✔	Lab exercise, individual project & final exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Crampton, Jeremy W. Mapping: A critical introduction to cartography and GIS. Vol. 11. John Wiley & Sons, 2011.
- Jiang, Zhe, and Shashi Shekhar. Spatial big data science. Schweiz: Springer International Publishing AG, 2017.
- Kennedy, Michael. The Global Positioning System and ArcGIS. CRC Press, 2009.
- Kraak, Jan-Menno, and Allan Brown. Web cartography. CRC Press, 2014.
- Kumar, Dilip, Ram Babu Singh, and Ranjeet Kaur. Spatial information technology for sustainable development goals. Cham: Springer, 2019.
- Peterson, Michael P. Interactive and animated cartography. Prentice Hall, 1995.

GEOG1021 Geographic issues of Polar Regions

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor K C HO

OBJECTIVES: The course will provide students with knowledge related to the geographic significance of the Polar Regions and lead students to discuss issues relevant to the sustainability of the Arctic and Antarctic areas. Students will be developed with practical ideas which contribute to environmental management of the Polar Regions as well as environmental responsibilities of their future careers.

COURSE SYNOPSIS: Polar Regions cover the Arctic and Antarctic areas of the Earth. These mysterious places were the focus of exploration and colonial contest in the early 20th Century. Today, Polar Regions are internationally co-administrated and where scientists of different countries are allowed to station and conduct research. The regions hold about 90% of the world's freshwater resources mainly in the forms of glaciers, icebergs and ice-caps. It is known that rising temperatures are the causes of changing global climates, oceanographic currents, biomes and carbon reserve. As human activities are increasingly affecting Polar Regions which are environmental sensitive and vulnerable, it is important to understand these interrelationships and what can be done to protect the tundra. The course provides fundamental knowledge and discusses the geographic significance and issues related to future management of the Polar Regions.

LECTURE TOPICS:

- Overview of polar exploration and history of discovery
- Core scientific and social knowledge of polar regions
- Significance of the polar regions with regard to climate, oceanographic changes, biome and environmental sustainability
- Natural resources in polar regions
- Recent development of polar regions with regard to human activities and impacts
- Challenges and opportunities of global climate change with particular attention to polar regions
- Innovation of polar research and development
- Environmental sustainability of polar regions

ASSESSMENT:

Examination 40%

- 1.5 hours

Coursework 60%

- Short questions
- 1 short essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	describe and analysis the geographic significance of Polar Regions	✔	✔		✔			short questions, short essay & exam
2	associate Polar Regions with the causes and impacts of global climate change	✔	✔		✔	✔		short questions, short essay & exam
3	discuss the environmental issues of Polar Regions and their relevance to human society	✔	✔	✔	✔	✔	✔	short questions, short essay & exam
4	develop practical and innovative ideas with regard to environmental stewardship	✔	✔	✔	✔	✔	✔	Short questions, essay & exam
5	contribute to sustainability for their future careers with particular reference to innovations and social responsibilities	✔	✔	✔	✔	✔	✔	Short questions, essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Stone, D. P. (2015) The Changing Arctic Environment – The Arctic Messenger. Cambridge University Press. ISBN 978-107-09441-3
- Walton, D. W. H. (Ed.) (2013) Antarctica – Global Science from a Frozen Continent. Cambridge University Press. ISBN 978-1-107-00392-7

GEOG2004 Atmospheric Environment and Global Climate

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Jinbao LI

OBJECTIVES: This course provides a general introduction to the atmospheric environment in terms of the processes and interactions which take place and the resulting temporal and spatial manifestations in climate on Earth.

COURSE SYNOPSIS: This course is divided into three major sections. In the first, the basic characteristics and features of the atmospheric environment are examined from the viewpoint of the basic physical and dynamical processes which occur in the atmosphere and between the atmosphere and the underlying surface. In the second, both the spatial and temporal dimensions of the resulting climate are explored at a range of scales to provide an understanding of the link between the processes occurring in the climate system and the diversity of climatic conditions which occur on Earth. In the last section, the interaction between humans and the climate system is explored. Various means of reconstructing and modelling the climate system are examined with a view to understanding the nature of past climates and the variety of potential future climates that might be possible.

LECTURE TOPICS:
- Physics and dynamics of the atmosphere
- Climate regionalisation
- Global climate: Past, present and future
- Basic statistics and KNMI Climate Explorer

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 4 individual lab exercises
- 1 individual presentation
- 1 individual project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	gain general knowledge about the atmosphere and atmospheric processes	✔	✔		✔			Lab exercises, oral presentation, project & exam
2	understand the spatial and temporal patterns of climate on Earth	✔	✔		✔			Lab exercises, oral presentation, project & exam
3	understand of the past, present and future changes in global climate	✔	✔		✔			Lab exercises, oral presentation, project & exam
4	acquire critical reading and writing skills			✔		✔	✔	Lab exercises, oral presentation, project & exam
5	develop data analysis/interpretation skills			✔		✔	✔	Lab exercises & project
6	think critically about the way in which the atmosphere works	✔	✔	✔	✔			Lab exercises, oral presentation, project & exam
7	think critically about climate change and its consequences	✔	✔	✔	✔	✔		Lab exercises, oral presentation, project & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Lutgens, F.K., & Tarbuck, E.J. (2014). The Atmosphere: An Introduction to Meteorology, 12th edition. New Jersey: Pearson Prentice Hall.
- Houghton, J. (2009). Global Warming: The Complete Briefing, 4th edition. Edinburgh: Cambridge.
- Oliver, J., & Hidore, J. (2002). Climatology: An Atmospheric Science, 2nd edition. Prentice Hall.

GEOG2013 Sustainable Development

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Yongsung LEE

OBJECTIVES: The course aims to enhance students' understanding of the links between environmental protection and economic development, and issues relating to sustainable development.

COURSE SYNOPSIS: This course evaluates the links between environmental protection and economic development. The world must manage its natural and environmental resources to meet the human needs of the present while at the same time preserving these resources for future generations. The course introduces students to different views on how human society can achieve the goal of economic growth without depleting the Earth's capital and jeopardizing the planet's life support system. It aims to enhance students' understanding of the issues relating to sustainable development. Although the course cannot provide complete answers to the issues, it helps develop students' ability of critical thinking and suggest promising directions in which answers may be sought.

LECTURE TOPICS:
- Ecosystem services: conceptualization
- Ecosystem services: classification
- Urban ecosystem services and disservices
- Ecosystem services economics
- Ecosystem services mapping

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 small group project
- 1 small group field trip report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	know the links between social, environment and economic development	✔	✔					Exam
2	understand the concept of sustainable development and its applications	✔	✔					Exam
3	recognise various issues related to sustainable development			✔				Project, field trip report & exam
4	learn potential solutions to sustainable development				✔		✔	Project, field trip report & exam
5	think critically about various issues related to sustainable development	✔		✔				Project, field trip report & exam
6	evaluate critically the present state of development, both at local and global levels, based on the sustainable development concept					✔	✔	Project, field trip report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Blewitt, J.(2015) Understanding sustainable development. London. 2nd ed., Sterling, VA:Earthscan, 2008.
- Elliott, J.A. (2012) An Introduction to Sustainable Development. 4th ed., London: Routledge.
- Sachs, J. D. (2015). The age of sustainable development. Columbia University Press.
- Beatley, T., & Wheeler, S. M. (Eds.). (2014). The sustainable urban development reader. 3rd ed., London: Routledge.

GEOG2018 Transport Geography

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Calvin P TRIBBY

OBJECTIVES: This course provides an understanding of the spatial structures and development of transport systems from a people-oriented geographical approach.

COURSE SYNOPSIS: This course provides an understanding of the spatial structures and development of transport systems from a people-oriented geographical approach. This approach emphasizes the role of people in determining the evolution and use of transport systems and the role of the transportation systems in serving and changing our daily life through improving accessibility and mobility. The course will cover the fundamentals of geographical analysis on transport, briefly introduce transport planning, and cover sustainable transport. Case studies of public transport, walking and bicycling, and freight transport networks provide explanations about the mechanisms and dynamics of transport systems in different geographical situations, and how they interact with local and global development.

LECTURE TOPICS:

- Fundamental aspects of transportation geography
- Introduction to the evolution of transportation systems
- Issues of transport and development
- Transport planning: introduction to modeling
- Geographical analysis of transport system analysis by mode
- Geographical scales and issues of intermodal transport
- Information and communication technologies (ICTs) and travel behaviour
- Sustainable transport, pollution and energy
- Sustainable transport and climate change

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 group research project
- 1 individual research essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand transport as a key element in development at any geographical scale		✔					Group research project, research essay and examination
2	comprehend individual modes of transport and their role in changing mobility and accessibility patterns				✔			Group research project, research essay and examination
3	understand the vast impact of transport on globalisation and sustainable development	✔				✔		Group research project, research essay and examination
4	use basic methodologies of geographical analysis of transport systems						✔	Group research project, research essay and examination
5	decompose a complicated real-world system from different perspectives				✔			Group research project, research essay and examination
6	comprehend a networked phenomenon that affect geographical patterns of our daily life			✔				Group research project, research essay and examination

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Knowles, R., Shaw, J. and Docherty, I. (eds.) (2008): Transport Geography. Motilities, Flows and Spaces. Oxford. Blackwell.
- Rodrigue, J. P. (2020). The geography of transport systems. New York. Taylor & Francis.
- William K. Black (2010) Sustainable Transportation: Problems and Solutions. New York. Guilford Press.

GEOG2030 Global Development

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr James H LENZER JR

OBJECTIVES: This course explains the processes of globalisation and the implications of using information and communication technologies (ICT) in understanding forces of spatial convergence and divergence. It provides students with a better understanding of the forces of globalisation and ICT, and their impact on contemporary geography. After taking this course, students are expected to be able to understand local issues as the results of forces operating at different spatial scales and be able to analyse and respond to changes brought about by globalisation and ICT.

COURSE SYNOPSIS: A geographical perspective is adopted to explain and analyse the processes of globalisation. Special emphasis is placed on the modern transnational corporations (TNCs) in different sectors of the economy and different regions of the world. Then, the impact of ICT on various dimensions of the society, including government, commerce, work, and personal and social networking, are systematically examined. The stages of e-development are proposed. Finally, the question of whether places in the contemporary world are moving towards convergence and divergence is addressed.

LECTURE TOPICS:
- Globalisation
- The e-society and geography
- Modern transnational corporations
- Selected theories
- Case studies

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 individual term essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand contemporary spatial patterns and processes of globalisation	✔	✔					Exam
2	understand theories that have shaped and are shaping contemporary globalisation	✔	✔					Essay & exam
3	critically understand origins, operations and significance of modern transnational corporations		✔			✔		Essay & exam
4	understand characteristics of flexible production					✔	✔	Exam
5	identify processes of e-government, e-commerce, e-working and e-networking	✔	✔					Essay & exam
6	analyse stages of e-development		✔					Essay & exam
7	discuss impacts on spatial convergence and divergence				✔			Exam
8	apply theories to analyse real-life situations			✔			✔	Essay & exam
9	develop skills of writing essays with standpoints					✔	✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Dicken, P. (2015). Global Shift: Mapping the Changing Contours of the World Economy, 7th edition. Los Angeles: Sage Publications. Online resources for students available at https://study.sagepub.com/dicken7e.
- Loo, B. P.Y. (2012). The E-society. New York: Nova Science. (Chapter Seven is open access and can be downloaded at https://www.novapublishers.com/catalog/product_info.php?products_id=22244.
- Ritzer, G. (2010). Globalisation: A Basic Text. United Kingdom: Wiley-Blackwell.

GEOG2055 Water Resources and Management

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Lishan RAN

OBJECTIVES: The course is designed to introduce water as a resource, outline the hydrologic cycle and quantification of the water balance, discuss water use and supplies and evaluate the human impact upon water including runoff amount and quality.

COURSE SYNOPSIS: This course begins with an introduction to water as a resource and the drainage basin hydrological cycle. The second part of the course focuses upon the use of water resources, including changing demand for water and explores possible solutions to the water problem. It also examines the issue of access to water. The human impact upon runoff and groundwater by means of dam construction and land-use change is studied. Finally, water quality including pollution and its impact upon water resources is explored.

LECTURE TOPICS:

- Water as a resource including the water balance and hydrologic cycle
- Changing patterns in demand, consumption and access
- Future water supplies: Supply vs demand management
- Runoff: The impact of forest, dams and urbanisation
- Groundwater problems
- Water quality and pollution

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 individual essay
- 2 individual exercises

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	gain an understanding of water as a resource and the hydrologic cycle	✔						Essay, exercises & exam
2	develop awareness of water use and issues in the management of water resources	✔						Essay, exercises & exam
3	reflect upon the human impact on the resource		✔					Essay, exercises & exam
4	understand basic hydrologic and water-quality measurements and data	✔			✔			Essay, exercises & exam
5	analyse and interpret hydrologic/water-quality data from a range of sources				✔			Essay & exercises
6	develop reading and presentation skills						✔	Essay & exercises
7	think critically about water resource issues						✔	Essay & exercises
8	conduct basic hydrologic/water-quality measurements			✔				Field trip

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Davie, T. (2008). Fundamentals of Hydrology. Routledge.
- UNESCO (2018). Nature-Based Solutions for Water. The United Nations World Water Development Report (WWDR).
- Grigg, N.S. (2016). Integrated Water Resource Management: An Interdisciplinary Approach. Palgrave Macmillan.

GEOG2056 Tourism and the Shrinking World

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Benjamin L IAQUINTO

OBJECTIVES: This course offers an overview of global tourism, covering key issues and central themes facing the tourism industry around the world.

COURSE SYNOPSIS: This course provides a comprehensive introduction to the global tourism system. With a balanced coverage of the whole range of components within the tourism industry, it explores environmental, social, cultural and economic aspects of tourism, including relevant theories, practices, and case studies. The material covered is intended to offer students knowledge of the tourism system, enable them to apply basic tourism concepts to various projects and problems, and help them to develop a career in the tourism industry.

LECTURE TOPICS:
- Geography and tourism studies
- Tourism hosts and guests
- Political ecology and tourism
- Planning and development
- Tourism transport and mobilities
- Tourism marketing
- Sustainable tourism

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 group project
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the global tourism system	✔						Exam, essay & project
2	examine the host and guest relationship		✔					Exam, essay & project
3	master practical application of basic concepts and theories			✔				Exam & essay
4	develop analytical capability in respect of a case study				✔			Exam & essay
5	improve written communication skills by writing an academic essay	✔		✔	✔		✔	Essay
6	develop visual and digital communication skills by designing a short video				✔		✔	Video

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Nelson, V. (2014). An Introduction to the Geography of Tourism. Lanham: Rowman & Littlefield.
- Williams, S. (2009). Tourism Geography: A New Synthesis. London: Routledge.
- Lew, A. A., Hall, C. M. & Williams, A. M. (Eds.) (2014). The Wiley Blackwell Companion to Tourism. West Sussex: John Wiley & Sons.

GEOG2057 Leisure and Recreation in Modern Society

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Benjamin L IAQUINTO

OBJECTIVES: This course introduces students to the topics of leisure and recreation. It demonstrates the importance of leisure and recreation to the personal well-being of individuals, the role they play in sustaining social life and their status as key industries affecting people and environments around the world.

COURSE SYNOPSIS: This course is an overview of the broad field of recreation and leisure, emphasizing the understanding of various leisure phenomena. As such, it aims to provide students with an introductory understanding of the nature and scope of leisure, leisure behaviour and affiliated recreation activity. It also reviews relationships between leisure and space, place, time, play, work, family, education, ethnicity, gender and environment.

LECTURE TOPICS:
- Leisure/recreation and "Geography of Everyday Life"
- The current scene of leisure and recreation: Global and local perspectives
- Leisure, life satisfaction and significance of the experience
- Leisure provision in the public/private sectors
- Globalizing leisure and recreation subcultures
- Critical issues in leisure/recreation management
- Popular culture and modern consumption

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 group project
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the basic concepts and theories	✔						Exam, essay & leisure analysis
2	enhance individual intellectual growth					✔		Exam, essay & leisure analysis
3	gain an awareness about the significance of leisure for modern society		✔					Exam, essay & leisure analysis
4	master practical application of basic concepts and theories			✔	✔			Exam & leisure analysis
5	analyse specific case studies				✔			Exam & essay

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- McLean, D.D., & Hurd, A. R. (2015). Kraus' Recreation and Leisure in Modern Society. Sudbury, Mass. USA: Jones & Bartlett Learning.
- Hall, C.M.& Page, S. (2014). The Geography of Tourism and Recreation: Environment, Place and Space. London: Routledge.
- Veal, A. J. (2019). Whatever happened to the leisure society? Oxon: Routledge. [Ebook available on HKU Libraries website]

GEOG2065 Urban Planning: Principles and Practices

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Phyllis C M LI

OBJECTIVES: This course aims at providing students with an introductory overview of the complexities of urban planning problems as well as key challenges confronted by professional planners.

COURSE SYNOPSIS: This course introduces students to the subject of urban planning. It first discusses the significance and objectives of urban planning, relating the rise of this profession to the changes of our increasingly urbanizing world. Then, drawing upon the overseas experiences and, at the same time, making references to similar issues in Hong Kong, key concepts and major policy debates relating to contemporary urban planning practices will be deliberated. These include competing planning theories, the planning process, the legal basis of planning as well as the political dimension of and social issues arising from an array of often controversial planning actions. The practical problems of land use planning, urban design and urban renewal are highlighted and critiqued. Examples from the United Kingdom, the United States and Hong Kong are contrasted to illustrate the complexities of urban planning problems in diverse spatial, political, and social settings.

LECTURE TOPICS:

- Why urban planning?
- Urbanisation and urban planning
- Sustainable development and urban planning
- Early thoughts on urban planning
- Planning theory and planning process
- Legal basis of urban planning
- Land use planning
- Urban design
- Urban renewal
- Heritage and nature conservation
- Social issues in urban planning and engaging the public
- The future of urban planning in an era of changes

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	identify and scrutinize key concepts and major policy issues in urban planning	✔	✔					Essay & exam
2	demonstrate an awareness of the broader context for understanding major debates in contemporary planning practices		✔		✔			Essay & exam
3	deliberate on, and critique, the social and political dimensions of physical planning decisions					✔	✔	Essay & exam
4	acquire critical reading and writing skills						✔	Essay & exam
5	define the nature and the scope of a planning problem for analysis			✔	✔			Essay
6	develop their skills in collecting, interpreting and analysing a diverse set of pertinent reference materials to produce a set of coherent findings			✔			✔	Essay

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Levy, J. M. (2017) Contemporary Urban Planning, eleventh edition, Upper Saddle River, Prentice Hall.
- Hall, P. & Tewdwr-Jones, M. (2011) Urban and Regional Planning, fifth edition, London, Routledge.
- Hall, P. (2014) Cities of Tomorrow: An Intellectual History of Urban Planning and Design Since 1880, fourth edition, Wiley Blackwell

GEOG2078 Urban Geography: Growth, Function and Pattern of Cities

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: More than half of the world's population resides in cities. Each city can be treated as a system, and cities together form another system. A primary objective of this course is to provide the students basic understandings city as a system and systems of cities. In addition, students will learn about the history of urbanization, internal structure of cities and relationships between cities. Issues and problems related to cities and urbanization will be addressed. Knowledge learned from this course serve as the foundations of urban and social planning, business location decision and other socioeconomic analyses.

COURSE SYNOPSIS: Human beings and their activities are increasingly concentrated in cities. A holistic examination of the city involves understanding its role, internal physical and social structure, and systems of activities. This is a basic course on urban geography. It covers basic topics including the history and forces of urbanization, economic development and evolution of cities, internal structure of cities, and cities as a system with functional relations. New urban phenomena such as the emergence of world-global cities and extended metropolitan regions are discussed. The course provides a basic understanding of city and related urban issues and problems.

LECTURE TOPICS:
- Foundations and History of Urbanization
- Systems of Cities
- Internal Structure of Cities
- Cities across the Globe
- Overview of Census Geographies (U.S.) and the use of GIS
- The Dynamics and Makings of Neighbourhoods
- Selected Urban Problems

ASSESSMENT:

Examination 60%
- 2 hours

Coursework 40%
- 10 individual weekly reflections
- 1 individual exercise

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	develop an understanding of urbanization as a major development process	✔						Weekly reflections, exercise & exam
2	develop an awareness of models describing internal structure of cities		✔					Weekly reflections, exercise & exam
3	acquire a knowledge in economic and spatial relationships between cities		✔					Weekly reflections, exercise & exam
4	acquire a knowledge in urban growth and associated urban problems		✔					Weekly reflections, exercise & exam
5	acquire skills in quantitative methods to analyze urban phenomena			✔				Weekly reflections, exercise & exam
6	acquire skill in a systems approach			✔				Weekly reflections, exercise & exam
7	acquire skill in a cross-disciplinary approach						✔	Weekly reflections, exercise & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Knox, P.L. and L. McCarthy. 2011. Urbanization: An Introduction to Urban Geography (3rd edition), Pearson.
- Greene, R. P. and J. B. Pick. 2011. Exploring the Urban Community: A GIS Approach (2nd edition), Pearson.

GEOG2090 Introduction to Geographic Information Systems

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor P C LAI

OBJECTIVES: To provide students a basic understanding of the concepts and techniques of GIS and their application to solve spatial problems that affect our society.

COURSE SYNOPSIS: This course introduces students to the computer-assisted techniques of geographic data analysis, collectively known as GIS, which involve the overlaying and merging of spatial data layers. The principles of such an approach will be discussed focusing on the nature of the spatial data, raster and vector data structures, GPS data collection, data transformation and geocoding, and spatial overlay techniques. Students must complete five simple exercises involving the application of the GIS concept in a real-life situation. An examination requiring short-essay responses will be administered during the examination period. This course is a pre-requisite for follow-up courses in geographic information systems.

LECTURE TOPICS:
- Introduction to GIS and some definitions
- Data types and structures
- Basic database management functions
- GIS in action
- Beyond map data

PRACTICALS:
- 5 laboratory practicals

ASSESSMENT:

Examination 40%
- 1.5 hours

Coursework 60%
- 5 individual practical exercises

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand some concepts in GIS and database management				✔			Practical exercises & exam
2	know some GIS functions and limitations			✔				Practical exercises & exam
3	recognise GIS requirements and application settings				✔			Practical exercises & exam
4	gain some GIS operational skills			✔			✔	Practical exercises & exam
5	acquire some database management skills						✔	Practical exercises & exam
6	apply map presentation skills				✔		✔	Practical exercises & exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Burrough, P.A., McDonnell, R., McDonnell, R.A., & Lloyd, C.D. (2015). Principles of geographical information systems. Oxford university press.
- Clarke, K. (2011). Getting Started with Geographic Information Systems. 5th Edition. Upper Saddle River, N.J.: Pearson Prentice Hall.
- Jensen, J.R., Jensen, R.R. (2013). Introductory Geographic Information Systems. Boston: Pearson.

GEOG2096 Human Impacts on Ecosystems

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Zhenci XU

OBJECTIVES: The course attempts to understand the structure and functions of natural ecosystems, evaluates their modifications by various kinds of human activities, and discusses the alternatives to destructive and non-sustainable use of ecosystems.

COURSE SYNOPSIS: The course introduces students to the basic concepts of biogeography by studying the structure and functioning of natural ecosystems and their extensive modifications by human activities. It provides a comprehensive foundation on basic ecological concepts, including structure and organization of ecosystems, energy flow and nutrient cycling, evolution of the biosphere and ecosystem succession and changes. Some special issues of ecosystem management of relevance to nature conservation and protection are then expounded, including species interactions, biotic dispersal and migration, fire as a natural-cum-anthropic factor, continental drift and Pleistocene Glaciation, domestication and agricultural origin, the pervasive ecological impacts of modern agriculture and urbanization, and the application of island biogeography theory to habitat and species conservation. This is a course of general appeal to students with different backgrounds and dispositions.

LECTURE TOPICS:

- Organization, energy flow and nutrient cycling in ecosystems
- Evolution of the biosphere, ecosystem changes through time
- Continental drift and Pleistocene Glaciation
- Species interactions, organism dispersal and migration
- Fire as a factor of biotic distribution
- Domestication and the origin of agriculture

ASSESSMENT:

Examination 60%

- Exam paper

Coursework 40%

- 2 field trip reports

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	Acquire synoptic understanding of the world's life-supporting ecosystems	✔						Field trip report 1; Exam paper
2	Analyze spatial and temporal variations in ecosystem composition, factors and processes		✔					Field trip report 2; Exam paper
3	Understand nature of ecosystem modifications due to pervasive human impacts		✔					Exam paper
4	Learn integrated assessment of the multiple ecosystem components and linkages			✔				Exam paper
5	Apply knowledge to countryside interpretation in a local terrestrial ecosystem			✔				Field trip report 1; Exam paper
6	Write an independent and critical report on information collected in the field				✔			Field trip report 2

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Huggett, R.J. (2004) Fundamentals of Biogeography, 2nd edition. London: Routledge.
- McDonald, G.M. (2003) Biogeography: Space, Time, and Life. New York: John Wiley.

GEOG2109 Population Geography and Social Development

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Junxi QIAN

OBJECTIVES: This course aims to provide students with a fundamental understanding of human population issues and problems in our contemporary world from a geographical perspective.

COURSE SYNOPSIS: This course aims to provide students with a fundamental understanding of human population issues and problems in our contemporary world from a geographical perspective. Major concepts, theories and definitions in Population Geography will first be introduced, and the patterns and trends in fertility, mortality and migration of human populations in different parts of the world will be illustrated. Example from across the world will be drawn to demonstrate the varying regional patterns of population, and how different patterns of population affect pathways of social change and development in specific contexts. Topics investigated in the course include: population data and global population trends; population composition and structures; ageing and elderly care; internal migration; international migration; asylum seekers and refugees; cultural policies and politics of migration; population and health issues; population and environmental sustainability. Policies adopted to address these population-related issues will also be discussed and analyzed. In addition to a general delineation of Population Geography, this course will have a specific focus on the latest population changes and mobilities in East Asian societies, especially challenges of population deficit and ageing in Mainland China, Hong Kong, Taiwan, Korea and Japan. The course is useful for students majoring in geography, urban studies, urban planning, social work, sociology, public administration, etc. to get an overview of population trends and public policy directions around the world.

LECTURE TOPICS:

- Definition of population geography, and geographical perspectives in the research of population
- Data, tools and measurements in the research of population
- Patterns and trends in fertility, mortality, and growth of human populations in different parts of the world
- Population composition and population pyramid
- Aging and elderly care in contemporary world
- Migration I: International migration
- Migration II: Internal migration
- Migration III: Refugees and asylum-seekers
- Migration IV: Migration and issues of citizenship and belonging
- Population and health
- Population and sustainability

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 group project (presented in the form of an oral presentation)

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	develop an understanding of intellectual history, key concepts, theoretical orientations and debates in population geography	✔						Project & exam
2	develop awareness of patterns and trends in population structures in different world regions and at various geographical (global, national and local) scales, with a specific focus on population changes in China		✔					Project & exam
3	appreciate population-related issues as outcomes and causes of interrelated economic, political, social, cultural and environmental changes, with a specific focus on the implications of population changes and mobilities in China	✔						Project & exam
4	acquire analytical skills to link population-related issues with economic, political, social, cultural and environmental processes across geographical scales and space				✔			Project & exam
5	develop an ability to interpret empirical data related to demography and migration			✔				Project & exam
6	acquire critical reading, writing and presentation skills						✔	Project & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Newbold, B. K. (2013). Population Geography: Tools and Issues, 2nd edition. New York: Rowman and Littlefield.
- Weeks, J. (2016). Population: An Introduction to Concepts and Issues, 12th edition. Belmont: Wadsworth/Thomson Learning.

GEOG2120 Introductory Spatial Analysis

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Lishan RAN

OBJECTIVES: This course aims to introduce students to the research methodology and techniques commonly used in spatial analysis. Due to the unique nature of spatial data, traditional (or classical) statistics are not competent and adequate for geographical research, and thus spatial statistics are introduced. By completing this course, students begin to appreciate the issues involved in choosing appropriate statistics to deal with some common problems in geographical research.

COURSE SYNOPSIS: The course provides an overview of spatial statistical techniques that are fundamental to the analysis of spatial data. This is a foundation course for research in geography. Following an overview about the uniqueness of spatial data and related analytical issues, the course covers basic descriptive statistics and statistics used to describe the distributions of geographical features. Correlation measures, probability concepts and inferential statistical concepts are discussed. The course also examines techniques to analyze point and polygon patterns, including spatial autocorrelation statistics.

LECTURE TOPICS:

- Descriptive classical statistics: Univariate and bivariate
- Centrographic measures for points
- Basis for inferential statistics
- Hypothesis and significance testing
- Spatial autocorrelation and regression
- Spatial interpolation: Concepts and applications

ASSESSMENT:

Examination 40%

- 1.5 hours

Coursework 60%

- 4 individual assignments

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	differentiate spatial and non-spatial sampling			✔				Assignments & exam
2	apply different descriptive and inferential spatial statistics			✔			✔	Assignments & exam
3	use Excel/SPSS to generate selected descriptive and inferential statistics			✔			✔	Assignments
4	use ArcGIS to generate layers from geographic point data for spatial analysis			✔			✔	Assignments

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Wong, D.W.S., & Lee, J. (2005). Statistical Analysis of Geographic Information with ArcView GIS and ArcGIS. Wiley.
- Nicholas J., Gotelli, N.J. & Ellison, A.M. (2012). A Primer of Ecological Statistics. Sinauer Associates, Inc.
- O'Sullivan, D,, & Unwin, D.J. (2010). Geographic Information Analysis. John Wiley and Sons, Inc.

GEOG2124 Environmental Change and Socio-political Conflicts

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Ricci P H YUE

OBJECTIVES: Resource scarcity is currently a hot issue. This course attempts to address its possible impact upon human society from a geopolitical perspective.

COURSE SYNOPSIS: This course examines the relationship between global environmental change, population growth and socio-political stability in the 21st century, with a special focus on the likelihood of violent conflict in the developing world. The background knowledge of climate-induced and human-induced environmental change will be introduced. The associated physical and social dimensions of environmental change will also be covered. Emphasis is placed on discussing how environmental stress triggers human conflicts from a geopolitical perspective. This course is generally appealing to students with different backgrounds. Each class will begin with a lecture, followed by significant time for questions and discussion. Debate is encouraged.

LECTURE TOPICS:

- The technical aspects of climate-induced and human-induced environmental change
- The social and political effects of environmental change
- Population growth and demographic stress
- Nonlinearity, complexity, values, and the limits to adaptation
- Geopolitical theory from the Greeks to the global era
- The contested grounds of human conflicts in the new environmental politics

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 group project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	comprehend the complex relationship among environmental stress, population growth, and human conflicts	✔	✔					Group project and exam
2	understand the geopolitics of environmentally related violence	✔	✔					Group project and exam
3	develop a comprehensive vision of global security	✔	✔					Exam
4	exercise interdisciplinary curiosity, bring ideas together from multiple fields, and successfully apply them to contemporary issues that are critical to human society				✔			Group project and exam
5	apply both macroscopic and microscopic analytical skills		✔					Group project and exam
6	know how to resolve the competing interpretations of controversial issues		✔		✔			Group project and exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Cohen, S.J., & Waddell, M.W. (2009). Climate Change in the 21st Century. Montréal: McGill- Queen's University Press.
- Homer-Dixon, T.F. (1999). Environment, Scarcity, and Violence. Princeton: Princeton University Press.

GEOG2126 Globalizing China: The Land and the People

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor George C S LIN

OBJECTIVES: The objectives are to a) provide students with the geographical knowledge essential to understand the location, growth and transformation of China's land and people; b) demonstrate how changes in the Chinese culture and society are shaped by its geographical conditions; and c) critically evaluate the impacts of ideological and institutional changes since 1949 upon the Chinese economy, society and environment.

COURSE SYNOPSIS: This is an introductory course about the evolving physical, cultural and political landscape of China. Emphasis is placed on (a) the natural environment and physical setting for development; (b) historical contexts and evolution of the landscape; (c) the political system and post-1949 development; and (d) the growth and spatial distribution of the Chinese population. The purpose is to provide students with the knowledge essential to understand the process of economic restructuring and spatial transformation in the context of a rapidly changing socialist country.

LECTURE TOPICS:

- Globalizing China: what make China's land and people special as a subject of studies?
- The Middle Kingdom (中国): center of universal civilization or victim of self-isolation?
- The Chinese Checkerboard: east-west division or north-south contrast?
- South-North Water Transfer (南水北调): quenching the dragon's unquenchable thirst?
- Origins of the Chinese civilization: (endogenous) evolutionism or (exogenous) diffusionism?
- Making sense of Imperial China: dynastic cycle, key economic areas, or macro-regions?
- Political systems: unitary/integrated authoritarianism or fragmented/conflictual governance?
- Institutional Setting/Policies: Ideological indoctrination/transformation or material motivation?
- Population: human power (人手) of modernization or mouths (人口) eating up development?
- Greater China: autonomy/identity preservation or national integration/cultural assimilation?

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- Attendance and class participation
- 2 response essays
- 1 group project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	evaluate China's changing location in the world		✔	✔				Response essays and exam
2	compare and contrast the different geographic environments among key Chinese regions		✔		✔			Response essays and exam
3	understand the historical evolution of China's land and people	✔	✔	✔				Exam
4	knowledge of China's political system and population control policies				✔	✔		Exam
5	identify the regularity in the spatial distribution of key physical features			✔	✔			Response essays and exam
6	logically link China's physical environment with human culture and society	✔	✔		✔			Response essays
7	examine and critique some of the myths about contemporary China that are popularly reproduced around the world	✔		✔				Response essays, group project & exam
8	assess the impacts of global forces on everyday lives and landscapes in contemporary China, and China's interactions and interventions around the world in a range of contexts			✔	✔			Response essays, group project & exam
9	develop the ability to engage in general critical thinking and to hone academic writing and presentation skills						✔	Class participation, response essays, group project & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Veeck, G., Pannell, C.W., Huang, Y. and Bao, S. (2016) China's Geography: Globalization and the dynamics of political, economic, and social change. Lanham: Rowman & Littlefield.
- Pannell, C.W. and Ma, L.J.C. (1983) China: The Geography of Development and Modernization. New York: Edward Arnold.
- Rudolph, J. and Szonyi, M. (2018) The China Questions. Cambridge, MA: Harvard University Press.

GEOG2127 Environmental Management

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Wendy Y CHEN

OBJECTIVES: The course will help students to understand major aspects of environmental management as a means for protecting natural and man-made environments.

COURSE SYNOPSIS: The course will introduce a range of key issues, concepts, principles and methods in environmental management. The major components, processes and attributes to environmental management will also be elaborated. The roles of civil society, market mechanism and government regulations in environmental management will be examined. Real-life examples from Hong Kong, China, and oversea countries will be discussed to illustrate how integrated approaches should be applied for identifying optimal options in environmental management decision-making processes.

LECTURE TOPICS:

- Command-and-control principle: Environmental laws, standards, and regulations
- Environmental impact assessment (EIA)
- Market-based mechanisms in environmental management
- Voluntary initiatives in environmental management
- Environmental management systems (EMS)
- Environmental management in Hong Kong and China

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 group field trip report
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand major aspects in environmental planning and management	✔	✔					Field trip report, essay & exam
2	recognise various approaches to environmental planning and management	✔	✔					Field trip report, essay & exam
3	identify the merits and limitations of different methodologies for environmental management			✔				Field trip report, essay & exam
4	understand the environmental management in Hong Kong and China				✔			Field trip report, essay & exam
5	compare and contrast various approaches to environmental planning and management						✔	Field trip report, essay & exam
6	evaluate critically the performance and effectiveness of environmental planning and management systems in Hong Kong						✔	Field trip report, essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Mulvihill, P.R., & Ali S.H. (2016). Environmental Management, Critical Thinking and Emerging Practices. Routledge, New York.
- Belcham, A. (2015). Manual of Environmental Management. Routledge, New York.
- Antweiler, W.P. (2014). Elements of Environmental Management. University of Toronto Press, Toronto.

GEOG2128 Economic Geography

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Frank VAN DER WOUDEN

OBJECTIVES: To introduce perspectives on economic growth, technological change and competition in a world where geography matters and help students develop a knowledge base about the interaction between geographical space and economic processes.

COURSE SYNOPSIS: As global production becomes increasingly integrated, workers and firms in different regions are forced more directly into competition with one another. How do these firms, and the regions in which they are embedded, compete for the capital and labor required to sustain competitiveness? The dominant strategies of competitive advantage hinge on technology. More specifically, technological change remains one of the primary determinants of profitability and growth. Increasingly, it is recognized that the motors of national economic performance are sub-national technology districts. These innovative regions are characterized by strong ties between firms embedded in institutional structures that reinforce common sets of rules, norms, business cultures and decision routines. The aim of the class is to understand the postwar history and geography of economic growth. Three general tasks delineate the work to be done:
1. Review the record of postwar economic growth, paying particular attention to its geography
2. Address different theories of economic growth and technological change
3. Examine how the processes that influence technology, competition and growth operate in space.

LECTURE TOPICS:
- Introduction to economic growth
- Technological change
- Institutions & Geographies of Technology
- Agglomeration Economies and Network-Structures
- Product Space & Knowledge Space
- Economic Relatedness and Complexity
- Knowledge Flows across space
- Innovation: history and future

ASSESSMENT:

Examination 40%
- 2 hours

Coursework 60%
- 3 quizzes

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	be aware of the principles of and changing perspectives in economic geography	✔						Quizzes & exam
2	understand the interaction between geographical space and economic processes				✔			Quizzes & exam
3	understand economic change in the context of globalization		✔					Quizzes & exam
4	differentiate various perspectives in economic geography						✔	Quizzes & exam
5	evaluate the relevance of the theories about the relationship between geographical space and economic processes	✔				✔		Quizzes & exam
6	identify and explore spatial drivers of economic activities		✔					Quizzes & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Acemoglu, D. 2008. Introduction to Modern Economic Growth. Princeton: Princeton University Press.
- Hidalgo, C., Klinger, B., Barabasi, A. and R. Hausmann 2007. The product space conditions the development of nations. Science 27: 482-487.
- Van der Wouden, F. 2019, A history of collaboration in US invention: changing patterns of co-invention, complexity and geography, Industrial and Corporate Change

GEOG2132 World Cities

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Keumseok (Peter) KOH

OBJECTIVES: To introduce students to basic concepts and theoretical frameworks related to the world economy, urbanisation and contemporary urban issues in global contexts.

COURSE SYNOPSIS: World cities have been contributing to the international networks of human activities, including flows of goods, services and finance which constitute the world economy. The course is divided into three main sections with two introductory lectures outlining the key concepts and terminologies to be used in the latter part of discussion and two concluding lectures focusing on the challenges of livability, sustainability and vibrancy of world cities. It begins with a discussion of urban economies. World cities are concentrations of capital, international firms, and professional workers. This part of the module offers an economic rationale for the existence of world cities and explains how they are shaped by the process of globalization. The discussion is followed by providing an overview of urban issues, including uneven development, concentrated decentralization, fragmentation, polycentrism, regionalization, segregation and exclusion. Different world cities will be chosen as case studies. Growth sustainability of world cities will be discussed before concluding this course.

LECTURE TOPICS:
- World cities
- Urban economies
- Globalisation
- Urban problems
- Sustainability

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 individual research paper
- 1 group presentation
- Class participation and attendance

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the nature of world cities	✔	✔		✔			Exam, research paper & presentation
2	analyse the social and economic issues related to the urban process in world cities	✔	✔		✔			Exam, research paper & presentation
3	understand the sustainable forms and challenges of world cities	✔	✔		✔			Exam, research paper & presentation
4	develop a critical thinking in urban geography		✔		✔			Exam, research paper & presentation
5	acquire skills in interpreting urban issues, analysing research materials, and reporting research findings			✔		✔	✔	Exam, research paper, presentation & participation

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Brunn S.D., Hays-Mitchell, M. & Zeigler, D.J. (Eds.) (2012). Cities of the World: World Regional Urban Development, Lanham, Md.: Rowman & Littlefield Publishers.
- Jacobs A.J.(Ed.) (2013). The World's Cities: Contrasting Regional, National, and Global Perspectives, New York and London: Routledge.
- Sassen S. (2012). Cities in a World Economy (4th ed.), Los Angeles: Sage.

GEOG2133 Cities and Migrants

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Keumseok (Peter) KOH

OBJECTIVES: This course provides the students with an understanding on the changing patterns and underlying mechanism of internal and international migration in cities and urban areas across the world.

COURSE SYNOPSIS: Like many western cities, Hong Kong as well as many East Asian metropolises now experience the influx of domestic and/or international migrants from various regions of world. While large cities gain new potentials of growth from migrants, they also suffer from societal issues posed by the migrants. This course will examine the changing patterns and underlying mechanism of internal and international migration in cities and urban areas across the world. Major topics will include theoretical frameworks of migration theories, spatial patterns of immigrant settlements in cities, identity inclination, social integration, feminization of migration, Asian American, cross-boundary movement between Hong Kong and the Mainland, and health of migrants.

LECTURE TOPICS:

- National boundary, geographical location and identity attachment in major global cities
- Identity formation, identity inclination, identity shift and dual identities in major global cities
- Theoretical concept of acculturation: Social integration, assimilation, rejection and deculturation in major global cities
- Cross-boundary movements and implication on social integration in major global cities
- International case study of continuous inter-cultural contacts and their related impact in major global cities
- Regional and local case study of cross-boundary movements and social integration in major global cities
- Empirical measurement of acculturation and integration in major global cities

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual midterm reflection paper
- 1 individual paper

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the concepts and theories of migration and globalization with urban context	✔	✔				✔	Exam & midterm paper
2	gain an understanding of the relation migration and social integration within cities	✔	✔				✔	Exam & midterm paper
3	appreciate the importance of acculturation and social integration in migration processes within cities	✔	✔	✔	✔		✔	Exam & individual paper
4	describe the major concepts of identity formation and acculturation in cities	✔	✔	✔	✔		✔	Exam & individual paper
5	explain the impact of migration on social integration in cities	✔	✔	✔	✔		✔	Exam & individual paper

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Matthews, G. et al. (2008). Hong Kong, China: Learning to Belong to a Nation. NY:Routledge.
- Naples, N.A., & Bickham Mendez, J. (Eds.) (2014). Border Politics: Social Movements, Collective Identities, and Globalisation. NY: NYU Press.

GEOG2135 Climate, Energy and Life

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Elvis AU

OBJECTIVES: This course provides a framework on the interactions between climate and life over a range of time scales from geological to recent decades, with energy and information as a link. A multi-disciplinary approach will prompt students to critically re-examine their world-view and their assumed values in life in the context of global climate.

COURSE SYNOPSIS: This course provides a framework on the interactions between climate and life over a range of time scales from geological to recent decades, with energy and information as a link. A multi-disciplinary approach is adopted to prompt students to critically re-examine their world-view and their assumed values in life in the context of global climate. The concept of life is applied to a broad range of phenomena. The role of life in determining the Earth's atmospheric composition, as well as the co-evolution of climate and life forms, are examined. Glacial periods and the human condition; climate and its variations as related to broad historical patterns; globalization, industrialization, and consumerism as climate changers are discussed. Looming hazardous climate change is studied in the context of "sustainable development" and China's "development". The course concludes with a critical look at values and ethics as the essence of being Homo sapiens and as the basis for species survival.

LECTURE TOPICS:

- The life phenomenon and the co-evolution of life and atmosphere
- Climate and big history
- Post-industrial revolution changes
- Human influence on climate system
- Climate, globalization and international agreements
- Interaction among emissions, climate, risks and development pathways
- Climate change mitigation, adaptation and resilience
- Climate change, decarbonisation, economy and finance
- Climate Change, sustainable development and China's development
- Interactions among climate change, energy and life
- The survival issue

ASSESSMENT:

Examination 0%

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Coursework 100%

- Quiz and term paper

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	Appreciation of the relevance of the life concept to a wide range of phenomena including urban cities	✔						Quiz & term paper
2	Understanding of the co-evolution concept in life-climate interactions		✔					Quiz & term paper
3	Appreciation of climate and its changes as an integral part of human development		✔	✔	✔			Term paper
4	Understanding of values and life-style as drivers of climate change				✔	✔		Quiz & term paper
5	Critical reading and writing skills			✔	✔			Term paper
6	Ability to better articulate the emerging challenges posed by global warming with an informed world-view				✔	✔	✔	Term paper
7	Ability to view issues from multiple perspectives and to formulate an integral picture				✔	✔	✔	Quiz & term paper

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Co-evolution of Climate and Life, by Stephen H.Schneider, 1984, Random House, Inc.
- Co-evolution of atmosphere, life and climate, by J. Lee Grenfell and others, ASTROLOGY, Volume 10, Number 1, 2010. (https://www.liebertpub.com/doi/pdfplus/10.1089/ast.2009.0375)
- IPCC Fifth Assessment Report, Synthesis Report, Intergovernmental Panel on Climate Change, 2015 (www.ipcc.ch)
- Hong Kong's Climate Change Action Plan 2030+, Environment Bureau, Hong Kong Special Administrative Region Government (www.enb.gov.hk)

GEOG2136 Political Geography

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Junxi QIAN

OBJECTIVES: This course provides students with an overview and fundamental understanding of the ways in which political issues are dealt with through geographical and spatial perspectives.

COURSE SYNOPSIS: This course provides students with an overview and fundamental understanding of the ways in which political issues are dealt with through geographical and spatial perspectives. Major concepts and definitions in Political Geography will first be introduced, and this is to be followed by a brief introduction of the intellectual history and lineage of Political Geography. Theoretical issues and empirical cases, grouped into a number of topics, will then be presented. The tenet of this course is to show how world order and the lived experiences of people are shaped by, but also reshape, the respective capacities of, and interactions between, state regimes. It is to show that sovereignty, territoriality and nation-state matter a great deal in defining global economy, social transformation and culture. Topics investigated in the course include: classical geopolitical theories; global economy and the world-system; critical geopolitics; globalization and the regulation of difference; imperialism and post-colonial geographies; territoriality, sovereignty and the border; nation-state, nationalism and citizenship.

LECTURE TOPICS:

- Intellectual history of political geography and classical geopolitical theories
- Basic concepts in political geography
- Global economy and the world-system
- Geopolitics and the practice of international relations
- Imperialism and colonialism
- Territorial power of the state
- Nation-state, nationalism and citizenship
- Democracy, Democratisation
- Social Movements in an era of globalization

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have a preliminary understanding of the intellectual history of political geography	✔						Essay & exam
2	have a solid understanding of the theories, definitions and concepts in Political Geography	✔	✔					Essay & exam
3	understand the mutual relationships between spatial patterns and mechanism on the one hand, and major political issues of the current world on the other		✔	✔				Essay & exam
4	develop an ability to draw from concepts and theories in political geography to critically reflect on the latest political changes in Hong Kong, Asia and the globe			✔	✔			Essay & exam
5	develop basic skills to interpret empirical cases, and link political geographical issues with broader social, economic and cultural changes					✔	✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Cox, K. (2002). Political Geography: Territory, State, and Society. Oxford: Blackwell.
- Flint, C., & Taylor, P. (2018). Political Geography: World-economy, Nation-state and Locality, 7th edition. London: Routledge.

GEOG2137 Introduction to Research Design

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr James H LENZER JR

OBJECTIVES: To introduce students to different research methods and techniques, and help students develop skills in field data collection, data analysis and presentation of findings.

COURSE SYNOPSIS: This is a foundation course on applied research in the social sciences in general and human geography in particular. It is designed to introduce the key elements of a sound research design and offer training in basic research techniques and academic writing. This course begins with an introduction to research methodology, followed by exercises to design and implement research experiments relevant to human geography. Both qualitative and quantitative methodologies will be covered. It also covers the selection and use of various methods and tools for collecting, processing, analyzing and presenting data collected.

LECTURE TOPICS:

- What is research?
- Concepts and methodologies
- Problem identification and hypothesis testing
- Research instruments and measurements
- Data collection
- Analysis techniques
- Data analysis
- Data interpretation
- Organization and presentation of data

ASSESSMENT:

Examination 0%

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Coursework 100%

- Quiz
- Research proposal
- Summary of publications

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	Understand the key elements of a sound research design			✔				Quiz, research proposal & summary of publications
2	Understand the strengths and weaknesses of various research methods and tools			✔			✔	Quiz, research proposal & summary of publications
3	Interpret, organize and present data in a systematic way				✔		✔	Quiz, research proposal & summary of publications
4	Design experiments and sampling schemes			✔				Quiz, research proposal & summary of publications
5	Collect, analyse and interpret data			✔	✔			Quiz, research proposal & summary of publications
6	Use data analysis techniques						✔	Quiz, research proposal & summary of publications

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Groves, R. M. et al. (2009). Survey Methodology, 2nd edition, Wiley: Hoboken, N.J.
- Gomez, B., & Jones III, J. P., (Eds.) (2010). Research Methods in Geography : aACritical Introduction. Wiley-Blackwell: Malden, MA.
- Bouma, G., & Carland, S., (2016). The Research Process, 6th edition. South Melbourne, Victoria: Oxford University Press.

GEOG2138 Hong Kong's Environment: Issues and Policies

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Nicky Y F LAM

OBJECTIVES: This course will provide students with a regional and comparative perspective to examine the complex inter-relationships between the socio-economic-political processes and the perplexing environmental and, ecological conditions of Hong Kong.

COURSE SYNOPSIS: This course will provide students with a regional and comparative perspective to examine the complex inter-relationships between the socio-economic-political processes and the perplexing environmental and ecological conditions of Hong Kong. This course will help students develop an in-depth understanding of the larger issues impinging on Hong Kong's ecological future. It will also enable them to think critically of the material causes and consequences of the changing nature of environmental challenges associated with sustained economic and urban growth, both in Hong Kong as well as in its neighbouring jurisdictions in Mainland China. The course materials are organized around three major sub-themes to help achieve its overall objectives: the sustainability dimensions of Hong Kong as a compact city, the links between economic restructuring and changing environmental challenges and the constraints of and opportunities for cross-boundary environmental cooperation.

LECTURE TOPICS:
- Air pollution
- Water pollution
- Municipal solid waste
- Nature conservation
- Environmental impact assessment
- Public environmental attitudes
- Politics and environmental policy
- Urban planning and the environment
- Cross-border environmental management
- Environmental governance

ASSESSMENT:

Examination 50%
- 1.5 hours

Coursework 50%
- 1 individual research paper
- 1 individual field trip report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	describe and explain the causes, contours and consequences of major environmental issues in Hong Kong	✔	✔					Research paper, field trip report & exam
2	examine critically the strengths and limitations of policies formulated to address environmental problems in Hong Kong			✔	✔			Research paper, field trip report & exam
3	compare and contrast the similarities and differences of selected environmental challenges faced by Hong Kong and its neighbouring jurisdictions in Mainland China			✔	✔			Research paper, field trip report & exam
4	demonstrate an awareness of the complex relations between the socio-economic-political processes and environmental change in a high-density urban setting	✔	✔					Research paper, field trip report & exam
5	develop their critical reading and writing skills			✔	✔			Research paper & field trip report
6	learn the skills in collecting, interpreting and analysing a diverse set of pertinent reference materials to produce a set of coherent findings			✔	✔		✔	Research paper & field trip report

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Mottershead T., (Ed.) (2004). Sustainable Development in Hong Kong. Hong Kong: Hong Kong University Press.
- Ng, C.N., & Lee,Y.S.F., (2007). "Environmental Safeguards and Breakthroughs," in Yeung, Y.M. (ed.) The First Decade: The Hong Kong SAR in Retrospective and Introspective Perspectives, Hong Kong: The Chinese University Press, Chapter 15, pp. 321-350.

GEOG2140 Landscape Ecology for Sustainable Societies

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Raffaele LAFORTEZZA

OBJECTIVES: This course explores the relationship between spatial patterns and processes in an ecological context through an understanding of landscape mosaics and landscape components and how these are affected by natural and human environmental drivers of change. Landscape ecology offers new approaches to address fundamental research questions in applied geography and natural resource management where ecosystem processes are considered at larger spatial and temporal scales. A "systems perspective" is proposed that shows how human and environmental systems are coupled and sustained through feedback mechanisms, and the important properties that are significant for their landscape resilience and sustainability.

COURSE SYNOPSIS: The intent of the course is to explore the principles of landscape ecology as a framework for landscape-scale research, analysis and management. The course will provide the theoretical background for understanding and managing a variety of landscape types across different geographical regions. Students are introduced to the distribution patterns of wild animals and plants and to the factors that determine these patterns. In this course, emphasis is on aspects of biogeography, biodiversity and implications for conservation issues. Particular attention will be given to the importance of plants and animals within the context of their ecosystems or biomes and to the relevance of physical, biotic and human factors in shaping ecosystems. Emphasis will also be placed on the ecological and cultural contribution of plants and animals to sustainable human living on the planet.

LECTURE TOPICS:

- History and definition of landscape ecology and its relationship to geography
- Causes of landscape patterns (abiotic, biotic, human land use and disturbance)
- Theory and basic principles in landscape ecology (i.e., island biogeography, meta-populations, hierarchical systems, source-sink, etc.)
- Data for studying landscapes and measuring landscape patterns (landscape pattern analysis)
- Landscape disturbance dynamics and effects of landscape patterns on organisms, populations, communities and ecosystems processes
- Applied landscape ecology: Urban planning and urban forestry

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	obtain knowledge of the basic concepts, methods, and applications in landscape ecology	✔	✔			✔		Essay & exam
2	examine and understand the ways in which spatial patterns and processes operate in an ecological context	✔		✔				Essay & exam
3	understand the relevance of landscape ecology to human society using a "systems perspective"				✔	✔		Essay & exam
4	apply the concepts, models, and techniques of landscape ecology in natural resource management				✔	✔	✔	Essay & exam
5	learn and become familiar with the quantitative techniques used to assess landscape patterns and processes		✔	✔			✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Turner, M.G., & Gardner, R.H., (2015). Landscape Ecology in Theory and Practice. Springer, the Netherlands.
- Forman, R.T.T. (1995). Land Mosaics: The Ecology of Landscapes and Regions. Cambridge University Press.

GEOG2141 Remote Sensing Applications

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Raffaele LAFORTEZZA

OBJECTIVES: The aim of this course is to provide a solid theoretical understanding and comprehensive introduction to the use of remote sensing technologies for different applications in geography. This course presents the basic technical and methodological skills needed to employ various types of remotely sensed images and aerial images as a source of quantitative information in geography; including urban planning, landscape ecology, recreation resource management, wildlife management and others. Students will be exposed to several common image and analysis techniques and will have the opportunity to develop these skills further with an independent project.

COURSE SYNOPSIS: The course provides a substantial and balanced introduction to the basic theory and methodology of applied remote sensing technologies. It explores the principles of electromagnetic radiation, as well as the interactions of solar radiation with the earth's atmosphere. The spectral reflectance of main land cover types; e.g., forest vegetation, soil, crops and urban areas, will be emphasized. During the course, students will compare the spatial, spectral, radiometric and temporal characteristics of different multispectral sensor systems and their data products. Hands-on experience using ArcGIS with techniques will be provided. An introduction to airborne LiDAR data will be provided as well.

LECTURE TOPICS:

- Theoretical fundamentals of optical, radar remote sensing
- Characteristics of remote sensing systems
- Remote sensing data types and formats
- Remote sensing of vegetation
- Land use/land cover mapping
- Remote sensing and GIS
- Image analysis and classification

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have a solid theoretical background of remote sensing and its application in geography			✔	✔			Essay & exam
2	understand how to process remotely sensed data to make it useful in geographic information systems			✔	✔			Essay & exam
3	critically assess the strengths and weaknesses of remote sensing instruments and platforms for a variety of application scenarios	✔	✔			✔		Essay & exam
4	apply acquired knowledge and critical thinking skills to solve a real-world problem with appropriate remote sensing data and processing methods				✔	✔	✔	Essay & exam
5	extract information from remotely sensed data using a variety of manual and automated techniques			✔	✔		✔	Essay & exam
6	develop multi-step remote sensing workflows to solve problems in a variety of application areas	✔	✔		✔		✔	Essay & exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Lillesand T., Kiefer, R.W., & Chipman J., (2015). Remote Sensing and Image Interpretation, 7th Edition.
- Tempfli C., Kerle, N., Janssen, Lucas, L.F., & Huurneman, G.C., (Eds.), (2009). Principles of Remote Sensing: An Introductory Book. The International Institute for Geo-Information Science and Earth Observation (ITC), The Netherlands.

GEOG2142 Silk Roads Past and Present: China's Belt and Road Initiative in Perspective

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Mia M BENNETT

OBJECTIVES: This course provides students with a grounding in the history and geography of the Silk Road and infrastructure projects of empires and powers past and present in order to understand debates surrounding China's Belt and Road Initiative (BRI). With over 70 countries involved in the BRI, this course considers these questions across the many regions BRI may affect. After taking this course, students are expected to be able to understand the historical and geographic context of BRI and analyze the main drivers and impacts of its associated development projects.

COURSE SYNOPSIS: A brief introduction to the history of the ancient Silk Road is provided. Then, key transportation infrastructure projects undertaken by powers in history are considered. China's Belt and Road Initiative (BRI) is introduced along with its associated lending institutions. The course takes a geographic approach to BRI by considering its drivers and impacts across several different world regions. Finally, some consideration of its environmental impacts is offered.

LECTURE TOPICS:
- History of the Silk Road: 500BC – 1500AD
- Routes to empire: Roman roads, Ming Dynasty shipping, and American railways
- Exploring and visualizing geopolitical issues with Esri Story Maps
- China's Belt and Road Initiative (BRI) & competing visions of connectivity
- Lending institutions: Chinese policy banks, Silk Road Fund, BRICS Bank, & the AIIB
- Impacts of BRI in Hong Kong & Mainland China
- Asian peripheries: Southeast Asia, South Asia & Central Asia
- Other regions: Russia & the Arctic and Africa
- Summing up the BRI, its possibilities for sustainable development, and competing visions of global transportation networks

ASSESSMENT:

Examination 50%
- 2 hours

Coursework 50%
- 1 individual ArcGIS Story Map and essay
- 2 map quizzes
- Class participation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have a basic knowledge of the history of ancient Silk Road	✔	✔		✔			Exam, map quizzes & class participation
2	understand major state-led transportation infrastructure projects across history	✔	✔		✔			Exam & class participation
3	understand the Belt and Road Initiative (BRI) and its various motives	✔	✔	✔	✔		✔	Story map and essay, exam & class participation
4	identify BRI stakeholders and project impacts on development across various world regions	✔	✔	✔	✔	✔	✔	Story map and essay, exam & class participation
5	develop basic skills in drawing maps of ancient and contemporary Silk Road locations			✔	✔		✔	Map quizzes
6	develop analytical and writing skills by working with primary & secondary sources			✔	✔		✔	Story map and essay

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Frankopan, P. (2015). The Silk Roads. New York: Vintage Books.
- Mayer, M. (2017). Rethinking the Silk Road: China's Belt and Road Initiative and Emerging Eurasian Relations. London: Palgrave Macmillan.
- Miller, T. (2017). China's Asian Dream: Empire Building Along the New Silk Road. London: Zed Books.

GEOG2143 Planning in an Era of Changes

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Phyllis C M LI

OBJECTIVES: The objectives of the course are for students to obtain a broad understanding of the global megatrends; the issues of planning and development arising therefrom; and a global perspective of the planning responses to embrace the changes and urban challenges with illustration by some international case studies.

COURSE SYNOPSIS: This course covers an overview of the nature and scope of the global megatrends; the changes arising from the megatrends and the implications on society, the physical environment and the global economy; how the current planning concepts address the changes and urban challenges in different countries; and the reflection on how planning can contribute towards the achievement of the sustainable development goals.

LECTURE TOPICS:

- Global megatrends and an era of changes
- Urban challenges, sustainable development goals, new urban agenda and the contribution of planning
- Planning for a liveable and inclusive city
- Embracing the changing urban economy
- Creating environmental capacity
- New urban growth areas and urban innovations: Overseas case studies
- Smart city: Overseas case studies
- Regional development and new urbanization initiatives in China
- The Guangdong-Hong Kong- Macao Greater Bay Area initiative
- Hong Kong 2030+: strategic planning in the changing context
- An inclusive, smart, green and resilient city strategy for Hong Kong
- Field visit to urban innovation projects

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 individual essay
- 1 individual field visit report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have an overview of the nature and scope of global megatrends	✔	✔					Essay & exam
2	understand the changes arising from the megatrends and the implications on society, the physical environment and the global economy		✔		✔			Essay, field visit report & exam
3	analyze the global urban agenda and current planning concepts to address the changes and urban challenges in different countries			✔	✔			Essay, field visit report & exam
4	reflect on how planning can contribute towards the sustainable development goals					✔	✔	Essay, field visit report & exam
5	understand and use of common planning and urban development related terminology	✔					✔	Essay & exam
6	apply analytical skills and judgement in examining the changing global megatrends, urban development issues and planning responses in different countries		✔	✔				Essay, field visit report & exam
7	understand common statistics, criteria and benchmarking indices employed			✔	✔			Essay & exam
8	synthesise data, information and supporting material in writing essays and reports			✔	✔			Essay, field visit report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Pacione, M. (2009) Urban Geography: A Global Perspective, Routledge.
- The United Nations (2015) Transforming Our World: the 2030 Agenda for Sustainable Development.
- The United Nations (2016) New Urban Agenda.
- HKSAR Government (2016) Hong Kong 2030+: Towards a Planning Vision and Strategy Transcending 2030, Public Engagement Booklet and Topical Papers.

GEOG2144 The Evolution of Transport Policy in Hong Kong

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Mr W H TSANG

OBJECTIVES: The course aims to provide students with basic concepts and academic knowledge on transport policy and planning with a view to broadening their vision and understanding on the development of transport systems.

COURSE SYNOPSIS: The course introduces students to the challenges of increasing travel demand, impacts on people, process of policy formulation, structure of governmental control, engagement of stakeholders and evaluation of performance. With reference to the case of Hong Kong, the evolution of the planning process and the development of policy instruments are illustrated. To provide a future outlook, an overview of recent trends and near-term prospects within the wider context of sustainability for delivery of transport services is introduced.

LECTURE TOPICS:

- Introduction to transport policy and planning
- Transport policy and strategy formulation
- Transport planning and analysis
- CTS and transport strategy in Hong Kong
- Government and politics in relation to transport
- Social, economic and environmental issues of transport
- Transport demand management and control
- Relationship of land use and transport planning
- Transport infrastructures and PPP
- Public transport policy and planning
- Technological development and smart mobility

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay
- 1 group self-guided field trip report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand regulatory bodies on transport matters and the importance of transport policy as a necessary aspect of governance	✔	✔					Essay, field trip report & exam
2	demonstrate knowledge about transport problems and the development of subsequent remedial measures through the evolution of transport policy			✔	✔			Essay, field trip report & exam
3	explain the transport planning process and the key issues determining policy options			✔	✔		✔	Essay, field trip report & exam
4	recognize the recent trends and the possible future outlook of the transport system		✔		✔			Essay, field trip report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Dimitriou, H.T. and Gakenheimer, R. (2010). Urban Transport in the Developing World: A Handbook of Policy and Practices. Edward Elgar Publishing, UK.
- Anthony Gar-On Yeh, Peter R Hills & Simon Ka-Wing Ng (2001) Modern Transport in Hong Kong for the 21st Century.
- Banister, D. (2002). Transport Planning (Second Edition). Spon Press, London.
- Nakagawa, D. and Matsunaka, R. (2006). Transport Policy and Funding. Emerald Group Publishing Limited, UK.
- Transport Department (HKSAR) (1999) The Third Comprehensive Transport Study : Final Report.

GEOG2145 Introduction to Disaster Risk Management Techniques

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Steven Hongsheng ZHANG

OBJECTIVES: This course will inform, explain, analyze, interpret and communicate the role of geo-information technologies in disaster situations (tsunamis, earthquakes, fires, landslides, anthropogenic disasters) and improvement of their use in adequate operations with aim to show their till now under-evaluated potentials and way how to integrate knowledge of cartographic and geographic community to risk and crises management into wide decision making process.

COURSE SYNOPSIS: Geo-information technologies are remarkably appropriate for the requirements of disaster risk management, which has been increasingly used in past years. In order to design a new framework in pre-disaster and disaster management safety/security/privacy aspects of institutions and citizens need to be considered. All this can only be achieved by demonstrating new research achievements, sharing best practices (e.g. in the health area) and working towards the wider acceptance of geospatial technology in society, with the help of education and media.

LECTURE TOPICS:

- Introduction to Natural Disasters Science
- Disaster Management Framework
- Data Preparedness, Sharing and Management
- Risk Assessment and Early Warning
- Emergence Management
- Post Disaster Recovery

ASSESSMENT:

Examination 40%

- 1.5 hours

Coursework 60%

- 2 lab exercises
- 1 individual project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand fundamental knowledge about disaster risk management	✔	✔			✔		Lab assignment, Individual project & final exam
2	gain basic and general geo-information technology framework for risk and crises management	✔		✔			✔	Final exam
3	understand technical skills of risk assessment for typical disasters	✔	✔	✔			✔	Lab assignment, Individual project & final exam
4	get technical skills of using remote sensing and GIS for early warning and emergency response				✔	✔	✔	Lab assignment, Individual project & final exam
5	understand the assessment of damage and recovery from crises	✔	✔	✔	✔	✔	✔	Lab assignment, Individual project & final exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Tomaszewski, B. 2014, Geographic information systems (GIS) for disaster management. Routledge.
- Haimes, H, Y. 2009, Risk Modeling, Assessment, and Management, 3rd ed., Wiley, New York.
- Marvin Rausand. 2010, Risk assessment: theory, methods, and applications. Wiley, New York.
- Milan Konecny, Sisi Zlatanova, Temenoujka L. Bandrova. 2010, Geographic Information and Cartography for Risk and Crisis Management: Towards Better Solutions. Springer-Verlag Berlin Heidelberg.

GEOG2146 Environmental Modelling for Climate Change and Air Quality

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Hugo W L MAK

OBJECTIVES: This course explores the contemporary challenges facing to climate change and air quality studies. It provides students with a fundamental understanding of the concepts and techniques used in climate and air quality modelling and their relevant applications on future mitigation planning.

COURSE SYNOPSIS: This course introduces students to the fundamental knowledge of the earth's climate and air quality system. It covers various topics including meteorology, oceanography, physics and chemistry to better understand the dynamics of global climate change and air quality. A set of modelling tools including dynamic/statistical downscaling, pattern scaling and land-use regression will be introduced to the class and allows students to interpret global climate and air quality data (spatial data) for studying local impacts. Students must complete three data analysis exercises and a group project on a contemporary climate change and air quality issue.

LECTURE TOPICS:

- Theoretical fundamentals of optical, radar remote sensing
- Introduction to the earth's climate system and modelling
- Future climate projection scenarios and its assumptions, limitations, and uncertainties
- Climate and air pollution (aerosols) interaction
- Climate and air pollution extremes
- Climate and air quality data processing techniques (e.g., dynamic/statistical downscaling, pattern scaling and land-use regression)
- Adaption and mitigation strategies

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 2 lab exercises
- 1 individual essay
- 1 oral presentation/poster

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	obtain knowledge of the basic concepts, methods, and applications in climate change and air quality	✔	✔					Lab exercises, oral presentation, project report & exam
2	understand the limitations and uncertainties of climate and air quality data generated from different numerical techniques	✔	✔	✔	✔			Lab exercises, oral presentation, project report & exam
3	learn and become familiar with the quantitative techniques used to climate change and quality studies			✔	✔		✔	Lab exercises, oral presentation, project report & exam
4	be able to choose a proper dataset for use in studying the local environmental issue			✔	✔		✔	Lab exercises & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Air Quality Modeling (2003) Vol. I-III. Paolo Zannetti. EnviroComp/A&WMA.
- John H. Seinfeld, Spyros N. Pandis (2016) Atmospheric Chemistry and Physics: From Air Pollution to Climate Change, 3rd Edition. New York: Wiley. ISBN:978-1-118-94740-1.
- Moses Eterigho Emetere (2019) Environmental Modeling Using Satellite Imaging and Dataset Re-processing. Springer International Publishing (e-book). ISBN 978-3-030-13405-1.

GEOG2147 Building Smart Cities in GIS

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Mr Kelvin SHUM (Co-ordinator), Dr Winnie TANG

OBJECTIVES: The aim of this course is to provide an awareness of the importance of GIS to building Smart Cities and the ways in which the technology can be integrated with other ICT in order to support different aspects in urban development. It will present Smart City concepts and applications and also cover the operation skills needed to use GIS software and geospatial cloud technology to build web-based GIS applications.

COURSE SYNOPSIS: Transforming into a Smart City is a hot topic in Hong Kong and around the world. The concept of a Smart City is based on the application of Information and Communications Technology (ICT) across various aspects of the city to connect and integrate its systems and services for better synergy and efficient use of resources. There is no doubt that the data and systems that support Smart City development are location–based, a process which must be managed and applied by using Geographic Information System (GIS). This course provides an introduction to Smart Cities and how various GIS applications are being used and integrated in Smart Cities to support urban planning, city monitoring and citizen engagement. It also explores the relationships between GIS and other technologies such as 3D, Artificial Intelligence (AI), Big Data and Internet of Things (IoT) under various Smart City aspects. Throughout the course, students will learn the Hong Kong Smart City Blueprint and how to operate GIS software, gain hands-on experience in processing geospatial open data, and work with a commercial geospatial cloud package to build web and mobile GIS applications that facilitate Hong Kong's transformation into a Smart City.

LECTURE TOPICS:

- Introduction to Smart City and its Components
- Enabling technologies for Smart City
- GeoSpatial Open Data and Common Spatial Data Infrastructure
- Using 3D GIS in Smart City Planning and Development
- Using Web GIS and GeoSpatial Cloud in Smart City Applications Delivery
- Using Mobile GIS in Smart City Data Collection and Public Engagement
- Handling Real-Time GeoSpatial Data for Smart City Parameters Monitoring
- Applying Spatial Analytics to Solve Spatial Problems and Predictive Analysis in Smart City Planning

ASSESSMENT:

Examination 0%

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Coursework 100%

- GIS Lab Work
- Individual Paper
- In-class Participation
- In-class Quiz
- Group Project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	define and understand the concepts of Smart Cities and recognize Smart City development directions of Hong Kong	✔					✔	GIS lab work, individual paper, in-class participation, in-class quiz & group project
2	know the relationships and importance of using GIS in Smart Cities		✔		✔			GIS lab work, individual paper, in-class participation, in-class quiz & group project
3	use GIS to build applications for the development of Smart Cities			✔		✔	✔	GIS lab work, individual paper, in-class participation, in-class quiz & group project
4	acquire GIS software operation skills						✔	GIS lab work, individual paper, in-class participation, in-class quiz & group project
5	process GeoSpatial Open Data						✔	GIS lab work, individual paper, in-class participation, in-class quiz & group project
6	build GIS applications using GeoSpatial Cloud technology						✔	GIS lab work, individual paper, in-class participation, in-class quiz & group project

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Hong Kong Smart City Blueprint. HKSAR Government, 2017, The Smart City for Hong Kong, www.smartcity.gov.hk/.
- Kumar, TM Vinod. Geographic Information System for Smart Cities. Copal Publishing Group, 2014.
- Tang, Winnie. Smart City 3.0. 1st ed., Smart City Consortium, 2017, Smart City 3.0, http://arcg.is/2jw4uOM
- Harder, Christian. The ArcGIS Book. Edited by Clint Brown, 2nd ed., Esri Press, 2017, The ArcGIS Book, http://learn.arcgis.com/en/arcgis-book-series/.
- Fu, Pinde. Getting to Know Web GIS. 3rd ed., Esri Press, 2018

GEOG2148 Transport Accessibility in Europe

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr André MUELLER

OBJECTIVES: The course objectives are to familiarise students with a basic understanding of spatial structures, development trends, planning instruments and governance mechanisms of transport accessibility in Europe and particularly in Germany by taking a people- and demand-oriented geographical approach.

COURSE SYNOPSIS: The course provides an understanding of spatial structures, development trends, planning instruments and governance mechanisms of transport accessibility in Europe in general as well as in Germany in particular by taking a people- and demand-oriented geographical approach. This approach emphasises the role of people, the private sector and institutions in determining the development and use of transport systems as well as the role of transportation in serving humankind's daily life and possibly changing its life style and mobility through enhancing transport accessibility. The course covers fundamental elements of transport accessibility and demand analysis, decision support systems, instruments and regulations of spatial and urban planning as well as urban and regional development strategies and governance mechanisms with relevance to infrastructure investments and implementation reporting. Various case studies of transport systems in Europe provide explanations on the dynamics of transport in different geographical situations and its accessibility for people and goods as well as its interaction with development strategies, activities and actions in cities and regions.

LECTURE TOPICS:

- Spatial structures, territorial dynamics and development trends in transport accessibility
- Planning instruments, governance mechanisms and financial instruments
- Positioning of stakeholders
- Demand analysis, accessibility and mobility patterns, methodologies of geographical analysis
- Data sourcing, data analysis and data modelling
- Quantitative and qualitative evidence-based reporting
- Transport accessibility case studies of high-densely populated areas
- Transport accessibility case studies of low-densely populated areas
- Transport accessibility case studies of areas with geographical specificities
- Interactions between transport accessibility and urban and regional development strategies as well as activities
- Writing styles of an evidence-based and informative press briefing on research outcomes
- Out-of-the-box thinking on sustainable spatial development as well as transport

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 group research project
- individual course participation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	analyse and understand spatial structures, development trends, planning instruments and governance mechanisms of transport accessibility in Europe as key developer and at all geographical scales	✔	✔					Examination
2	comprehend the various stakeholders and individual modes of transport as well as their role in changing mobility and accessibility patterns	✔	✔					Examination
3	decode the impact of transport on globalization and the sustainable development of cities, regions, continents and planet earth	✔						Examination, individual course participation
4	identify, collect and use primary and secondary data as well as applying basic methodologies of the geographical analysis of transport systems and their accessibility			✔				Group research project
5	decompose the complex world of transport interactions by taking different geographical and stakeholder perspectives				✔			Group research project
6	understand the intertwined phenomenon of transport in affecting geographical patterns of humankind's daily life as well as planning processes, governance mechanisms, investment decisions and reporting styles					✔	✔	Group research project

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- BBSR – Federal Institute for Research on Building, Urban Affairs and Spatial Development (ed.) (2019): Die Unterschiede bestimmen die Vielfalt. Ein Atlas ausgewählter Aspekte räumlicher Strukturen und Entwicklungen (Differences Determine Variety. An Atlas on Selected Aspects of Spatial Structures and Trends), Bonn, access: https://www.bbsr.bund.de/BBSR/DE/veroeffentlichungen/sonderveroeffentlichungen/2019/europa-atlas-dl.pdf?__blob=publicationFile&v=1
- ESPON – European Spatial Planning Observation Network (ed.) (2011): Territorial Dynamics in Europe: Trends in Accessibility, Luxembourg, access: https://www.espon.eu/topics-policy/publications/territorial-observations/territorial-dynamics-europe-trends-accessibility
- Eskelinen, H.; Hirvonen, T. (eds.) (2006): Positioning Finland in a European Space. Helsinki
- Geurs, K.T.; Krizek, K.J.; Reggiani, A. (eds.) (2012): Accessibility Analysis and Transport Planning: Challenges for Europe and North America, Edward Elgar Publishing, Cheltenham / Northampton
- Göddecke-Stellmann, J. et al. (2011): Metropolitan areas in Europe, BBSR-Online-Publikation 01/2011, BBSR – Federal Institute for Research on Building, Urban Affairs and Spatial Development, Bonn, access: https://www.bbsr.bund.de/Migration/BBSR/EN/Publications/OnlinePublications/2011/DL_ON012011.pdf?__blob=publicationFile&v=1
- Hoyle, B.S.; Knowles, R. (1998): Modern Transport Geography, 2nd edition, John Wiley & Sons, Hoboken
- Knowles, R.; Shaw, J.; Docherty, I. (eds.) (2008): Transport Geography. Motilities, Flows and Spaces, Blackwell, Oxford
- ISO – International Organization for Standardization (ed.) (no date): ISO TC 268 / SC 1 Smart Community infrastructures, Geneva, access: https://www.iso.org/committee/656967.html
- Pütz, T.; Schönfelder, S. (2018): Verkehrsbild Deutschland. Angebotsqualitäten und Erreichbarkeiten im öffentlichen Verkehr (Transport Image Germany. Supply Quality and Accessibility of Public Transport), BBSR-Analysen KOMPAKT 08/2018, BBSR – Federal Institute for Research on Building, Urban Affairs and Spatial Development, Bonn, access: https://www.bbsr.bund.de/BBSR/DE/veroeffentlichungen/analysen-kompakt/2018/ak-08-2018-dl.pdf?__blob=publicationFile&v=1
- Spiekermann, K.; Wegener, M. (2015): ESPON TRACC. Transport Accessibility at Regional/Local Scale and Patterns in Europe (2010-2014), ESPON – European Spatial Planning Observation Network, Luxembourg, access: http://www.spiekermann-wegener.de/pro/espontracc_e.htm

GEOG2149 Financial Geography

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr James H LENZER JR

OBJECTIVES: After completing this course, students are expected to understand the overlapping themes of financial geography and their interaction in regard to: the financial sector (personal savings, corporate finance, intermediaries and financial markets), cross sectors (financial centers, networks, fintech and infrastructure), development (equity, justice and responsible investment) and perspectives (financialization, sociology, anthropology and political economy) and how their interplay in terms of place and space drives and shapes development on local, regional and global scales.

COURSE SYNOPSIS: This course introduces students to a wide range of topics covered under the recently emerged field of financial geography. It not only focuses on the spatial aspects of global finance and 21st century global capitalism, but incorporates the role of human agency, institutions and the state in how the human landscape is developed physically, economically and socially in regard to finance.

LECTURE TOPICS:

- The themes and foci of financial geography as a social science paradigm
- International financial centers I: Introduction and transformation
- International financial centers II: Globalization as a driving force
- International financial centers III: Epistemological evolution and geographical explanation
- International financial centers IV: The competiveness factors—Case study of London
- International financial centers V: Chinese international financial centers and their spatial restructuring
- International financial centers VI: Spatial agglomeration
- Venture Capital Centers: The theory of dual economies—Case studies of Silicon Valley and Beijing
- Financialization I: The globalization of finance—Case study of the US subprime Mortgage Crisis
- Financialization II: The selective and uneven spatial development induced by financialization
- Financialization III: Financialization of urbanization—Case study of China
- Global financial networks
- Field trip: Hong Kong as an International Financial Center

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- Essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	identify the four overlapping themes of financial geography and explain how they interact with one another	✔	✔			✔		Essay & examination
2	understand the defining characteristics of financial centres and the driving forces behind their spatial agglomeration.	✔	✔	✔	✔		✔	Essay & examination
3	utilize historicism to account for the development of financial markets and where these activities occur	✔	✔	✔	✔		✔	Essay & examination
4	define and understand network theories and how they relate to global financial networks and their implications on local, regional and global economies	✔	✔				✔	Essay & examination
5	identify the different financialization processes and their social and spatial impacts	✔	✔					Essay & examination
6	understand the social and economic consequences (injustices) of contemporary financial markets and where these take place	✔	✔	✔	✔	✔	✔	Essay & examination

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Cassis, Y. (2006). Capitals of capital: A history of international financial centres, 1780-2005. Cambridge, U.K.: Cambridge University Press.
- Clark, G., Feldman, M., Gertler, M., Wójcik, D., & Kaiser, A. (2018). The new Oxford handbook of economic geography (First ed.). Oxford, United Kingdom; New York, NY: Oxford University Press. Chapters 28-33.
- Clark, G., & Wójcik, D. (2007). The geography of finance: Corporate governance in the global marketplace. Oxford; Hong Kong: Oxford University Press.

GEOG2150 Introduction to China's Environmental and Sustainable Development Issues

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr X LI

OBJECTIVES: The course aims to enhance students' understanding of the environmental issues in China, the strategy for tackling them and the prospect of achieving sustainability for such a great country.

COURSE SYNOPSIS: China is prone to natural resources degradation due to its geographic characteristics and its large population. Environmental problems have been accelerated by not only the rapid economic growth of recent years but also the high intensity of energy use, particularly in the industrial sector. These factors combined with economic and pricing policies failing to account for the intrinsic value of natural resources have led to their over-exploitation. This course provides a general overview of China's natural environment; examines its institutional, legislative and administrative frameworks in environment protection and nature conservation; and discusses the government's strategies for environmental protection and sustainable development.

LECTURE TOPICS:

- Geographical background. The state of the environment in China
- Underlying causes for environmental degradation
- Concepts and approaches related to urban environments and sustainable development
- National policy, institution, laws and regulations
- Policy instruments for environmental management
- State's policy and strategy for sustainable development

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 group term paper

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	gain an overview of the state of the environment in China	✔	✔					Exam
2	obtain a comprehensive knowledge of the strategy and policy framework for environment protection and nature conservation in China		✔		✔			Exam
3	describe key urban natural systems and apply major concepts and approaches related to urban environments and sustainable development			✔				Term paper & exam
4	enhance their understanding of government's policy and strategies for sustainable development				✔			Term paper & exam
5	evaluate the causes of environmental problems in China			✔	✔			Term paper & exam
6	think critically about the relationship between economic development and environmental protection in China					✔	✔	Term paper & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Day, K.A. (Ed.) (2005) China's Environment and the Challenge of Sustainable Development, Armonk, N.Y.: M.E. Sharpe.
- Economy, E. (2010) The River Runs Black: The Environmental Challenge to China's Future. Ithaca: Cornell University Press.

GEOG2152 Health and Medical Geography

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Calvin P TRIBBY

OBJECTIVES: This course will provide students with a broad overview of the theories, methods, and applications of the geographies of health with specific contemporary public health examples.

COURSE SYNOPSIS: This course introduces students to the history, theories and methods of the Health and Medical Geography subfield. We will explore topics from the perspective of health equity. Topics include tools of the field, social, biologic and spatial determinants of health, urban and rural health, the health transition and chronic disease, and climate change and health. This course will incorporate discussions on current, regional events to highlight the importance of various geographic aspects to understanding the many dimensions of health.

LECTURE TOPICS:

- Introduction and history
- Review of tools, mapping and spatial analysis
- Spatial policies and communicable diseases, especially the covid-19 response
- Social determinants of health
- Built environments and health
- Geographies of food, diet, nutrition and physical activity
- Urban and rural health
- Health transition
- Geography of chronic disease
- Exposome, microbiome, and genome
- Climate change and health

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 3 reports on assigned readings or current events topic

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	describe the historical beginning of the health and medical geography subfield and key developments	✔					✔	Report & exam
2	summarize key methods and tools used in health and medical geography			✔				Exam
3	illustrate the interaction between social, biologic and spatial determinants of health with a concrete example	✔	✔		✔	✔	✔	Report & exam
4	apply geographic theories to interpret current public health affairs	✔		✔	✔			Report & exam
5	explain the links between climate change and health and the forecasted health effects of continuing climate change	✔	✔		✔		✔	Report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Emch, M., Root, E. D., & Carrel, M. (2017). Health and medical geography (Fourth edition). Guilford Press, New York
- Gatrell, A. C., & Elliott, S. J. (2014). Geographies of health: An introduction. John Wiley & Sons, West Sussex, UK.

GEOG2153 Smartphones, K-pop, and Kimchi: South Korea Beyond the Miracle

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Keumseok (Peter) KOH

OBJECTIVES: This course aims to broaden students' understanding of the relationship between South Korea and East Asia by providing relevant theoretical frameworks and analytic tools in human geography and presenting case studies in the era of globalisation.

COURSE SYNOPSIS: Since the 1960s, Korea has experienced remarkable changes in its economy, culture, and politics. South Korea is the fifth principal trading partner to Hong Kong in 2018 whereas Hong Kong is the fourth top trading partner to South Korea. Today, Koreans have become one of the larger ethnic minority groups in Hong Kong. It is thus timely for Hong Kong students to gain a better understanding of the Korean culture and its current societal issues. This course provides an overview of Korea's path to its recent success and developments from the historical, socioeconomic, and cultural perspectives. Topics covered include the top-down economic development until the 1980s, transfer from authoritarian to democratic governments, post-industrial innovative strategies including technology, entertainment, and tourism, and continuing geopolitical tensions with North Korea and neighbouring superpowers.

LECTURE TOPICS:

- Introduction
- Korean entertainment and pop culture invasions since the 2000s: From "Gangnam" style to BTS pop group to the Oscar-winning movie named "Parasite"
- Toward a post-industrial society since 1997
- Miracle on the Hangang River from the 1960s to 1997
- Korea before the 1960s: influences from China, Japan, and the Korea War
- Field Trip to the Korean Cultural Centre in Hong Kong
- From authoritarian to democratic governments
- Korean food: Kimchi, soju, and fried chickens
- Hong Kong and South Korea: mutual influences
- The other Korea: North Korea since 1945
- Future of Korea: Challenges and Opportunities
- Group project poster presentation

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay
- 1 group poster presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand major characteristics of Korea's industrial and post-industrial development trajectories		✔	✔	✔			Essay, group poster presentation & exam
2	recognise the importance of East Asian region in the context of globalisation	✔		✔	✔			Essay, group poster presentation & exam
3	compare and contrast various aspects of socioeconomic and cultural developments between Hong Kong and South Korea		✔			✔	✔	Group poster presentation & exam
4	proficiency to apply concepts and theories in human geography to understand current social issues in Hong Kong and beyond	✔				✔	✔	Essay & exam
5	develop analytical and writing skills by utilising primary and secondary sources		✔	✔			✔	Essay, group poster presentation & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Choi, J. N., Lee, Y. S., & Shin, G. W. (Eds.). (2018). Strategic, Policy and Social Innovation for a Post-Industrial Korea: Beyond the Miracle. Routledge.
- Kim, Y. (Ed.). (2016). Routledge Handbook of Korean Culture and Society. Taylor & Francis.
- Kuwahara, Y. (Ed.). (2014). The Korean wave: Korean popular culture in global context. Springer.
- Chow, K., Doak, K. M., & Fu, P. (2001). Constructing nationhood in modern East Asia. University of Michigan Press.
- Calder, Kent E., and Min Ye. (2010). The Making of Northeast Asia. Stanford University Press.

GEOG2154 Healthy Food, Place, and Sustainability

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Keumseok (Peter) KOH, Dr Nicky Y F LAM

OBJECTIVES: To introduce students to basic concepts, theoretical frameworks, and analysis methods related to the global food system and relevant social and environmental issues around food production, acquisition, and consumption.

COURSE SYNOPSIS: As a basic human need and right, food is at the centre of our everyday lives. In the context of globalisation, food involves a complex system encompassing population health, culture, agribusiness, and ecosystem through its production, acquisition, and consumption. Examining food from the perspectives of physical and human geography enables better awareness of what it takes to lead a healthy lifestyle and for the societies to achieve sustainable development. This course provides students with an interdisciplinary and holistic understanding of food system and environment around the world. Topics covered include global food production and trade, agribusiness, food culture and politics, genetic engineering and organic food, food security and sovereignty, healthy dietary habits, sustainable food policy, Hong Kong and Chinese food culture, and the future of food. Students will become proficient in the use of various concepts and theories in geography to understand, compare and evaluate food-related topics enacted at different scales. A field trip will be offered to expand students' horizons on local food environment.

LECTURE TOPICS:

- Introduction
- Globalization of food system
- Food production from agriculture to agribusiness
- Genetic engineering versus organic food products
- Climate change, sustainability and food system I
- Food culture and politics
- Local field trip
- Food and healthy lifestyle
- Food security and sovereignty
- Hong Kong and Chinese food culture
- Future of food
- Group project poster presentation

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual essay
- 1 group poster presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand geographical distribution and methods of food production, acquisition, consumption, and cross-border trade at local, regional, and global scales		✔	✔	✔			Essay, group poster presentation & exam
2	acquire an understanding of the complex interplay among food system, society, and environment	✔		✔	✔			Essay, group poster presentation & exam
3	recognise the importance of food security, sustainable food system and population health		✔			✔	✔	Essay, group poster presentation & exam
4	apply the acquired knowledge (in conjunction with a range of academic skills) to propose a sustainable food system for the future	✔		✔		✔	✔	Essay & exam
5	evaluate environmental and societal impacts of different food production and consumption methods	✔		✔			✔	Group poster presentation & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Oosterveer, P., & Sonnenfeld, D. A. (2012). Food, globalization and sustainability. Routledge.
- Ackerman-Leist, P. (2013). Rebuilding the foodshed: How to create local, sustainable, and secure food systems. Chelsea Green Publishing.
- Lobell, D. B., & Burke, M. (Eds.). (2009). Climate change and food security: adapting agriculture to a warmer world (Vol. 37). Springer Science & Business Media.
- Schanbacher, W. D. (2010). The politics of food: the global conflict between food security and food sovereignty. ABC-CLIO.
- Weis, A. J., & Weis, T. (2007). The global food economy: The battle for the future of farming. Zed Books.

GEOG2155 Introduction to Air Freight Logistics and Transport

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Mr Cliff SULLIVAN

OBJECTIVES: The course aims to introduce students to the field of air freight transport and logistics which is one of the key pillars of the economy of Hong Kong. The course also seeks to stimulate students' interest in the transport and logistics field.

COURSE SYNOPSIS: This course offers an introduction to air freight logistics and transport in relation to the world economic activities with reference to Hong Kong and South China. The course examines the role of air transport in the movement of commodities from a spatial perspective. It will examine how the changes in economic activities shape the development of air freight logistics and transport.

LECTURE TOPICS:
- Introduction to freight transport
- Geography of air transport
- International trade and air freight transport
- Key stakeholders in air freight logistics and transport sector
- Role of air freight logistics and transport in supply chain management and economic development
- Operations and management of air freight logistics and transport
- Safety and security measures and requirements in respond to the change in human activities
- Air freight logistics development in shaping spatial changes and urban planning
- E-commerce and the shaping of air freight logistics and transport
- Future and prospects

ASSESSMENT:

Examination 40%
- 2 hours

Coursework 60%
- 1 individual essay
- 1 group field trip report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the importance of air freight logistics in the transport sector and its role in economic activities	✔	✔					Individual essay, group field trip report & exam
2	have basic knowledge of air freight logistics and transport	✔	✔			✔		Individual essay, group field trip report & exam
3	recognise the challenges and problems of air freight transport			✔	✔	✔	✔	Individual essay, group field trip report & exam
4	appreciate its role in shaping spatial and urban planning and its contribution to economic development			✔	✔	✔	✔	Individual essay, group field trip report & exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:
- Contemporary Transportation 3rd edition by Donald F. Wood , James C.Johnson
- Strategic Airline Management : The global war begins by Louis Gialloreto
- Principles of Transport 4th edition by Rex W.Faulks
- Air cargo News , Payload, HK Shipping Gazette

GEOG2156 Geographical Image Processing Techniques and Analyses

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Hugo W L MAK

OBJECTIVES: This course aims to provide students with the following techniques and experience, (1) Image processing techniques for extracting thematic and/or quantitative information from raw images and remote sensing datasets, for example signals and images captured by satellites; (2) Comprehensive understanding of image processing techniques to handle remotely sensed images of different aspects, for example urban land-use, forests, geoscience and air pollution applications; (3) Hands-on experience to analyze remotely sensed imageries for making geographical and environmental decisions; (4) Gaining knowledge of the latest research articles in above-referenced areas, summarizing image processing techniques applied, and outlining possible future extension.

COURSE SYNOPSIS: Handling images and extracting observable spatial and temporal patterns from image spectrums are indispensable components in geography. Examples of key applications include analyzing thematic maps of topography, land use patterns and geophysical datasets. Thus, image processing techniques play important roles in extracting quantitative and thematic information from available datasets, for example satellite and LiDAR measurements. This course will focus on introducing fundamental image processing techniques, geographical attributes and statistical indices in optimizing visualization, as well as identifying geographical features and spatial characteristics. Key topics include image quality assessment, image fusion, geometric correction and image enhancement. Case studies in geographical and environmental aspects will also be explored. Students will conduct hands-on experience to interpret remotely sensed imagery datasets, have in-class discussion of latest research trends in image processing and its geospatial applications, finish a group project and deliver an oral presentation at the end of this course. These activities will broaden students' comprehension of theoretical and practical aspects of image processing, which will be useful in making important geographic and environmental decisions in future.

LECTURE TOPICS:

- Overview of available types of Remote Sensing Imageries
- Data Collection: Digital Image Processing & Analog Image Digitization
- Elementary Image Processing Techniques
- Image Quality Assessment, Geostatistical Evaluation and Indices for Sensors
- Geographical and Scientific Visualization (e.g., Digital Image Display, RGB Color Coordinate System, Image Fusion, Geometric Correction and Image Enhancement)
- Case Studies and Applications (e.g., Multi-spectral satellite imagery, Land Use Pattern and Urban Landscape Applications, Spatial and Temporal Variations of Air Pollutants, Atmospheric Retrieval etc.)

ASSESSMENT:

Examination 40%

- 2 hours

Coursework 60%

- 1 group project (including oral presentation, report and individual continuous assessment)

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	acquire fundamental image processing concepts and techniques in handling available datasets, in particular satellite images		✔	✔	✔			Group Project & Exam
2	demonstrate knowledge in the following aspects: acquisition of satellite images, data analysis, image quality assessment, statistical evaluation, understanding of different geographical indices, and visualization of images in scientific approaches			✔	✔		✔	Group Project & Exam
3	relate the interpreted images to daily life applications, and make corresponding geographic and environmental decisions	✔	✔			✔	✔	Group Project & Exam
4	recognize latest trends of image processing techniques in real-world applications, and develop confidence in delivering a professional presentation among peers	✔		✔	✔		✔	Group Project

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Jensen, J.R. (2015). Introductory Digital Image Processing: A Remote Sensing Perspective (4th edition). Pearson Series in Geographic Information Science, Pearson.
- Liu, J.G. and Mason, P.J. (2016). Image Processing and GIS for Remote Sensing – Techniques and Applications (2nd Edition). Wiley Blackwell, UK.
- Dong, P. and Chen, Q. (2018). LiDAR Remote Sensing and Applications (1st edition). Taylor & Francis Series in Remote Sensing Applications, edited by Weng, Q., CRC Press Taylor & Francis Group, Boca Raton.
- Borra, S., Thanki, R. and Dey, N. (2019). Satellite Image Analysis: Clustering and Classification. Springer.

GEOG2157 Open-source GIS

 # Fulfill requirements of method-related courses

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Yongsung LEE

OBJECTIVES: This course has two main objectives. Firstly, it aims to demonstrate the increasing capacity of open-source GIS in disseminating spatial data sets in non-conventional formats. Secondly, it aims to impart practical skills in manipulating and analyzing data sets from both public and proprietary sources.

COURSE SYNOPSIS: Advancement in information and communication technologies have led to unprecedented increases in spatial data in non-conventional formats. These data contain rich information about various parts of life in the cities and their management. Open-source GIS has thus become a critical tool for the retrieval, manipulation, analysis, and visualization of such data. We know that active user communities behind open-source GIS (e.g., Stack Exchange and GitHub) support effective and expedient handling of new forms of data, whereas commercial GIS software (e.g., ESRI ArcGIS) provides a reliable analytical environment for wide-ranging applications. In this context, the course introduces spatial analysis and data visualization options via open-source GIS. As an introductory course to undergraduate students in the lower division, this course includes a showcase of diverse datasets and their potential values, and hands-on practices about uses of these datasets. Upon completion of the course, students will be able to identify and handle relevant data, as well as apply spatial analysis tools to uncover patterns and processes in contemporary urban living environment.

LECTURE TOPICS:

- Basics in programming (e.g., variable/data types, join, iteration, and user-defined functions)
- Processing of data with spatial information (e.g., spatial join and processing)
- Retrieval and manipulation of data in various formats from diverse sources (e.g., Social Network Services (SNS), search engines, apps for business reviews, housing transactions, and mobility services)
- Communication with the non-technical audience, via interactive maps and charts (e.g., online dashboard)

ASSESSMENT:

Examination 0%

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Coursework 100%

- Individual weekly lab assignments
- Individual mini projects
- Group term project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand basic knowledge in open-source GIS (e.g., variable/data types, join, iteration, and user-defined functions)			✔	✔			Weekly lab assignments
2	Handle data with spatial information (e.g., spatial processing of ESRI shapefiles and geocoded data)	✔	✔	✔	✔			Weekly lab assignments, mini projects & term project
3	collect and manipulate data in various formats from diverse sources, both public and proprietary	✔	✔	✔	✔			Weekly lab assignments, mini projects & term project
4	communicate underlying spatial patterns and processes to the non-technical audience, with intuitive, visually appealing, and interactive maps and charts			✔	✔	✔	✔	Mini projects & term project

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Lovelace, R., Nowosad, J., & Muenchow, J. (2019). Geocomputation with R. Boca Raton, FL: CRC Press.
- Singleton, A. D., Spielman, S., & Folch, D. (2017). Urban Analytics (Spatial Analytics and GIS). Los Angeles, CA: Sage Publications Inc.
- Bivand, R. S., Pebesma, E. J., & Gomez-Rubio, V., (2013) Applied Spatial Data Analysis with R (2nd Edition). NY, NY: Springer.

GEOG2158 Urban Sustainability and Climate Governance

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Yunjing LI

OBJECTIVES: The course aims to deepen the understanding of cities as strategic sites for climate governance. It introduces to students both theoretical and empirical information for the city's leading role in responding to climate change. A wide range of governing tools and logics are reviewed to demonstrate the particular advantages, opportunities, and obstacles of different urban climate strategies.

COURSE SYNOPSIS: The issues of climate change have been addressed in urban governance. This course examines efforts to mitigate and adapt to climate change at the city scale. In the first half of the course, we will review the origin and evolution of urban response to climate change and dominant theories about how and why climate is governed in cities. In the second half of the course, we will critically evaluate different approaches to urban climate governance and the new initiatives that are being implemented in different socio-political contexts. We will analyze the advantages and disadvantages of each approach and initiative, discuss the outcome in terms of success and failure, and identify the obstacles encountered. The course also covers new trends and debates in the field of urban climate governance.

LECTURE TOPICS:

- General introduction to the relationship between cities, sustainability, and climate change
- Global frameworks of climate change governance, cities and multilevel climate governance
- Sustainable city, low-carbon city, resilient city, and smart city: a brief history of dominant ideas
- Cities and the environmental state
- The role of cities in socio-technical transitions, urban living labs and experimentation
- GHG inventory and accounting
- Urban planning and design
- Market instruments and the financing of climate infrastructures
- Public participation, community engagement, and local knowledge
- Transnational municipal climate networks
- Green consumption: a perspective from the food sector
- Equity, environmental justice, and urban climate change
- The North/South divide in urban climate action and research

ASSESSMENT:

Examination 40%

- 2 hours

Coursework 60%

- Essay
- Group project
- Class participation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the historical and political contexts of the rise of cities in global climate governance	✔	✔					Essay, class participation & exam
2	recognize main conceptual frameworks of urban responses to climate change	✔	✔					Essay & exam
3	be aware of different initiatives used in addressing climate change at the city scale which draw upon a variety of actors and policy instruments	✔	✔	✔				Group project, class participation & exam
4	demonstrate skills in critically evaluating these initiatives, placing them into their social, political, economic, and cultural contexts			✔	✔			Group project & class participation
5	develop a comparative perspective on urban climate governance and planning in the global South vis-à-vis North				✔	✔	✔	Essay, group project & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Bulkeley, H. (2013). Cities and Climate Change. Routledge, New York.
- Hoffman, M. (2011). Climate Governance at the Crossroads: Experimenting with a Global Response after Tokyo. Oxford University Press.

GEOG2159 Transport Investment

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr André MUELLER

OBJECTIVES: The course objectives are to familiarise students with a basic understanding of how transport infrastructures are financed as well as planned and managed. Core literature and geographically balanced case studies serve as guidance for place-based, people-oriented and fair approaches to transport investment that might need to be taken – now and in the future.

COURSE SYNOPSIS: The course provides an understanding of transport investment by taking a placed-based, people-oriented and fair approach. This approach emphasises the role of the public and the private sector and transport users as well as geographical, financial, cultural and governance-related framework conditions in investing in and planning as well as managing transport infrastructures. Despite phases of interruption or slowing-down, humankind is on a constant move in various forms. Its transport behaviour influences the investment in transport infrastructures and will do so in the future. In addition, urbanisation and transport development will have to be closely interwoven in order to enhance the efficiency of using resources and the resilience of transport systems as well as to address redundancies in infrastructure development and management. The course covers basic elements of financial instruments (with a focus on sustainable finances), transport planning and governance mechanisms. Core literature and a geographically well-balanced set of prime case studies of transport infrastructure investment provide explanation on the ways taken for moving people and goods in cities, regions and territories of various sizes and geographies of planet earth.

LECTURE TOPICS:

- Financing transport infrastructure with a particular focus on sustainable finances
- Planning transport infrastructure
- Managing transport infrastructure
- Mapping urbanisation processes and respective transport accessibility
- Measuring and analysing transport accessibility in cities and regions
- Sourcing appropriate data of the travel behaviour of transport users
- Conducting successful dialogues between transport planners and transport developers
- Understanding legislative framework conditions for transport investment
- Integrating cultural and governance-related framework aspects in transport investment
- Screening case studies of transport infrastructure in cities of various sizes and geographies
- Analysing geographically balanced case studies of transport infrastructure in regions and territories
- Learning to write an evidence-based and informative press briefing on research outcomes

ASSESSMENT:

Examination 40%
- 2 hours

Coursework 60%
- Group research project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	critically analyse the geographically relevant aspects of transport investment and the relationships of its acting stakeholders	✔						Group research project
2	demonstrate and develop an understanding of how these aspects and relationships have changed in territories and over time as well as they might need to materialise in the future in the sense of place-based, people-oriented and fair transport investment		✔					Exam
3	identify, collect and utilise primary and secondary data sources to demonstrate the relationship of urbanisation processes, transport investment and travel behaviour			✔				Group research project
4	decode additional relationships between transport investment and other areas of geography				✔			Exam
5	decompose the complexity of transport investment by taking different stakeholder perspectives and different geographical scales (local, regional, continental, global)					✔		Group research project
6	communicate in a target-oriented way the outcomes of the course group research work and thus the relevance of the course objectives for everybody's everyday life						✔	Group research project

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Barca, F.; McCann, P.; Rodríguez-Poase, A. (2012): The Case for Regional Development Intervention: Place-Based versus Place-Neutral Approaches, Journal of Regional Science, Volume 52, pp. 134-152, Wiley Online Library
- Banister, D. (2018): Inequality in Transport, Alexandrine Press, Marcham
- Dühr, S.; Müller, A. (2015): The Role of Spatial Information in Strategic Spatial Planning, Volume 46, Number 4, April 2012, Regional Studies Association, Routledge, Taylor & Francis Group, London
- Duckert, R.; Müller, A. (2015): New Instruments for Financing Sustainable Regional and Urban Development. CLLD and ITI in Practice as a Contribution towards the Implementation of the Territorial Agenda 2020, Online Publication 15/2015, BBSR – Federal Institute for Research on Building, Urban Affairs and Spatial Development, Bonn
- ESPON – European Spatial Planning Observation Network (2019): SUPER – Sustainable Urbanization and Land-Use Practices in European Regions, access: https://www.espon.eu/super
- Geurs, K.T.; Krizek, K.J.; Reggiani, A. (eds.) (2012): Accessibility Analysis and Transport Planning: Challenges for Europe and North America, Edward Elgar Publishing, Cheltenham / Northampton
- Melo, P.C.; Graham, D.J.; Brage-Ardao, R. (2013): The productivity of transport infrastructure investment: A meta-analysis of empirical evidence, Regional Science and Urban Economics, Volume 43, Issue 5, September 2013, pp. 695-706, Elsevier, Amsterdam

GEOG3104 Globalizing China: Development Issues

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor George C S LIN

OBJECTIVES: To assist students to better understand the process of economic restructuring and spatial transformation in the context of a socialist developing country.

COURSE SYNOPSIS: China's space economy has undergone profound transformation over the past half a century. This course offers a selective evaluation of a number of issues that are critical to understanding China's ongoing economic and spatial transformation. Emphasis is placed on development strategies, agriculture, industry, transport, trade, and urban and regional development since 1949. The driving forces operating behind the scenes of economic transformation and the (un)intended consequences are critically evaluated.

LECTURE TOPICS:

- Theoretical context and framework for development studies
- Agriculture and rural development: Policies, production and distribution
- Industrialization: Performance, structure and regional pattern
- Transportation: Policies, networks, and territorial organization
- Foreign economic relations: Open-door policy, special economic zones, and trade
- Urbanization, urban system and urban planning
- Uneven landscape: Macro regions, spatial inequality, and regional development

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 individual research paper

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	compare and contrast China's economic landscape before and after the 1978 reforms		✔					Research paper & exam
2	appreciate the distinct pattern and process of China's economic transformation	✔						Exam
3	understand how state policies help transform China's economic landscapes	✔						Research paper
4	be aware of the complexity of changing regional inequality				✔			Research paper & exam
5	evaluate the causes and consequences of China's economic reforms				✔			Research paper
6	link state policies with the transformation of China's space economy						✔	Research paper & exam
7	analyze China's development issues in a theoretical and international perspective				✔			Research paper

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Veeck, G., Pannell, C.W., Smith, C.J,, & Huang, Y.C., (Eds.), (2016). China's Geography: Globalization and the dynamics of political, economic, and social change. Lanham: Rowman & Littlefield.
- Wu, W., & Gaubatz, P., (2013). The Chinese City. New York: Routledge.

GEOG3202 GIS in Environmental Studies

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor P C LAI

OBJECTIVES: To stimulate interests in GIS activities that play a vital role in environmental applications.

COURSE SYNOPSIS: This course introduces students to the methods of collecting and processing spatial data for environmental monitoring and assessment. The principles of such an approach will be discussed focusing on the nature of environmental data (particularly raster pictures and remote sensing images), data collection by mobile devices, coordinate transformation, 3D terrain modelling, and techniques for visualization. Students will gain GIS operational skills by completing two exercises and a project. An examination comprising short answer questions will be administered during the examination period.

LECTURE TOPICS:
- Introduction to information systems
- Geodata processing
- Environmental modelling and visualization
- Data reliability issues
- Systems implementation and organizational issues

PRACTICALS:
- 5 laboratory practicals

ASSESSMENT:

Examination 40%
- 1.5 hours

Coursework 60%
- 2 individual laboratory practicals
- 1 individual project assignment (in 3 practicals)

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand some concepts in GIS and database management				✔			Practicals 1, 3-5; & exam
2	know some GIS functions and limitations			✔				Practicals 2, 3-5; & exam
3	assess environmental data representation and reliability			✔				Practicals 3-5; & exam
4	recognise GIS requirements and environmental applications				✔			Practicals 3-5; & exam
5	acquire GIS operational skills						✔	Practicals 1, 3-5
6	gain database management skills						✔	Practicals 2, 3-5
7	apply environmental modelling and presentation skills			✔			✔	Practicals 3-5

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Brimicombe, A. (2010). GIS, Environmental Modelling and Engineering. 2nd Edition. Boca Raton: CRC Press. [Electronic Resource]
- Kennedy, M. (2013). Introducing Geographic Information Systems with ArcGIS: A Workbook Approach to Learning GIS. Third edition. Hoboken, N.J.: John Wiley & sons, Inc. [Electronic Resource]
- Nyerges, T.L., & Jankowski, P. (2010). Regional and Urban GIS: A Decision Support Approach. New York: Guidford Press. [Electronic Resource]

GEOG3203 Climate Change and the Environment

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Jinbao LI

OBJECTIVES: This course is primarily concerned with the Earth's climatic conditions and their interactions with the environment and human society over space and time.

COURSE SYNOPSIS: This course examines climatic conditions on Earth and their interaction with the environment and human society. It will focus on climate change, since to deal sensibly with questions raised concerning future climatic conditions and evaluation of their impact on environment and society, it is essential to understand the nature of the climate system and what causes it to change. In particular, the impact of human activities on the climate system will be set in perspective alongside the background of natural changes in the climate of our planet. Issues associated with societal decisions taken today and their potential impact on climate over the next century will also be discussed.

LECTURE TOPICS:
- The climate system and its operation
- The greenhouse effect and anthropogenic climate change
- The effects of climate change on the natural environment

ASSESSMENT:

Examination 60%
- 2 hours

Coursework 40%
- 4 individual bi-weekly essays
- 1 individual project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the climate system and climate change	✔	✔		✔			Bi-weekly essays, project & exam
2	acquire perspectives on external and internal forcing of climate change	✔	✔					Bi-weekly essays, project & exam
3	understand the general effects of climate change on the environment	✔	✔					Bi-weekly essays, project & exam
4	familiarise with a number of key issues and challenges in climate change research	✔			✔			Bi-weekly essays, project & exam
5	acquire critical reading and writing skills	✔	✔		✔			Bi-weekly essays, project & exam
6	think critically about human impact on climate system	✔	✔		✔	✔	✔	Bi-weekly essays, project & exam
7	think critically about climate change and its consequences	✔	✔		✔	✔	✔	Bi-weekly essays, project & exam
8	work independently toward discovering and finalizing a research project						✔	Project

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- IPCC, (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Kump, L. R., Kasting, J. F., &Crane, R., (2010). The Earth System: An Introduction to Earth Systems Science, 3rd edition. Prentice-Hall: Upper Saddle River, New Jersey.
- Burroughs, W. J. (2007). Climate Change: A Multidisciplinary Approach, 2nd edition. Cambridge University Press, Cambridge, United Kingdom.

GEOG3204 Urban Hydrology and Water Quality

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor K C HO

OBJECTIVES: The course is designed to present: 1) an introduction to hydrological resources in urbanized areas; b) an outline of water supply, including access, storage, distribution and drainage systems; 3) hydrologic hazards, particularly those relevant to climate changes; in urbanized areas and 4) water quality and water conservation issues from environmental aspect.

COURSE SYNOPSIS: This course aims to provide students with appropriate knowledge in water resources and water quality with special reference to those in urbanized environment. The course also aims to develop students' analytical and management skills for applying relevant knowledge in human society particularly the Great Bay Area including Hong Kong. It starts with an introduction to the hydrological cycle and water system in global and regional perspectives. Understanding and discussion of the hydrologic cycle and water system lead to studies relevant to water supply, water quality, drainage and water conservation in urbanized environment. The geographic specialties and contrasts of water management in Hong Kong and nearby areas are analysed in detail. Hydrologic problems in human society such as flooding, drought and restriction of water supply etc. are also examined with special attention to global climate change. Last but not least, the sustainability of water including protection of water catchment, sharing of water resources between different jurisdictions, water conservation and efficiency of water consumption, water quality in taps and desalination which is one of the new water sources will be discussed with local relevance.

LECTURE TOPICS:

- The hydrological cycle: water in global and regional perspectives
- Introductory hydrology
- Water resources and water quality issues in China including the Great Bay Area in Guangdong
- Water supply and distribution, with particular reference to Hong Kong
- Drainage and sanitation systems in urban and rural areas
- Water quality and water pollution, from source to taps
- Water quality standards and water quality monitoring, from hydrology to ecology and health & safety
- Hydrologic hazards with special attention to the impacts of global climate change
- Total Water Management (TWM): protection and control, conservation, efficiency of water consumption, maintenance of water drains and flood drainages in urbanized areas, new water sources
- Sustainability of Hydrological Cycle: equity, innovation, planning, education and public participation

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 course essay
- 1 field study report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	gain knowledge of hydrologic cycle, introductory hydrology, water resource and water quality in global, regional and local perspectives	✔	✔		✔			Course essay & exam
2	gain knowledge and awareness of issues in water supply & flood control in urbanized environment and, water hazards relevant to global climate change	✔	✔		✔			Course essay & exam
3	gain knowledge and skills in implementing water quality standards, water monitoring and water system management	✔	✔					Course essay & exam
4	gain awareness and in-depth comprehension of the problems of sustainability with particular reference to water	✔	✔		✔	✔	✔	Course essay & exam
5	describe, analysis and discuss contemporary water management issues			✔	✔	✔	✔	Course essay, field report & exam
6	discuss critically and present (in oral and/or written from) effectively to support reasoned arguments			✔	✔		✔	Course essay, field report & exam

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

- Musy, A. and C. Higy (2010) Hydrology: A Science of Nature. CRC Press. ISBN 978-1-578-087099
- Stephenson, D. (2003) Water Resources Management. CRC Press. ISBN 978-9-058-095732
- Boyd, A. and Claude E. (2015) Water Quality – An Introduction. Springer. ISBN 978-3-319-177446-4
- 何建宗、吳方笑薇 (2013) 水舞人間. Warrior Books. ISBN 978-988-12219-3-3

GEOG3207 Environmental Management: Impact Assessment

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Nicky Y F LAM

OBJECTIVES: The course will help students to understand the role of Environmental Impact Assessment studies in environmental decision-making processes and as a means for better environmental management.

COURSE SYNOPSIS: The purpose of this course is to discuss the role of Environmental Impact Assessment (EIA) studies in the environmental decision-making process and as a means for better environmental management. The major components, processes and attributes to EIA systems will be discussed throughout the lectures. The course will also introduce different methodologies in planning and managing of an EIA study. Applications of EIA system in the local context will be discussed in detail and illustrated by real-life examples mainly from Hong Kong.

LECTURE TOPICS:
- The Environmental Impact Assessment (EIA) process
- Planning and management of EIA studies
- Impact prediction: Assessment and evaluation
- Impact mitigation and compensation
- Public participation, decision-making and EM & A
- Strategic EIA. Field trip and case studies

ASSESSMENT:

Examination 50%
- 1.5 hours

Coursework 50%
- 1 group project (including oral presentation)

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	learn major aspects in Environmental Impact Assessment process	✔	✔					Exam
2	understand the concepts and framework of planning, management and evaluation of EIA studies	✔			✔			Exam
3	obtain practical experience of local EIA studies					✔		Project & exam
4	identify the effectiveness and limitations of current EIA systems						✔	Project & exam
5	develop basic skills in the reading, understanding and evaluating EIA reports					✔	✔	Project & exam
6	identify the discrepancy between the planning and execution of EIA process					✔	✔	Project, oral presentation & exam
7	evaluate critically the performance and effectiveness of EIA process					✔	✔	Project, oral presentation & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Glasson, J., Therivel, R., & Chadwick, A. (2012). Introduction to Environmental Impact Assessment. 4th Ed. London, Routledge Press.
- Morris, P., & Therivel, R., (2009). Methods of Environmental Impact Assessment. 3rd ed. London; New York : Spon Press.

GEOG3213 Ecosystem Services and Sustainable Society

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Wendy Y CHEN

OBJECTIVES: This course aims to provide students with the fundamental understanding of nature's ecosystem services and their importance for the development of a sustainable society.

COURSE SYNOPSIS: This course aims to provide students with the fundamental understanding of nature's ecosystem services and their importance for the development of a sustainable society. Creating a sustainable society is one of the most crucial challenges in the 21st century. Human society is dependent on both technological and ecological life support systems. To build a sustainable society, it is necessary to understand natural ecosystems and the delivery of ecosystem services which are essential to the survival of human society. Attention should be given to the sustainability of ecosystem services lest they may fail through ever increasing pressure of population and associated environmental degradation. This course starts with an introduction of the concept of ecosystem services. Major issues discussed include: (1) conceptualization and classification of ecosystem services; (2) urban ecosystem services and land-use planning; (3) human impacts on ecosystem services; (4) ecosystem services economics; and (5) ecosystem services mapping.

LECTURE TOPICS:
- Ecosystem services: conceptualization
- Ecosystem services: classification
- Urban ecosystem services and disservices
- Ecosystem services economics
- Ecosystem services mapping

ASSESSMENT:

Examination 40%
- 2 hours

Coursework 60%
- 1 group field trip report
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	develop an understanding of natural ecosystems and ecosystem services	✔						Essay, field trip report & exam
2	be aware of various approaches to evaluating ecosystem services				✔			Essay, field trip report & exam
3	understand the basic theoretical framework for assessing the role of ecosystem services in sustainable society		✔					Essay, field trip report & exam
4	obtain basic skills in reading, thinking, and writing						✔	Essay, field trip report & exam
5	acquire basic quantitative approaches for measuring and analysing ecosystem services			✔				Essay, field trip report & exam
6	develop a critical thinking on the development of sustainable society				✔			Essay, field trip report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Bouma, J.A., & van Beukering, P.J.H., (2015). Ecosystem Services: From Concept to Practice. Cambridge University Press, Cambridge, UK.
- Working Group of the Millennium Ecosystem Assessment, (2005). Ecosystems and Human Wellbeing: Current State and Trends. Washington, DC: Island Press.

GEOG3214 Corporate Social Responsibility and Environmental Auditing

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Wendy Y CHEN

OBJECTIVES: The course will help students to understand the concept of corporate social responsibility (CSR) and environmental auditing. It develops the necessary skills of addressing the role of CSR in environmental welfare, the step-by-step procedures of conducting basic environmental auditing and explores the contribution of CSR and environmental auditing to social sustainability.

COURSE SYNOPSIS: The world's major environmental problems are closely related to the impacts imposed by various commercial establishments. Recently, the contribution of the business sector to social responsibility and sustainability has been increasingly emphasized. The awareness of the social and environmental implications of business operations, products and services has brought changes in relevant attitudes, behaviours and policies. On the other hand, various stakeholders, such as the public, investors, customers, employees, media and business partners are interested in the social and environmental activities of corporations and their contribution to sustainable development. This course introduces students to the concept of corporate social responsibility (CSR) and environmental auditing. It will focus on the recognition of CSR as a process that integrates social and environmental concerns in business operations, and the application of environmental auditing as a preventative tool to manage social and environmental responsibilities. Adopting an integrated scientific and practical approach, the course appeals to students with science, social science, business or humanity background with interests in corporate social performance, welfare of the environment and quest for sustainable development.

LECTURE TOPICS:

- Introduction to corporate social responsibility (CSR)
- Evolution of CSR concepts and practical examples
- Debates over CSR
- CSR and sustainable development
- Implementation of CSR
- Practical procedures of environmental auditing

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 group field trip report
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand CSR and environmental auditing	✔						Field trip report, essay & exam
2	evaluate business social and environmental performance			✔				Field trip report, essay & exam
3	critically think about environmental management and sustainable development				✔			Field trip report, essay & exam
4	assess corporate performance and interpretation of major environmental issues				✔			Field trip report, essay & exam
5	conduct basic environmental auditing					✔		Field trip report, essay & exam
6	prepare of environmental auditing report						✔	Field trip report, essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Chandler, D. (2015). Corporate Social Responsibility: A Strategic Perspective. Business Expert Press, New York.
- Cahill, L.B., & Kane, R.W., (2011). Environmental Health and Safety Audits. Government Institutes, Rockville, MD. USA.

GEOG3304 Tourism Policy and Planning

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Benjamin L IAQUINTO

OBJECTIVES: This course demonstrates the importance of policy making and planning to the functioning of the tourism industry and the competitiveness of destinations.

COURSE SYNOPSIS: This course aims at demonstrating the critical importance of tourism policy to the competitiveness and sustainability of a destination and relates tourism planning to policy making. The course outlines the structure, content and formation of tourism policy and the planning and management strategies articulated in the context of social, economic, political and environmental impacts of tourism. Students will be introduced to case studies worldwide so as to appreciate the geographical specificities of, and develop a critical perspective towards, tourism policy and planning.

LECTURE TOPICS:

- What is tourism policy?
- Principles and processes of tourism planning
- Destination making: Tourism marketing and identities
- Tourism transport, logistics and mobilities
- Tourism and poverty alleviation
- Towards a sustainable tourism policy?
- Policy and planning for niche/alternative tourism
- The future of tourism policy and planning: Challenges and issues

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 group field trip report
- 1 individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the role of policy and planning in tourism development	✔	✔					Exam, essay & field trip report
2	learn terms and concepts related to tourism policy and planning	✔	✔					Exam, essay & field trip report
3	appreciate the process of tourism marketing				✔		✔	Essay & field trip report
4	understand economic, environmental and social impacts of tourism					✔		Essay & exam
5	critically assess research and professional literature			✔	✔			Essay & field trip report
6	apply theories to practice through group projects			✔			✔	Field trip report
7	develop analytical and writing skills through individual research						✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Goeldner, C.R., & Ritchie, J.R.B. (2012). Tourism: Principles, Practices, Philosophies, Hoboken, NJ: John Wiley & Sons. [Ebook available on HKU Libraries website]
- Hall, C.M. (2008) Tourism Planning: Policies, Processes and Relationships, Harlow, England; New York: Pearson/Prentice Hall. [Ebook available on HKU Libraries website]
- Andriotis, K., Stylidis, D. & Weidenfeld, A. (Eds) (2019). Tourism policy and planning implementation : issues and challenges. London: Routledge. [Ebook available on HKU Libraries website]

GEOG3403 Urban Planning in Practice in South Korea

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Yongsung LEE

OBJECTIVES: Through discussions on how urban planning is undertaken in practice in South Korea, undergraduate students learn the real-life rationale behind urban planning and development decisions and pattern in South Korea.

COURSE SYNOPSIS: This course will concentrate its discussions on selected aspects on urban planning in practice in South Korea. It will outline the actual functions and work of urban planning in real life and analyze the more important factors affecting urban planning and development in South Korea. A number of specific significant urban planning issues will be considered. The planning system, the planning legislation and other matters in the implementation mechanism will also be explained. The course will end with glimpses into the future development of South Korea and its planning-development relationship in major cities in South Korea including Seoul.

LECTURE TOPICS:

- Factors in and functions of urban planning
- Housing problems and high-density development
- Urban planning for better total environment
- New town development and urban renewal
- Urban development and transportation planning
- Urban planning and implementation systems (including relevant ordinances)
- Future development trends

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- Projects

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	Better appreciation of the functions and work of urban planning in South Korea	✔	✔					Project & exam
2	Understanding of the rationale behind principal urban planning and development decisions in real life	✔	✔					Project & exam
3	Insight on the possible future development directions in South Korea	✔	✔					Project & exam
4	Awareness of planning relationships among adjacent development areas in South Korea	✔	✔					Project & exam
5	Analytical ability to integrate information from different sources			✔	✔			Project & exam
6	Critical research and analysis of urban planning/development issues in South Korea			✔	✔			Project & exam
7	Positive contribution to regional planning/development exercises					✔	✔	Project & exam
8	Participation in team work					✔	✔	Project & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Joo, Y. M. (2018). Megacity Seoul: Urbanization and the development of modern South Korea. Routledge.
- Yun, J. (2017). Globalizing Seoul: The City's Cultural and Urban Change. Taylor & Francis.

GEOG3414 Cultures, Social Justice and Urban Space

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: Students will be familiarized with the foundation of Cultural Geography, and learn to make sense of the mutually constitutive relationship between people and their environments.

COURSE SYNOPSIS: This course interrogates the cultural, social and urban aspects of our everyday life through a Cultural Geography perspective. More specifically, it will utilise the concept of 'landscape' as lens through which to explore contemporary debates on people and their lived urban environment. Students will explore how cultures are geographically expressed and how geography is a basic element in the making of culture. Furthermore, attention will be paid to the power relations amongst various stakeholders in the creation of urban spaces and social systems. The course thus plots a thematic learning journey, which spans from urban injustice, struggles over public spaces, and identity politics to culture and heritage as tourism resources. As such, students will be familiarised with the basics of Cultural Geography, and learn to make sense of the mutually constitutive relationship between people and their environments.

LECTURE TOPICS:
- Definitions and approaches
- Power and imagination
- Moral geographies of urban landscape
- Public space and urban social movements
- Urban mobilities
- Identity at a variety of different scales
- Multiculturalism and post-nationalism
- Neoliberalisation of Urban Governance
- Culture and heritage as economic resource

ASSESSMENT:

Examination 40%
- 2 hours

Coursework 60%
- Class participation
- Group project report and presentation
- Individual essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	engage with major theories and debates in the cultural geographies of urban spaces	✔			✔			Class participation, group project report and presentation, individual essay & exam
2	adopt a critical perspective in understanding 'culture' in the governing of urban spaces	✔	✔					Class participation, group project report and presentation, individual essay & exam
3	understand landscape as an expression of socio-cultural forces	✔						Class participation, group project report and presentation, individual essay & exam
4	analyse culture in the age of globalisation		✔			✔		Class participation, group project report and presentation, individual essay & exam
5	develop analytical skills for interpreting place, space, and political-economic processes from a cultural geographical perspective			✔		✔		Class participation, group project report and presentation, individual essay & exam
6	gain critical reading, writing and presentation skills						✔	Class participation, group project report and presentation, individual essay & exam
7	put qualitative research methods to practice (observation, participant observation etc.)						✔	Class participation, group project report and presentation, individual essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Crang, M. (1998) Cultural Geography. London: Routledge.
- Oakes, T.S. and Price, P.L. (eds.) (2008) The Cultural Geography Reader, Milton Park, Abingdon, Oxon; New York: Routledge.
- Valentine, G. (2001) Social Geographies: Space and Society, Harlow, England; New York, N.Y.: Prentice Hall.

GEOG3420 Transport and Society

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Becky P Y LOO

OBJECTIVES: This course aims to encourage students to think about the role of transport in society critically.

COURSE SYNOPSIS: This course aims to encourage students to think about the role of transport in the society critically. It provides a comprehensive overview of the theoretical approaches and empirical evidences on the relationship between transport and society. Case studies are drawn extensively from different parts of the world. Particular emphasis is placed on understanding the role of government in shaping the transport-development relationship and in promoting transport sustainability.

LECTURE TOPICS:

- Transport and development
- Nature of infrastructure
- Let's build!
- Transport as a policy tool
- Rural transport problems
- Regional transport and territorial integration
- Transport and industrialization
- Air transport: Global issues, regional challenges

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- 1 term essay

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	demonstrate knowledge about different functions of transport	✔	✔					Essay & exam
2	analyse the key role of transport in society		✔		✔			Essay & exam
3	understand the importance of transport in sustainability					✔	✔	Exam
4	apply analytical skills in examining transport and sustainability problems				✔		✔	Essay & exam
5	synthesise information and data from different sources in writing essays			✔	✔			Essay & exam
6	understand common statistical tools used in analysing transport and sustainability issues			✔			✔	Essay & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Knowles, R., Shaw, J., &Docherty, I., (Eds., (2008). Transport Geographies: Mobilities, Flows and Spaces. Malden: Blackwell.
- Loo, B. P.Y., & Comtois, C., (Eds.), (2015). Sustainable Railway Futures: Issues and Challenges. Surrey: Ashgate.

GEOG3422 Contemporary Urban Transportation Issues

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Becky P Y LOO, Dr Calvin P TRIBBY (Co-ordinator)

OBJECTIVES: To provide students with an advanced understanding of the nature of urban transportation issues in the context of public health, social equity and spatial trends in metropolitan settings.

COURSE SYNOPSIS: This course focuses on urban transportation in the context of public health, social equity and spatial trends in metropolitan settings. It explores a wide range of issues related to public health and transportation: the dimensions of climate change and transportation in cities; how transportation is a social determinant of health and how transportation policy contributes to social equity; the relationships between infectious diseases, such as COVID-19, and mobility including travel modes and restrictions; the relationships between health and active travel; how ageing and demographic changes are related to transportation; and finally, road safety and Vision Zero policies.

LECTURE TOPICS:
- Climate change and urban areas
- Climate change adaptation of urban transportation systems
- Social equity and transportation: theory, concepts, and indicators
- Addressing social equity through urban transportation: case studies
- Infectious diseases and mobility
- COVID-19 case studies
- Active transport, health and well-being for children
- Active transport, health and well-being for the elderly
- Sustainable transport for the ageing population in transit-oriented society
- Sustainable transport for the ageing population in car-oriented society
- Road safety as a social and public health issue
- Towards a road safety strategy

ASSESSMENT:

Examination 60%
- 2 hours

Coursework 40%
- Eight individual weekly reflections

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	describe some strategies of how urban areas are preparing transportation systems to endure climate change	✔	✔		✔	✔		Weekly reflections; and exam
2	identify key indicators of social equity in transportation, data to assess, and strategies to reduce inequities	✔	✔	✔	✔	✔		Weekly reflections; and exam
3	integrate knowledge about infectious diseases and strategies to reduce transmission through transportation policy	✔	✔		✔	✔		Weekly reflections; and exam
4	promoting health and wellness through mobility strategies	✔	✔		✔	✔	✔	Weekly reflections; and exam
5	use sustainable transport concepts to identify policy options to address issues with an ageing population				✔	✔	✔	Weekly reflections; and exam
6	identify strategies to improve road safety for all users	✔	✔	✔	✔	✔	✔	Weekly reflections; and exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- G. Giuliano, Genevieve and Hanson, S. (2017). The Geography of Urban Transportation, 4th edition. New York: Guilford Press.
- B.P.Y. Loo (2019). Unsustainable Transport and Transition in China. New York: Routledge.

GEOG3423 Urban Studies: Social and Cultural Perspectives

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Junxi QIAN

OBJECTIVES: This course provides students with an overview and fundamental understanding of how spatial differentiations and processes in the city shape, and are shaped by, social relations, communities, cultural identities, political activism, economic regulation, and state governance.

COURSE SYNOPSIS: The city is not only the spatial concentration of productive activities and built environments, but also a crucible of political economy, social relations, cultural lives and grassroots political activism. Over a period of more than a century, urban scholars have developed a vast variety of concepts and approaches to understand the social organizations, power dynamics, cultural identities and lifestyles in the city. This body of knowledge combines geographical, sociological, anthropological, political economic, cultural studies and urban planning perspectives, and is central to the next generation of urbanists hoping to understand, analyze, manage and plan our cities. Students are expected to appreciate the idea that the urban does not simply provide a spatial container or context, but is a constitutive element of social, economic political and cultural lives and experiences. Topics in this course will include: modernity and the city; Chicago School of modern urbanism; Marxist political economic approaches; Los Angeles School and post-modern urbanism; globalization and transnational urbanism; neoliberal urbanism and urban governance; gentrification and urban regeneration; informal and grassroots urbanism; race, gender and sexuality in the city.

LECTURE TOPICS:
- Modernity and urban life
- Chicago School of modern urbanism
- Marxist political economic approaches
- Los Angeles School and post-modern urbanism
- Globalization and transnational urbanism
- Gentrification of the city
- Neoliberalism, urban governance and state spaces
- Race, gender and sexuality in the city

ASSESSMENT:

Examination 60%
- 2 hours

Coursework 40%
- 1 group research project (presented in the form an oral presentation)

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have a preliminary understanding of the intellectual history of urban theories		✔					Exam
2	have a solid understanding of the theories, definitions and concepts in urban theories	✔	✔					Research project & exam
3	understand the mutual relationships between spatial differentiations and processes on the one hand, and the diverse issues of social relations, communities, identities, lifestyles, political contestations, economic processes, state governance, etc	✔	✔		✔			Research project & exam
4	develop an ability to draw from the historical trajectories of the evolution of the modern city to understand the latest urban changes in Hong Kong, Asia and the globe			✔	✔	✔	✔	Research project & exam
5	develop a comparative perspective to understand the convergences and divergences between capitalist urbanisation processes in the West and Asian urbanisms			✔	✔	✔	✔	Research project

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Tonkiss, F. 2006. Space, the City and Social Theory: Social relations and urban forms. London: Polity.
- Harding, A & Blokland, T. 2014. Urban Theory. London: Sage.
- Hubbard, Phil. 2006. City. London Routledge.

GEOG3424 Urban Development and Planning: the Hong Kong Experience

TIMETABLE ARRANGEMENT: Annual; 1st Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Phyllis C M LI

OBJECTIVES: The objectives of this course are for students to achieve a basic understanding of the history of planning and development in Hong Kong, the planning system, the sectoral planning issues and the strategy and plan to prepare Hong Kong for a sustainable future.

COURSE SYNOPSIS: This course covers an overview of the evolution of urban development and planning in Hong Kong; the planning system; the relevant social, economic and environmental issues; and how planning responds to these issues for its sustainable development.

LECTURE TOPICS:

- Evolution of urban development and planning in Hong Kong and the planning system
- Strategic planning in the changing global, regional and territorial contexts
- District planning, development control and planning enforcement
- Urban economy
- Housing and new urban growth areas
- Urban regeneration
- Urban mobility
- Environment and conservation
- Sustainability and resilience
- Urban innovations
- Field visit to City Gallery

ASSESSMENT:

Examination 60%

- 2 hours

Coursework 40%

- 1 individual essay
- 1 individual field visit report

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have an overview of the history of planning and development in Hong Kong	✔	✔					Essay, field visit report & exam
2	have a broad understanding of the planning system covering strategic planning, district planning and development control	✔	✔					Essay, field visit report & exam
3	appreciate the social, economic and environmental considerations and sectoral issues relevant to planning			✔	✔			Essay, field visit report & exam
4	learn from the experience of spatial planning in the territorial and local contexts and reflect on how planning can contribute to a sustainable future for the city					✔	✔	Essay, field visit report & exam
5	understand and use common urban development and planning related terminology	✔					✔	Essay & exam
6	apply analytical skills and judgement in examining the changing planning contexts and planning responses over time in Hong Kong		✔	✔				Essay, field visit report & exam
7	understand common statistics, criteria and benchmarking indices employed in analysing and presenting urban development and planning issues in Hong Kong			✔	✔			Essay, field visit report & exam
8	synthesise data, information and supporting material from different sources in writing essays and reports.			✔	✔			Essay, field visit report & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Ho, P. Y. (2018). Making Hong Kong - A History of its Urban Development, Edward Elgar Publishing.
- HKSAR Government (2016). Hong Kong 2030+: Towards a Planning Vision and Strategy Transcending 2030, Public Engagement Booklet and Topical Papers.
- Task Force on Land Supply (2018) Striving for Multi-pronged Land Supply – Report of the Task Force on Land Supply

GEOG3425 Cities of the Western Hemisphere

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: This course aims to introduce students to the distinctive patterns, urbanization processes, and major cultural resonances of the Western Hemisphere's most paradigmatic cities, and equip students to critically assess these in comparative fashion.

COURSE SYNOPSIS: This course will introduce students to contemporary and recent (twentieth century) urbanization patterns in North and South America. Particular emphasis will be placed on paradigmatic cities and the 'urban experience' and prominent academic or cultural frameworks associated with each, including: the 'Chicago School' of urban ecology, the 'Los Angeles School' of postmodern urbanism, the urban political ecology of 'resource wars' of Cochabamba, and the spectacularity of modern Brazilian festivals. Case material will be drawn from: New York, Chicago, Los Angeles, Montreal, Mexico City, Lima, São Paulo, Buenos Aires, Bogotá, and Cochabamba.

LECTURE TOPICS:

- Introduction to comparative urbanism in the Western Hemisphere
- New York City: neighborhood, gentrification, and policing
- Chicago: human ecologies
- Los Angeles: postmodern urbanism
- Montreal: Francophone urban planning
- Mexico City: urban politics and citizenship
- Lima: urban explosion and autoconstruction
- São Paulo: spectacle, security, citizenship
- Buenos Aires: migration, sexuality, and space
- Cochabamba: resource wars
- Bogotá: Spanish urban planning and contemporary narco-states

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- Research Paper 1
- Research Paper 2
- Midterm Test

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	understand the distinctive spatial patterns, urbanization processes, and major cultural resonances of the Western Hemisphere's most paradigmatic cities	✔	✔		✔			Research paper 1, research paper 2, midterm test & exam
2	identify the morphologies and major distinctive cultural features of major representative cities of the Western Hemisphere	✔	✔		✔			Research paper 1 & research paper 2
3	analyse the cities of the region in comparative fashion	✔	✔	✔	✔	✔	✔	Research paper 1, research paper 2, midterm test & exam
4	recognize the similarities and differences between the morphologies of the region's cities, as well as convergence and divergence from normative frameworks	✔	✔	✔	✔	✔	✔	Research paper 1 & research paper 2
5	demonstrate understanding of major trends in the urban Western Hemisphere		✔	✔	✔	✔	✔	Research paper 1, research paper 2, midterm test & exam
6	effectively apply course themes and analytical perspectives to the study of particular cases	✔	✔	✔	✔	✔	✔	Midterm test & exam

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Beauregard, Robert (2018). Cities in the Urban Age: A Dissent. The University of Chicago Press.
- Davis, Mike (1994). City of Quartz: Excavating the Future in Los Angeles. Verso.

GEOG3426 Networks and Geography: An Introduction to Social Network Analysis

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Dr Frank VAN DER WOUDEN

OBJECTIVES: The objectives of this course are (1) to introduce key concepts of social network analysis; (2) to provide an introduction to a set of quantitative methods and measures in social network analysis commonly used in the field of geography and (3) present tools to empirically conduct social network analysis.

COURSE SYNOPSIS: Social sciences are the study of relationships and these relationships can be represented via networks. This is also true for the socio-economic interactions studied in the geography discipline. This course focuses on the theories, applications and tools in social network analysis. It covers the basics of graph analysis, fundamental network models, diffusion processes of ideas, knowledge and information, and the contagion of diseases across space. In network analysis, theories and the quantitative methods are often entwined. This class will focus primarily on the substantive concepts of social network analysis but will also provide an introduction to the quantitative methods and measures commonly used in the field of geography. These methods are tools for students' future academic and professional careers. Connections with contemporary issues such as the geographical spread of the Corona-virus will be made.

LECTURE TOPICS:

- Introduction to Networks
- Why Networks Matter in Geography
- Ties and Tie Strength
- Context of Individuals and Dyads
- Micromotives
- Small World
- Decentralized Search
- Cascades and Matthew Effects
- Diffusion
- Epidemics
- Networks and Geography

ASSESSMENT:

Examination 50%

- 2 hours

Coursework 50%

- Theoretical research project
- Empirical research project

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	conceptualize socio-economic and geographical problems from a network perspective		✔		✔			Theoretical research project, empirical research project & exam
2	demonstrate a basic understanding of concept of social network analysis in the field of geography		✔					Theoretical research project, empirical research project & exam
3	integrate social and spatial landscapes analytically		✔					Theoretical research project, empirical research project & exam
4	apply empirical techniques from social network analysis to real-world problems	✔	✔	✔	✔	✔	✔	Empirical research project
5	work with open-source software to analyze social networks	✔	✔	✔	✔	✔	✔	Empirical research project

* Geography Programme Learning Outcomes could be found on page 8.

RECOMMENDED READING LIST:

- Networks, Crowds, and Markets: Reasoning About a Highly Connected World" by David Easley and Jon Kleinberg, Cambridge University Press (2010).

GEOG4001 Overseas Field Trip

Geography majors are strongly recommended to take GEOG4001 Overseas field trip to reinforce experiential and contextual learning.

** In the event of time conflict with other required academic activities, the candidate can apply for deferring the overseas field trip participation towards the end of Year 4 of study before graduation (see the GEOG4001 course description for details).*

 # For students who are double major in both Geography and Urban Governance, they have the following two options to fulfill the capstone experience (CE) requirements for both declared majors:

Option 1 - Take 'GEOG4001 Overseas field trip' (6 credits) to meet the CE requirement for the declared Geography major, and take 'GEOG4004 Directed project in urban governance' (6 credits) to meet the CE requirement for the declared Urban Governance major.

Option 2 - Take 'GEOG4001 Overseas field trip' (6 credits) to meet the CE requirement for the declared Urban Governance major, and take either 'GEOG4002 Directed project in geography' (6 credits) or 'GEOG4003 Honours dissertation' (12 credits) to meet the CE requirement for the declared Geography major.

TIMETABLE ARRANGEMENT: Annual; University Vacations **CREDITS:** 6

COURSE TEACHER(S): Dr Mia M BENNETT, Dr Benjamin L IAQUINTO, Dr Keumseok (Peter) KOH, Dr Raffaele LAFORTEZZA, Professor George C S LIN

OBJECTIVES: To reinforce and develop geography specific and general skills, to provide the possibility for experiential learning and the challenge of different environments, to permit textbook derived knowledge to be sorted and clarified, to integrate the material studied under geography, and to encourage the development of tacit or intuitive knowledge.

COURSE SYNOPSIS: This is a capstone experience course available to Geography and Urban Governance major students ONLY. Candidates are required to complete one 'two weeks' overseas residential field camp in the summer after Year 3 of study, and to produce a written field trip report (plus a poster/oral presentation where applicable) in the first semester of Year 4 study for assessment. The course provides the students an experiential learning opportunity to understand the world of geography by field observation and survey of the natural environment, conservation, social and economic development, transportation and urban planning in a designated part of a foreign country.

GOVERNMENT FUNDING SUPPORT:
Students, who are eligible for a government grant/means-tested loan, can apply for financial support from the government to cover some field trip expenses on a reimbursement basis. Moreover, HKU's Scholarships Office also administers the government-supported 'Reaching Out Award', which students can apply for financial support to cover their field trip expenses.

ASSESSMENT:

Examination 0%

-

Coursework 100%

- 1 individual field trip report
- 1 individual poster / oral presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have the opportunity of experiential learning in different environments	✔			✔			Field trip report & poster / oral presentation
2	identify and analyse human-environment interactions	✔	✔					Field trip report & poster / oral presentation
3	integrate geographic material		✔	✔	✔			Field trip report & poster / oral presentation
4	apply of geographic knowledge in the real world	✔	✔	✔		✔		Field trip report & poster / oral presentation
5	gain geography specific and general skills					✔	✔	Field trip report & poster / oral presentation
6	develop tacit or intuitive knowledge						✔	Field trip report & poster / oral presentation

*** Geography Programme Learning Outcomes could be found on page 8.**

GEOG4002 Directed Project in Geography

This is an optional capstone experience course for Geography majors only, and to be registered in the fourth year of study.

TIMETABLE ARRANGEMENT: Annual; Full-year **CREDITS:** 6

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: A major objective of the course is to give students an opportunity to propose, plan, implement and complete a geographical project. Students are also required to write a report to document the research process and results and to participate in an oral presentation.

COURSE SYNOPSIS: The objective of this course is to offer Geography majors an opportunity to engage themselves in empirical/applied research projects under a faculty member's supervision in the Department and gain hands-on experience in research work. The directed project should normally comprise study of a well-defined and well-bound research topic/project through fieldwork. Students are required to propose, plan, implement and complete the projects; and to demonstrate a mastery of geographical field and practical techniques. Teachers may specify topics/projects considered suitable for small-scale investigation. After completing the projects, students are required to submit a written report (typed with double-line spacing on A4 sheets of paper with a minimum of 6,000 words in length; excluding tables, figures and references). An oral presentation of the completed work is also required. This course is useful to those major students who would be interested in acquiring the research skills for pursuing future research or other postgraduate studies.

ASSESSMENT:

Examination 0%

-

Coursework 100%

• Written report & oral presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have a concentrated study on a geographic subject	✔	✔	✔	✔	✔		Written report & oral presentation
2	understand the process of developing and implementing research proposal	✔	✔	✔	✔			Written report & oral presentation
3	have knowledge on data collection and analysis		✔	✔	✔		✔	Written report & oral presentation
4	have an experience on independent research skills			✔	✔		✔	Written report & oral presentation
5	gain the report writing skills						✔	Written report & oral presentation
6	gain the analytical and oral presentation skills						✔	Written report & oral presentation

*** Geography Programme Learning Outcomes could be found on page 8.**

GEOG4003 Honours Dissertation

This is an optional capstone experience course for Geography majors only, and to be registered in the fourth year of study.

Students enrolling in this course are eligible for consideration of the "TN Chiu Memorial Prize for Best Geography Dissertation".

TIMETABLE ARRANGEMENT: Annual; Full-year **CREDITS:** 12

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: A major objective of the course is to introduce students to a basic and practical understanding of geographical research and writing a dissertation. Students have to think through the many aspects of crafting, implementing and defending a dissertation.

COURSE SYNOPSIS: The basis of the honours dissertation should normally be the analysis of a phenomenon through fieldwork or through library documentary study under the supervision of an assigned faculty member. The objective is for students to demonstrate a mastery of geographical field and practical techniques within the scope of the chosen study. Studies undertaken should be based on courses taken in the second and third years. Teachers may specify subjects considered suitable for study. The dissertation course begins in the latter part of the third-year of study and must be completed by the end of March in the fourth-year of study. The completed dissertation should be typed with double-line spacing on A4 sheets of paper with a minimum of 12,000 words in length (excluding tables, figures and references). Students are required to give an oral presentation on their research finding. This course is useful to those major students who would be interested in acquiring the research skills for pursuing future research or other postgraduate studies.

ASSESSMENT:

Examination 0%

-

Coursework 100%

• written report & oral presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	have specific and in-depth examination of a geographic topic	✔	✔	✔	✔	✔		Written report & oral presentation
2	know the research requirements and processes						✔	Written report & oral presentation
3	acquire critical analysis and interpretation skills				✔		✔	Written report & oral presentation
4	gain geographic and spatial analytical skills	✔	✔	✔	✔	✔	✔	Written report & oral presentation
5	acquire writing and presentation skills						✔	Written report & oral presentation
6	work independently				✔		✔	Written report & oral presentation

*** Geography Programme Learning Outcomes could be found on page 8.**

RECOMMENDED READING LIST:

• Levine, S. J., & Levine, S. J. (2000). Writing and presenting your thesis or dissertation. LearnerAssociates. http://www.learnerassociates.net/dissthes.

GEOG4004 Directed Project in Urban Governance

This capstone experience course is for Urban Governance majors only.

TIMETABLE ARRANGEMENT: Annual; Full-year **CREDITS:** 6

COURSE TEACHER(S): Dr Ben A GERLOFS

OBJECTIVES: The objective is to offer students an opportunity to engage themselves in empirical/ applied research projects under the supervision of a faculty member and gain hands-on experience in research work. Students will also have the chance to participate in oral presentation.

COURSE SYNOPSIS: The objective of this course is to offer Urban Governance majors an opportunity to engage themselves in empirical/ applied research projects under a faculty member's supervision and gain hands-on experience in research work. The directed project should normally comprise study of a well-defined and well-bound research topic/project through fieldwork. Students are required to propose, plan, implement and complete the projects; and to demonstrate a mastery of field and practical techniques. Teachers may specify topics/projects considered suitable for small-scale investigation. After completing the projects, students are required to submit a written report, typed with double-line spacing on A4 sheets of paper with a minimum of 6,000 words in length (excluding tables, figures and references). An oral presentation of the completed work is also required. This course is useful to those major students who would be interested in acquiring the research skills for pursuing future research or other postgraduate studies.

ASSESSMENT:

Examination 0%

-

Coursework 100%

• Written report & oral presentation

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	Alignment with Programme Learning Outcomes (PLOs)* 1	2	3	4	5	6	Course Assessment Methods
1	conduct research study on an urban governance-related topic	✔	✔	✔	✔	✔	✔	Written report & oral presentation
2	understand the process of developing and implementing research proposal		✔			✔	✔	Written report & oral presentation
3	acquire the skills on data collection and analysis					✔		Written report & oral presentation
4	undertake independent research skills					✔	✔	Written report & oral presentation
5	acquire report writing skills					✔		Written report & oral presentation
6	acquire analytical and oral presentation skills				✔	✔		Written report & oral presentation

* Geography Programme Learning Outcomes could be found on page 8.

Scholarships & Awards
for HKU Geography Majors

Geography Majors are eligible for the following Scholarships and Prizes:

Dr. Stephen S.F. Hui Prizes in Geography

The family members of Dr. Stephen S.F. Hui have offered to donate the following categories of prizes to the undergraduate and postgraduate students of the Department of Geography

- Best Year 1 Geographer
- Best Year 2 Geographer
- Best Year 3 Geographer
- Best Year 4 Geographer
- Best Overseas Field Report
- Outstanding MPhil RPG Thesis
- Outstanding PhD RPG Thesis

Hui Oi-Chow Prize in Geography

The prize shall be awarded to a final year Geography Major undergraduate student who has achieved the highest aggregate mark based on the best 60 credits of advanced geography courses taken in the geography curriculum.

Hui Yin Hing Scholarship

The prize shall be awarded to a fourth-year Geography Major undergraduate student who has achieved the best results in geology and/or related physical geography courses.

Maisie Choa Geography Prize

The prize shall be awarded to undergraduate students majoring in Geography and/or Urban Governance to support their overseas field trips, for example in the Capstone Experience. A total of two awards shall be made annually to students in their final year of study after participation in the overseas field trips.

Stewart Richards Memorial Prize for Best U.K. Field Trip Performance

The prize shall be annually awarded to a maximum of two final year students who major in Geography and have participated in the U.K. field trip. The selection of the awardee(s) shall be made based on performance during the U.K. field trip and the quality of the subsequent field trip report.

T.N. Chiu Memorial Prize for Best Geography Dissertation

The prize shall be awarded to a final year undergraduate student majoring in Geography who has completed a minimum of 54 credits of advanced courses in the geography curriculum, on the examination result of the 12-credit course "Honours Dissertation".

The 1973 Geography Graduates Scholarship

The scholarship shall be awarded annually to a maximum of two Geography Majors, who must have taken at least four geography courses (each with 6-credits weighting) in the penultimate year of study on the basis of the overall results of their geography courses attained in that academic year.

Royal Geographical Society – Hong Kong Undergraduate Research Grant

This research grant aims to provide financial support to Year 4 Geography/Urban Governance Majors who are conducting research work for their directed project and/or honours dissertation as partial fulfillment for their degree requirement during their normative study period. The research work should be related to Greater China (including Hong Kong), preferably of an applied nature.

Further Studies
at HKU Geography

Research Postgraduate Programmes

The Department runs research postgraduate programmes leading to Master of Philosophy and Doctor of Philosophy degrees for local, Mainland China and overseas graduates with a view to advancing their knowledge and skills in solving real-world problems, especially in Hong Kong, China and the Asia-Pacific region. The former requires candidates to undertake an in-depth study of a chosen area, whereas the latter demands candidates accomplish a study which makes an original contribution to knowledge. Both research degrees involve preparation of a thesis.

For more information, please visit the programme website at:
https://www.geog.hku.hk/mphil-phd

Master of Arts in Transport Policy and Planning Programme

Since 1997

The Master of Arts in Transport Policy and Planning Programme (one-year full-time; two-year/three-year part-time) is co-organised by the Department of Geography, Department of Urban Planning and Design and Department of Civil Engineering. It aims at providing the expanding transport sector in Hong Kong with a steady supply of well-trained professionals at the executive level, as well as providing training for graduates aspiring to pursue careers in the transport field. The Programme offers those already working in the sector opportunities for updating themselves with the latest developments in transport studies. Graduates of this Programme will be automatically exempted from the examination requirements leading to the qualification of Chartered Membership of The Chartered Institute of Logistics and Transport (Hong Kong) - CMILT.

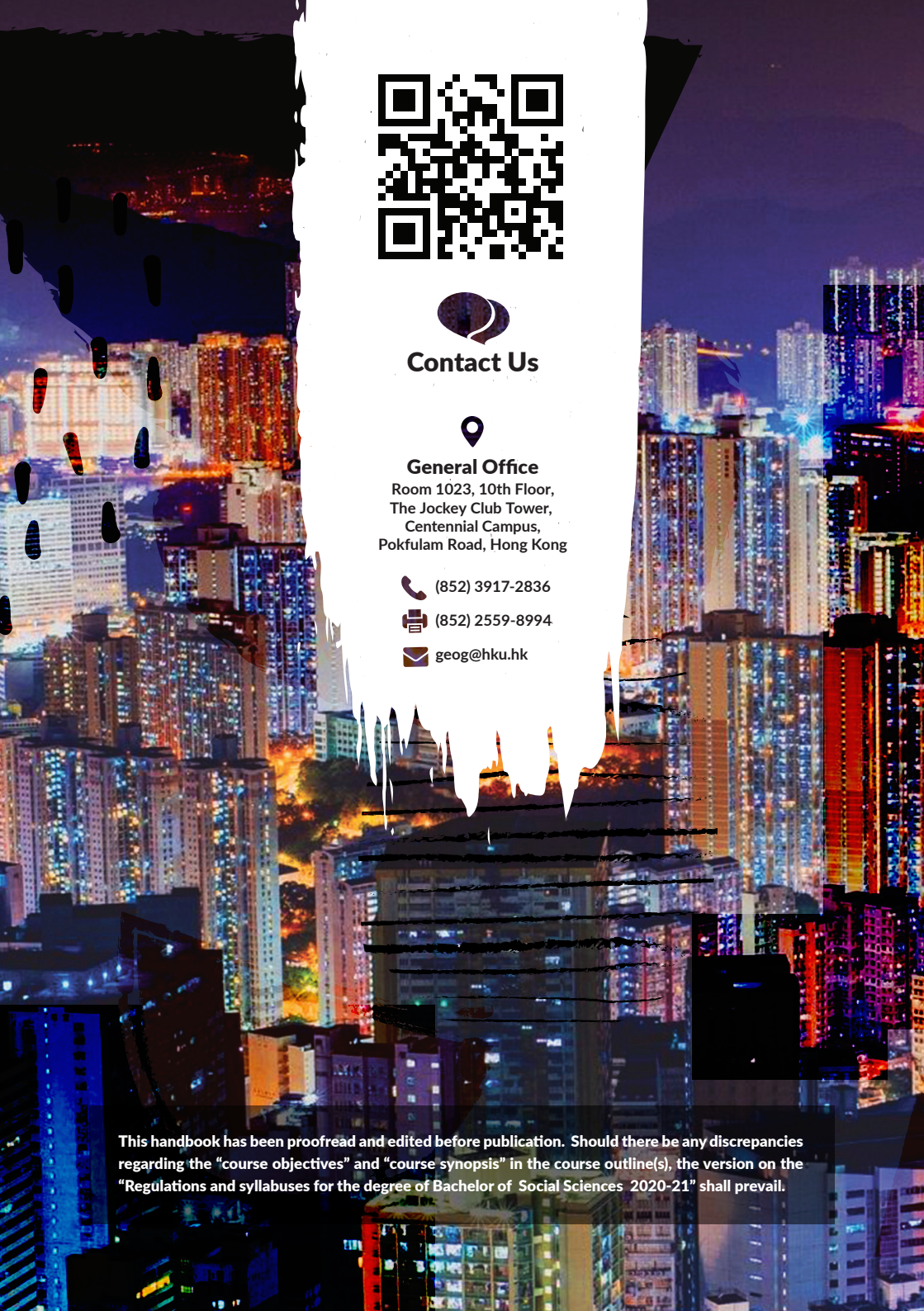
For more information, please visit the programme website at:
https://www.matpp.hku.hk

Master of Arts in China Development Studies Programme

Since 2001

The Master of Arts in China Development Studies is a one-year full-time and two-year part-time programme in which students gain a comprehensive understanding of China by studying the country's global-local interactions and regional variations in economy, environment, investment, policy making, trade, urbanisation and so forth. The programme provides an opportunity to local and international students for systematic training and independent research on development issues in contemporary China.

For more information, please visit the programme website at:
https://www.machds.hku.hk



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This handbook has been proofread and edited before publication. Should there be any discrepancies regarding the "course objectives" and "course synopsis" in the course outline(s), the version on the "Regulations and syllabuses for the degree of Bachelor of Social Sciences 2020-21" shall prevail.