

# City University of Hong Kong

## School of Energy and Environment

### Credit Transfer Pre-approval Record

Important Note:

(For Reference Only)

(As of 21 Sept 2022)

1. Please discuss with your Academic Advisor for advice on your course plan and submit your own "Course Plan and Application for Credit Transfer" to seek preapproval for credit transfer.
2. The record will be reviewed and updated without prior notice. Please take it as a reference only.
3. The course offering units reserve the right to make final decision on course credit transfer pre-approval/approval.
4. The following list shows the courses being pre-approved for credit transfer in 2021/22.

| Courses offered by Exchange Institution   |  |   | CityU Courses |  |
|---|--|---|---------------|--|
| Institution                               | Course Code (Out)                                    | Course Title  | Course Code   | Course Title   |
| Chalmers University of Technology, Sweden | IBB137   | Project Management  | ADSE4024      | Project Management   |
|   | VIN032   | Indoor climate and HVAC   | CA3722        | HVAC Engineering   |
|   | UNA016   | Environmental Policy Instruments                                    | SEE3001       | Energy and Environmental Policy  |
|   | TEK226   | Technology and Society  | SEE4001       | Engineers in Society   |
|   | MEN115   | Energy Systems Modelling and Planning                               | SEE4112       | Sustainable Engineering Systems: Modelling and Analysis                        |
|   | KTK012   | Catalysis   | SEE4115       | Energy Catalysis and Reaction Engineering                                      |
|   | MEN031   | Combustion Engineering  | SEE4216       | Combustion and Air Pollution Control   |
|   | ACE040   | Advanced Wastewater Engineering                                     | SEE4217       | Waste and Wastewater Treatment   |
|   | BOM075   | Drinking Water Engineering  | SEE4218       | Water and Water Resource Engineering   |
|   | VMI035   | Environmental Management  | ADSE4024      | Not Approved   |
| BOM280                                    | Sustainable Development for Civil Engineers          | SEE3104   |               |  |
| Ewha Womans University                    | 38442  | Urban planning and management                                       | GE1337        | Urban Green City: Pollution and Solution                                       |
|   | 37511  | Introduction to Materials Science and Engineering                   | MJR9999       | Energy electives   |
|   | 38442  | Urban planning and management                                       | MJR9999       |  |
|   | 35956  | Environmental Policy & Law  | SEE3001       | Energy and Environmental Policy  |
|   | 33766  | Environmental Ecology   | SEE3003       | Climate Change and Adaptation Strategies                                       |
|   | 38416  | Climate Change  | SEE3003       |  |
|   | 38458  | Global Environmental Management                                     | SEE3003       |  |
|   | 38517  | Career Development in Climate and Energy Systems                    | SEE3003       |  |
|   | 38518  | Basic Engineering Design for Climate and Energy Systems Engineering | SEE3003       |  |
|   | 38522  | Renewable Energy  | SEE3104       | Sustainable and Renewable energy   |
|   | 38416  | Understanding Climate Systems                                       | SEE3201       | Atmospheric Science-An Introductory Survey                                     |
|   | 38516  | Atmospheric Thermodynamics  | SEE3201       |  |
|   | 38455  | Air Pollution Engineering   | SEE3203       | Air Pollution  |
|   | 37279  | Low Carbon Energy Systems   | SEE4116       | Energy and Carbon Auditing   |
|   | 38535  | Introduction to Carbon Capture and Storage                          | SEE4116       |  |
|   | 38535  | Carbon Capture, Utilization, and Storage                            | SEE4116       |  |
|   | 37511  | Introduction to Materials Science and Engineering                   | SEE4120       | Materials Engineering for applications   |
|   | 38455  | Air Pollution Engineering   | SEE4216       | Combustion and Air Pollution Control   |
|   | 34882  | Wastewater Treatment Engineering                                    | SEE4217       | Waste and Wastewater treatment Engineering                                     |
|   | 35336  | Introduction To Environmental Science and Engineering               | SEE3104       | Not Approved   |
| 22020                                     | Advanced Geology and Laboratory Work I               | SEE4002   |               |  |
| 37837                                     | Engineering Instrumental Analysis                    | SEE4112   |               |  |
| 38526                                     | Numerical Modeling and Disastrous Weather Prediction | SEE4112   |               |  |
| 37510                                     | Reaction Engineering                                 | SEE4116   |               |  |
| 37511                                     | Introduction to Materials Science and Engineering    | SEE4122   |               |  |
| Hanyang University, Korea                 | EGY4014  | Nanoscience For Energy  | SEE4113       | Nanotechnology in Energy Conversion and Storage: Concepts and Creative Science |
|   | MME3016  | Mineral Economic Evaluation   | SEE3001       | Not Approved   |
|   | PER4017  | Technology and Policy   | SEE3001       |  |
|   | MME4071  | Underground Space Technology  | SEE3003       |  |
|   | ARE4026  | Environment And Ecological Building                                 | SEE3104       |  |
|   | ARE4002  | Structural Analysis   | SEE4112       |  |
|   | CHM4001  | Instrumental Analysis   | SEE4112       |  |
|   | EGY4015  | Energy Conversion & Storage Materials                               | SEE4120       |  |
| MME4014                                   | Underground Water Engineering                        | SEE4217   |               |  |
| National University of Singapore          | ESE4406  | Energy Systems and Climate Change Mitigation                        | SEE3003       | Climate Change and Adaptation Strategies                                       |
|   | GE3253   | Weather and Climate   | SEE3003       |  |
|   | AR2723   | Strategies for Sustainable Architecture                             | SEE3104       | Sustainable and Renewable Energy   |
|   | EE4511   | Renewable Generation and Smart Grid                                 | SEE3104       |  |
|   | ESE4406  | Energy Systems and Climate Change Mitigation                        | SEE3104       |  |
|   | ID2122   | Ecodesign And Sustainability  | SEE3104       |  |
|   | CM4228   | Catalysis   | SEE4115       | Energy Catalysis and Reaction Engineering                                      |
|   | CN3132   | Separation Processes  | SEE4122       | Chemical Separations for Energy and Environmental Applications                 |
|   | CN4240E  | Unit Operations and Processes for Effluent Treatment                | SEE4217       | Water and Wastewater Treatment   |
|   | ESE2401  | Water Science & Technology  | SEE4217       |  |

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|  | ESE3001                              | Water Quality Engineering                                  | SEE4217  |  |
|  | BT2102                               | Data Management and Visualisation                          | SDSC3002 |  |
|  | BT4222                               | Mining Web Data for Business Insights                      | SDSC3002 | Not Approved   |
|  | EE4503                               | Power Electronics for Sustainable Energy Technologies      | SEE4119  |  |
|  | PF2504                               | Materials Technology                                       | SEE4120  |  |
|  |                                      |  |          |  |
| Peking University                              |                                      | Financial Decisions in Engineering Project Management      | ADSE4024 | Project Management   |
|  |                                      | Intelligent Manufacturing: Data Science and Process Models | ADSE4024 | Not Approved   |
|  |                                      | Fundamentals of Control Theory                             | ADSE4024 |  |
| Pohang University of Science and Technology    | EVSE667                              | Pollutant Analysis   | MJR9999  | Energy electives   |
|  | MECH716                              | Energy Method  | MJR9999  |  |
|  | NUCE733                              | Chemical Process for Waste Management and Decontamination  | MJR9999  |  |
|  | CESD526                              | Data mining  | SDSC3002 | Data mining  |
|  | EVSE582                              | Introduction to Climate Change                             | SEE3003  | Climate Change and Adaption Strategies   |
|  | MECH655/<br>EVSE681                  | Alternative Energy   | SEE3104  | Sustainable and Renewable Energy   |
|  | EVSE520                              | Air Pollution  | SEE3203  | Air Pollution  |
|  | EVSE667                              | Pollutant Analysis   | SEE3203  |  |
|  | AIGS513/CSE<br>D513                  | Simulation   | SEE4112  | Sustainable Engineering Systems: Modelling and Analysis                        |
|  | ADMS521                              | Energy Nanomaterials                                       | SEE4113  | Nanotechnology in Energy Conversion and storage: Concepts and Creative Science |
|  | CHEB511                              | Catalyst   | SEE4115  | Energy Catalyst and Reaction Engineering                                       |
|  | EVSE535                              | Waste Management   | SEE4203  | Advanced Treatment and Management of Solid and Municipal Waste                 |
|  | NUCE733                              | Chemical Process for Waste Management and Decontamination  | SEE4203  |  |
|  | EVSE520                              | Air Pollution  | SEE4216  | Combustion and Air Pollution Control   |
|  | EVSE667                              | Pollutant Analysis   | SEE4216  |  |
|  | EVSE621                              | Wastewater Treatment Engineering                           | SEE4217  | Waste and Wastewater Treatment Engineering                                     |
|  | MECH692                              | Experimental Methods for Thermo-Fluid Dynamics             | CA3677   | Not Approved   |
|  | MECH716                              | Energy Methods   | CA3677   |  |
|  | EVSE5680E                            | Environmental Risk Assessment                              | SEE4004  |  |
|  | EVSE720                              | Photocatalysis for Energy and Environmental Application    | SEE4117  |  |
| AIGS513/<br>CSED513                            | Simulation                           | SEE4204  |          |  |
| EVSE725  | Environmental Bioprocess Engineering | SEE4217  |          |  |
| CHEB553  | Clean process and energy system      | SEE4218  |          |  |
| Queensland University of Technology, Australia | BEB112                               | Principles of Project Management                           | ADSE4024 | Project Management   |
|  | MGB335                               | Managing Projects  | ADSE4024 |  |
|  | EFB226                               | Environmental Economics and Policy                         | SEE3001  | Energy and Energy-related Environmental Policy                                 |
|  | EFB226                               | Environmental Economics and Policy                         | SEE3002  | Energy and Energy-related Environmental Economics                              |
|  | PQB360                               | Global Energy Balance and Climate Change                   | SEE3003  | Climate Change and Adaptation Strategies                                       |
|  | PQB360                               | Global Energy Balance and Climate Change                   | SEE3104  | Sustainable and Renewable Energy   |
|  | EGB100                               | Engineering Sustainability and Professional Practice       | SEE4001  | Engineers in Society   |
|  | CVB221                               | Unit Operations  | SEE4217  | Water and Wastewater Treatment   |
|  | EGB377                               | Water and Waste Water Engineering                          | SEE4217  |  |
|  | EGB383                               | Environmental Resource Management                          | SEE4217  |  |
|  | EGB377                               | Water and Waste Water Engineering                          | SEE4218  | Water Quality Engineering  |
|  | BEB111                               | Managing Project Quality                                   | ADSE4024 | Not Approved   |
| DLN104   | Critical Ecologies                   | SEE3003  |          |  |
| Texas A&M International University             | SENG3337                             | Software Development                                       | CS3347   | Software Engineering Principles and Practice                                   |
|  | SENG3310                             | Intro to control systems                                   | MBE3058  | Embedded Control Systems   |
|  | SENG3340                             | Robotics and Automation                                    | MNE4011  | Industrial Mechatronic Systems   |
|  | SENG3370                             | Computer Integrated Manufacturing                          | MNE4011  |  |
|  | SENG4315                             | Embedded Systems   | EE3220   | Not Approved   |
|  | SENG4315                             | Embedded Systems   | EE4220   |  |
| SENG3340                                       | Robotics and Automation              | MBE4006  |          |  |
| University College London                      | MECH0032                             | New and Renewable Energy Systems                           | SEE3104  | Sustainable and Renewable energy   |
| University of Bremen, Germany                  | SZHB6008                             | Deutsch / German (A2.1)                                    | LT3504   | German 4   |
|  | 01-01-03-<br>ClIS2-V                 | Climate System II  | SEE3201  | Atmospheric Science – An Introductory Survey                                   |
|  | 01-01-03-<br>Dyn1                    | Dynamics I   | SEE3201  |  |
|  | 01-01-03-<br>TUAt                    | The Upper Atmosphere                                       | SEE3201  |  |
|  | 05-BMG-EE3-<br>1                     | Climate and Ocean  | SEE3201  |  |
|  | 05-MAR-1-C1                          | Climate Change I: Fundamentals                             | SEE3201  |  |
| 08-PG-1-CL1                                    | Climatology I                        | SEE3201  |          |  |

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|  | 01-01-03-GCC  | Global Carbon Cycle   | SEE4216                                  | Not Approved   |
| University of California, Los Angeles (UCLA) | ENVIRON 140   | Foundation of Environmental Policy and Regulation               | MJR9999                                  | Environmental electives  |
|  | ENVIRON M153  | Introduction to Sustainable Architecture and Community Planning | MJR9999                                  |  |
|  | URBN PL CM166   | Global Environment and Development: Problems and Issues         | MJR9999                                  |  |
|  | URBN PL M120  | Introduction to Cities and Planning                             | MJR9999                                  |  |
|  | URBN PL M165  | Environmentalism: Past, Present, and Future                     | MJR9999                                  |  |
|  | URBN PL M167  | Environmental Justice through Multiple Lenses                   | MJR9999                                  |  |
|  | ENVIRON 140   | Foundation of Environmental Policy and Regulation               | SEE3001                                  | Energy & Environmental Policy  |
|  | URBN PL CM166   | Global Environment and Development: Problems and Issues         | SEE3001                                  |  |
|  | URBN PL M167  | Environmental Justice through Multiple Lenses                   | SEE3001                                  |  |
|  | ENVIRON M153  | Introduction to Sustainable Architecture and Community Planning | SEE4205                                  | Design of Smart Cities and Sustainable Building                                |
|  | URBN PL M120  | Introduction to Cities and Planning                             | SEE4205                                  | Not Approved   |
| University of Exeter                         | ECM2207   | Project Management  | ADSE4024                                 | Project Management   |
|  | CSM1039   | Energy Policy, Markets and Law (Penryn)                         | SEE3001                                  | Energy and Energy-related Environment Policy                                   |
|  | CSM1039   | Energy Policy, Market and Law                                   | SEE3001                                  |  |
|  | POL3077   | Global Environmental Politics and Policy (Streatham)            | SEE3001                                  |  |
|  | CSM1039   | Energy Policy, Markets and Law                                  | SEE3001                                  |  |
|  | POL2046   | The Economics of Politics                                       | SEE3001                                  |  |
|  | POL3250   | Environmental Policy in Times of Crisis                         | SEE3001                                  |  |
|  | POL3263   | Political Economy of Development                                | SEE3001                                  |  |
|  | POL3077   | Global Environmental Politics and Policy                        | SEE3001                                  |  |
|  | ECMM163   | Sustainable Engineering   | SEE3104                                  | Sustainable and Renewable Energy   |
|  | ECMM136   | Systems Analysis in Engineering                                 | SEE4112                                  | Sustainable Engineering Systems: Modelling and Analysis                        |
|  | ENE3002   | Network Engineering, Modelling and Management                   | SEE4112                                  | Nanotechnology in Energy Conversion and Storage: Concepts and Creative Science |
|  | ECM1107   | Materials and Manufacturing: Core Engineering 2                 | SEE4113                                  |  |
|  | CSM2177   | Electrical Energy Conversion and Transport                      | SEE4119                                  | Electrical Energy Conversion   |
|  | CSM2188   | Mechanics of Materials  | SEE4120                                  | Materials Engineering for Energy Applications                                  |
|  | ECM1107   | Materials and Manufacturing: Core Engineering 2                 | SEE4120                                  |  |
|  | ENG1008   | Fundamentals of Materials                                       | SEE4120                                  |  |
|  | CSM2188   | Mechanics of Materials  | SEE4120                                  |  |
|  | GEO2454   | Waste and Society   | SEE4203                                  | Advanced Treatment and Management of Solid and Municipal Waste                 |
|  | ECMM132   | Urban Drainage and Waste Water Management                       | SEE4217                                  | Waste and Wastewater Treatment   |
| CSM2187                                      | Project Management and Accounting                           | ADSE4024  | Not Approved                             |  |
| BEM1023                                      | Discovering Management(Streatham)                           | CB2300  |  |  |
| ENE3010                                      | Sustainable Architecture                                    | SEE3204   |  |  |
| ENE3004                                      | Life Cycle Analysis   | SEE4004   |  |  |
| ECM2106                                      | Manufacturing Systems                                       | SEE4112   |  |  |
| ECMM160                                      | Engineering Materials and the Environment                   | SEE4120   |  |  |
| ENE3002                                      | Network Engineering, Modelling and Management               | SEE4204   |  |  |
| University of Lausanne, Switzerland          | 53850   | Introduction to Ecological Economics                            | EF3040                                   | Economics of Environment   |
|  | M0124   | Environmental Economics   | EF3040                                   | Energy electives   |
|  | 62292   | SPACE-GEOENERGY: Geomatics and geo-energy                       | MRJ9999                                  |  |
|  | 56402   | Environmental data mining                                       | SDSC3002                                 | Data Mining  |
|  | 52204   | Elements of Economics Sciences                                  | SEE3001                                  | Energy and Environmental Policy  |
|  | 62716   | Environmental management and livelihoods                        | SEE3001                                  |  |
|  | 73724   | Political Ecology   | SEE3001                                  |  |
|  | 50727   | Environmental risks   | SEE3003                                  | Climate Change and Adaptation Strategies                                       |
|  | 73917   | Introduction to social sciences                                 | SEE4001                                  | Engineers in Society   |
|  | 50727   | Environmental risks   | SEE4004                                  | Environmental Impact Assessment for Sustainable Development                    |
|  | M0913   | Environmental Crisis and Societal Change                        | SEE4004                                  |  |
|  | 52204   | Elements of Economics Sciences                                  | EF3040                                   | Not Approved   |
|  | 53848   | Management of natural resources                                 | MSE4176                                  |  |
|  | B0386   | Corporate Sustainability: The Environmental Perspective         | POL3242                                  |  |
|  | 63684   | Environmental data analysis and practice                        | SDSC3002                                 |  |
| 69092  | Waste management, treatment, and storage                    | SEE4217   |  |  |
| 85182  | Industrial Ecology  | SEE4217   |  |  |
| PIED1806                                     | Contemporary Africas: Politics, Society and the Environment | SEE3001   | Energy and Environmental Policy          |  |
| SOEE1450                                     | Environmental Politics and Policy                           | SEE3001   | Climate Change and Adaptation Strategies |  |
| SOEE2160                                     | Climate Change: Science and Impacts                         | SEE3003   |  |  |

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| University of Leeds  | CAPE3411   | Renewable Technologies                                      | SEE3104  | Sustainable and Renewable Energy  |
|  | SOEE3431   | Atmospheric Pollution: Causes, Impact and Regulation        | SEE3203  | Air Pollution   |
|  | SOEE2165   | Climate Change : Society and Human Dimension                | SEE4116  | Energy and Carbon Auditing  |
|  | CIVE3420   | Wastewater engineering                                      | SEE4217  | Waste and wastewater treatment  |
|  | SOEE1460   | Environmental Science for Environmental Management          | CHEM4039 | Not Approved  |
| University System of Taiwan -<br>National Tsing Hua University | 11010GEC<br>150700   | Environmental Governance and Management                     | SEE3001  | Energy and Environmental Policy   |
|  | 10920BMES43<br>2200  | Global Warming and Environmental Impact                     | SEE3003  | Climate Change and Adaptation Strategies  |
|  | 10920GEC<br>120202   | Eco-system and Global Changes                               | SEE3003  |   |
|  | 10920ESS<br>105000   | Introduction to Energy and Environment                      | SEE3104  | Sustainable and Renewable energy  |
|  | 10920CHE<br>494000   | Fundamentals of Optoelectronic Materials and Devices        | SEE4113  | Nanotechnology in Energy Conversion and Storage:<br>Concepts and Creative Science |
|  | 10920PME<br>334900   | Nanotechnology and its applications                         | SEE4113  |   |
|  | 10920ESS<br>454000   | Principles and Applications of Fuel Cells                   | SEE4115  | Solar Energy Engineering  |
|  | 10920MS<br>102201  | Material Science and Engineering II                         | SEE4120  | Materials Engineering for Energy Applications                                     |
|  | 10920ECON<br>333700  | Environmental Economics                                     | SEE3001  | Not Approved  |
|  | 10920TEE<br>100702   | Introduction to Natural Science                             | SEE3104  |   |
|  | 10920CHE<br>114001   | Material and Energy Balance                                 | SEE4115  |   |
|  | 10920MS<br>103200  | General Chemistry (II)                                      | SEE4115  |   |
|  | 10920ESS<br>455000   | Solar Cell Laboratory and Project Study                     | SEE4117  |   |
|  | 10920CHE<br>494000   | Fundamentals of Optoelectronic Materials and Devices        | SEE4120  |   |
|  | 10920AES<br>370100   | Environmental Science and Engineering                       | SEE4217  |   |
| 10920GE<br>122100  | Environmental Protection and Life  | SEE4217   |          |   |
| Vrije Universiteit Amsterdam                                   |  | Challenges for a Global Energy Transition in a Fossil World | MJR9999  | Energy Electives  |
|  |  | Governing Climate Change: Theory and Practice               | MJR9999  |   |
|  |  | Governing Climate Change: Theory and Practice               | POL3239  | Sustainable Development and Climate Change  |
|  |  | Big Data Management and Analysis in the Linux Environment   | SDSC3002 | Not Approved  |
|  |  | Data Analysis in R  | SDSC3002 |   |
|  | Feeding the billions: challenges and Innovation in Food and Water Security | VM2104  |          |   |