

**IMPORTANT NOTES:**

1. The following is a list of fully English-taught courses for the Fall and Winter semesters of the 2025-2026 academic year for reference only. The courses available for the Fall and Winter semesters of the 2026-2027 academic year will be subject to the final course offerings in the course selection system after students complete their registration on campus.

2. The ZJU Haining International Campus, located in Haining (conveniently situated between Shanghai and Hangzhou), has adopted a model of creating Joint Institutes with partner universities, and Joint Institutes have already been successfully established with the University of Edinburgh and the University of Illinois at Urbana-Champaign (ZJU-UoE and ZJU-UIUC Institutes). Besides, Zhejiang University International Business School (ZIBS) was founded. Courses offered by ZJU-UIUC Institute and ZIBS are also open to undergraduate exchange students (ZJE is NOT open to exchange students). Haining Campus utilizes a separate course selection system from those of Zijingang and Yuquan Campuses. Students are not allowed to cross-register for courses between Haining Campus and Campuses located in Hangzhou.

| Course Code | Quarter     | Course Name(CN)        | Course Name (EN)   | School/College  | ZJU Campus       | Credit | Course Description                                |
|-------------|-------------|------------------------|--|---|------------------|--------|---|
| PHIL2028M   | Fall        | 批判性推理                  | Critical Reasoning   | School of Philosophy                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| PHIL3038M   | Fall        | 哲学逻辑                   | Philosophical Logic  | School of Philosophy                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| PHIL3041M   | Fall        | 当代知识论                  | Contemporary Epistemology  | School of Philosophy                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| PHIL3068M   | Fall&Winter | 哲学学术英语：研读和写作           | Academic English In Philosophy   | School of Philosophy                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| PHAR0600G   | Fall        | 生命科学经典发现解读             | Classical Discoveries in Life Science                                    | School of Medicine  | Zijingang Campus | 1.5    | Please refer to Sheet <i>Course Description</i> . |
| PHAR4503M   | Fall&Winter | 化学生物学与药物               | Chemical Biology And Drugs   | School of Medicine  | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| ISEE3057M   | Fall&Winter | 射频电路与系统                | Rf Circuits And Systems  | College of Information Science and Electronic Engineering | Yuquan Campus    | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| PSY3012M    | Fall        | 结构方程模型及其应用             | Structural Equation Modeling and Its Applications                        | Department of Psychology and Behavioral Sciences          | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| PSY3028M    | Fall&Winter | 病理学：人工智能在行为与认知神经科学中的应用 | Behavioural and Cognitive Neuroscience for Human Psychopathology         | Department of Psychology and Behavioral Sciences          | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| PHY4002M    | Winter      | 量子力学II                 | Quantum Mechanics II   | School of Physics   | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| LIT3115M    | Fall&Winter | 语言与社会                  | Language and Society   | School of Literature                                      | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS2007M    | Fall&Winter | 美国文学史                  | History Of American Literature   | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS2007M    | Fall&Winter | 美国文学史                  | History Of American Literature   | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS2807M    | Fall&Winter | 跨文化与国际合作               | Cross-Culture & International Cooperation                                | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS2808M    | Fall&Winter | 国际组织外语能力拓展             | Foreign Language Competence Building For International Organizations     | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS4207M    | Fall&Winter | 德国文学理论                 | German Literature Theories   | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| SIS4303M    | Fall&Winter | 法语学术写作与研究方法            | French Academic Writing And Research Methods                             | School of International Studies                           | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| MATH3703M   | Fall&Winter | 渐近法与摄动理论               | Asymptotic Methods And Perturbation Theory                               | School of Mathematical Sciences                           | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| BME3020M    | Fall        | 生物医学光学成像前沿导论           | Frontiers In Biomedical Optics   | College of Biomedical Engineering and Instrument Science  | Yuquan Campus    | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CAB1010M    | Fall        | 植物-微生物的相互作用及可持续农业      | Plant-Microbes Interactions And Sustainable Agriculture                  | College of Agriculture and Biotechnology                  | Zijingang Campus | 1.5    | Please refer to Sheet <i>Course Description</i> . |
| CAB1010M    | Winter      | 植物-微生物的相互作用及可持续农业      | Plant-Microbes Interactions And Sustainable Agriculture                  | College of Agriculture and Biotechnology                  | Zijingang Campus | 1.5    | Please refer to Sheet <i>Course Description</i> . |
| CAB2012M    | Fall        | 农业化学生物学专论              | Special Topics On Agro-Chemical Biology                                  | College of Agriculture and Biotechnology                  | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CAB3011M    | Fall        | 基因操作原理                 | Principle For Gene Manipulation  | College of Agriculture and Biotechnology                  | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| 59120230    | Winter      | 异性催化与可持续发展             | Heterogeneous catalysis and sustainable development                      | College of Energy Engineering                             | Yuquan Campus    | 1.5    | Please refer to Sheet <i>Course Description</i> . |
| ENER3226M   | Fall        | 高分子复合材料与能源装备           | Polymer Composites for Energy Equipment                                  | College of Energy Engineering                             | Yuquan Campus    | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| MED3318M    | Winter      | 脑疾病的神经生物学              | Neurobiology of Brain Disorders  | School of Brain Science and Brain Medicine                | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CSE401G     | Fall        | 现代仿生科学和工程导论            | Introduction to Modern Bionics   | College of Control Science and Engineering                | Zijingang Campus | 1.5    | Please refer to Sheet <i>Course Description</i> . |
| 01196770    | Fall&Winter | 宏观经济与政策分析              | Macroeconomic and Policy Analyses  | School of Economics                                       | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| ECON2024M   | Fall&Winter | 中级微观经济学                | Intermediate Microeconomics  | School of Economics                                       | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| ECON2025M   | Fall&Winter | 宏观经济与政策分析              | Macroeconomic And Policy Analyses  | School of Economics                                       | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| ECON3014M   | Winter      | 规制经济学                  | Regulation Economics   | School of Economics                                       | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| ECON3021M   | Fall&Winter | 国际税收                   | International Taxation   | School of Economics                                       | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| ECON3041M   | Fall        | 市场摩擦理论                 | Markets With Frictions   | School of Economics                                       | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| EDU3020M    | Fall        | 智能教育的理论与实践             | Theory And Practice Of Artificial Intelligence In Education              | College of Education                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| EDU3045M    | Fall&Winter | 运动技能学习与控制              | Motor Learning And Control   | College of Education                                      | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| EDU4003M    | Winter      | 国际组织教育政策研究             | Understanding International Education Policy                             | College of Education                                      | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CCEA3765M   | Winter      | 工程设计                   | Engineering Design   | College of Civil Engineering and Architecture             | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CCEA4111M   | Fall        | 绿色建筑                   | Green Building   | College of Civil Engineering and Architecture             | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CCEA4111M   | Fall        | 绿色建筑                   | Green Building   | College of Civil Engineering and Architecture             | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CCEA4604M   | Winter      | 城乡规划专题化设计              | Specialized Urban And Rural Planning Design                              | College of Civil Engineering and Architecture             | Zijingang Campus | 2.0    | Please refer to Sheet <i>Course Description</i> . |
| CS2294M     | Fall&Winter | 大规模数据分析与机器学习模型中的优化     | Large-Scale Data Analysis and Algorithm Optimization in Machine Learning | College of Computer Science and Technology                | Zijingang Campus | 3.0    | Please refer to Sheet <i>Course Description</i> . |
| CS3216M     | Fall        | 智能视觉信息采集               | Intelligent Acquisition Of Visual Information                            | College of Computer Science and Technology                | Yuquan Campus    | 2.5    | Please refer to Sheet <i>Course Description</i> . |

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|-----------|-------------|------------------------|--|--|------------------|-----|--|
| CS4239M   | Fall&Winter | 整合创新设计                 | Integrated And Innovative Design                             | College of Computer Science and Technology     | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| MED2034M  | Fall&Winter | 系统解剖学                  | Systematic Anatomy   | School of Basic Medical Sciences               | Zijingang Campus | 3.5 | Please refer to Sheet <i>Course Description</i> .  |
| 58190080  | Fall        | 移动机器人与机电一体化专题          | ELECTED TOPICS IN MOBILE ROBOTICS AND MECHATRONIC            | School of Mechanical Engineering               | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| ME4448M   | Fall        | 工程经济学                  | Engineering Economy  | School of Mechanical Engineering               | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| ENVR2110M | Fall&Winter | 环境生物化学                 | Environmental Biochemistry                                   | College of Environmental and Resource Sciences | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| ENVR3104M | Winter      | 全球气候变化                 | Global Climate Change  | College of Environmental and Resource Sciences | Zijingang Campus | 1.5 | Please refer to Sheet <i>Course Description</i> .  |
| CHEM2001F | Fall&Winter | 物理化学                   | Physical Chemistry   | Department of Chemistry                        | Zijingang Campus | 4.0 | Please refer to Sheet <i>Course Description</i> .  |
| AA2012M   | Winter      | 模糊控制和人工神经网络            | Fuzzy Control And Artificial Neural Networks                 | School of Aeronautics and Astronautics         | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| AA3047M   | Fall        | 颗粒动力学基础                | Fundamentals of Particle Dynamics                            | School of Aeronautics and Astronautics         | Yuquan Campus    | 1.5 | Please refer to Sheet <i>Course Description</i> .  |
| LAW3006M  | Fall&Winter | 比较企业法                  | Comparative Business Organizations                           | Guanghua Law School                            | Zhejiang Campus  | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| OPT3036M  | Winter      | Introduction to Optics | Introduction to Optics                                       | College of Optical Science and Engineering     | Yuquan Campus    | 1.5 | Please refer to Sheet <i>Course Description</i> .  |
| OPT3058M  | Fall        | 硅光子学：技术与器件             | Silicon Photonics: Technology And Devices                    | College of Optical Science and Engineering     | Yuquan Campus    | 1.5 | Please refer to Sheet <i>Course Description</i> .  |
| MGMT1001F | Fall&Winter | 管理学                    | Fundamentals of Management                                   | School of Management                           | Zijingang Campus | 3.0 | Please refer to Sheet <i>Course Description</i> .  |
| MGMT2001M | Winter      | 管理信息系统                 | Management Information Systems                               | School of Management                           | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| MGMT2014M | Fall        | 战略管理                   | Strategic Management   | School of Management                           | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| MGMT3037M | Fall        | 消费者信息处理与决策             | Consumer Information Processing And Decision Making          | School of Management                           | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA2036M   | Fall&Winter | 中级微观经济学                | Intermediate Microeconomics                                  | School of Public Affairs                       | Zijingang Campus | 3.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA2096M   | Winter      | 全球发展与国际援助              | Global Development and Overseas Aid                          | School of Public Affairs                       | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA3048M   | Winter      | 土地与国家治理                | Land Policy and State Governance                             | School of Public Affairs                       | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA3123M   | Fall        | 土地问题与粮食安全              | Land Conflict and Food Security                              | School of Public Affairs                       | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA3312M   | Winter      | 复杂系统思维与基于主体建模          | Complex system thinking and agent-based modelling            | School of Public Affairs                       | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| PA3314M   | Winter      | 复杂系统研究--制度、经济与环境       | Institutions, Economics and Environment for the Anthropocene | School of Public Affairs                       | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| EE3692M   | Fall        | 人工智能与安全                | Trustworthy Machine Learning                                 | College of Electrical Engineering              | Yuquan Campus    | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| EE4462M   | Fall&Winter | 电力系统运行与控制              | Power System Operation and Control                           | College of Electrical Engineering              | Yuquan Campus    | 3.0 | Please refer to Sheet <i>Course Description</i> .  |
| EE4561M   | Fall        | 电动汽车和混合动力汽车系统          | Electric and Hybrid Vehicles system                          | College of Electrical Engineering              | Yuquan Campus    | 1.0 | Please refer to Sheet <i>Course Description</i> .  |
| MIC2100M  | Fall&Winter | 媒介与全球化                 | Media And Globalization                                      | College of Media and International Culture     | Zijingang Campus | 3.0 | Please refer to Sheet <i>Course Description</i> .  |
| MSE3304M  | Fall        | 材料热力学                  | Thermodynamics of Materials                                  | School of Materials Science and Engineering    | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| MSE3323M  | Winter      | 磁学基础和先进磁性纳米材料          | Magnetism And Advanced Magnetic Nanomaterials                | School of Materials Science and Engineering    | Zijingang Campus | 2.0 | Please refer to Sheet <i>Course Description</i> .  |
| MATH 213  | Fall        |                        | Introduction to Discrete Mathematics                         | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| MATH 257  | Fall        |                        | Linear Algebra with Computational Applications               | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| MATH 241  | Fall        |                        | Calculus III   | ZJU-UIUC Institute                             | Haining Campus   | 4   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| PHYS 212  | Fall        |                        | University Physics: Elec& Mag                                | ZJU-UIUC Institute                             | Haining Campus   | 4   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ME 270    | Fall        |                        | Design for Manufacturability                                 | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| TAM 211   | Fall        |                        | Statics  | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 313   | Fall        |                        | Probability with Engineering Application                     | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 314   | Fall        |                        | Probability in Engineering Lab                               | ZJU-UIUC Institute                             | Haining Campus   | 1   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 329   | Fall        |                        | Fields and Waves I   | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 464   | Fall        |                        | Power Electronics  | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 469   | Fall        |                        | Power Electronics Lab  | ZJU-UIUC Institute                             | Haining Campus   | 2   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 486   | Fall        |                        | Control Systems  | ZJU-UIUC Institute                             | Haining Campus   | 4   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 459   | Fall        |                        | Communications System  | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CS 450    | Fall        |                        | Numerical Analysis   | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CEE 495   | Fall        |                        | Professional Practice  | ZJU-UIUC Institute                             | Haining Campus   | 0   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CEE 460   | Fall        |                        | Steel Structures I   | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CEE 470   | Fall        |                        | Structural Analysis  | ZJU-UIUC Institute                             | Haining Campus   | 4   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CEE 416   | Fall        |                        | Traffic Capacity Analysis                                    | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CEE 434   | Fall        |                        | Environmental Systems I                                      | ZJU-UIUC Institute                             | Haining Campus   | 3   | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |

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| ME 371         | Fall        |  | Mechanical Design II                          | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ME 412         | Fall        |  | Numerical Thermo-Fluid Mechanics              | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 470/ME 445 | Fall        |  | Introduction to Robotics                      | ZJU-UIUC Institute | Haining Campus | 4 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 457        | Fall        |  | Microwave Devices & Circuits                  | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ME 471         | Fall        |  | Finite Element Analysis                       | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 490        | Fall        |  | Introduction to Optimization                  | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CS 442         | Fall        |  | Trustworthy machine learning                  | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 4--        | Fall        |  | Mathematical Foundations for Machine Learning | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECE 4--        | Fall        |  | Embodied Artificial Intelligence              | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| PHIL 101       | Fall        |  | Introduction to Philosophy                    | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CLCV 115       | Fall        |  | Mythology of Greece and Rome                  | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECON 102       | Fall        |  | Introduction to Microeconomics                | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ECON 103       | Fall        |  | Macroeconomic Principles                      | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| CMN 280        | Fall        |  | Communication, Technology and Society         | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| UNWL 316       | Fall        |  | Modern Chinese Literature                     | ZJU-UIUC Institute | Haining Campus | 3 | For each course, students can have their detail info within this site: <a href="https://courses.illinois.edu/">https://courses.illinois.edu/</a> |
| ENG B1001      | Fall/Winter |  | Academic English Writing                      | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| MATH B1001     | Fall/Winter |  | Mathematics & Statistics I                    | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| COMMMGT B1001  | Fall/Winter |  | Communications Studies 1                      | ZIBS               | Haining Campus | 2 | Please refer to Sheet <i>Course Description</i> .  |
| COMMMGT B1005  | Fall/Winter |  | Global Communication                          | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| COMMMGT B1003  | Fall/Winter |  | Intercultural Communication                   | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| MGT B1001      | Fall/Winter |  | Fundamentals of Management                    | ZIBS               | Haining Campus | 4 | Please refer to Sheet <i>Course Description</i> .  |
| MGT B1009      | Fall/Winter |  | Operations Management                         | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| F B1002        | Fall/Winter |  | Introduction to Fintech                       | ZIBS               | Haining Campus | 1 | Please refer to Sheet <i>Course Description</i> .  |
| ECON B1002     | Fall/Winter |  | Macroeconomics                                | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| COMMMGT B1009  | Fall/Winter |  | Social Media marketing                        | ZIBS               | Haining Campus | 4 | Please refer to Sheet <i>Course Description</i> .  |
| GCM-FB1004     | Fall/Winter |  | Fundamental Accounting Principles             | ZIBS               | Haining Campus | 3 | Please refer to Sheet <i>Course Description</i> .  |
| MGT B1017      | Fall/Winter |  | Organizational Behavior and Leadership        | ZIBS               | Haining Campus | 4 | Please refer to Sheet <i>Course Description</i> .  |

**IMPORTANT NOTES:**

1. The following is a list of fully English-taught courses for the Fall and Winter semesters of the 2025-2026 academic year, for reference only. The courses available for the Fall and Winter semesters of the 2026-2027 academic year will be subject to the final course offerings in the course selection system after students complete their registration on campus.
2. The ZJU Haining International Campus, located in Haining (conveniently situated between Shanghai and Hangzhou), has adopted a model of creating Joint Institutes with partner universities, and Joint Institutes have already been successfully established with the University of Edinburgh and the University of Illinois at Urbana-Champaign (ZJU-UoE and ZJU-UIUC Institutes). Besides, Zhejiang University International Business School (ZIBS) was founded. Courses offered by ZJU-UIUC Institute and ZIBS are also open to undergraduate exchange students (ZJU-UoE is NOT open to exchange students). Haining Campus utilizes a separate course selection system from those of Zijingang and Yuquan Campuses. Students are not allowed to cross-register for courses between Haining Campus and Campuses located in Hangzhou.

| Course Code | Course Name (CN) | Course Name (EN)          | Course Description   |
|-------------|------------------|---------------------------|--|
| PHIL2028M   | 批判性推理            | Critical Reasoning        | Critical reasoning is about how to make and evaluate arguments and explanations. This course will introduce you to various forms of arguments and explanations, and methods of assessing and criticizing them. By the end of the course, you should be better able to make your own arguments cogently, criticise those of others accurately, and reason clearly.  |
| PHIL3038M   | 哲学逻辑             | Philosophical Logic       | Philosophical logic departs from classical logic with regard to the principle of bivalence (every statement is either true or false) or the principle of non-contradiction (no statement is both true and false), or both. In this course, the main properties of classical logic and non-classical logics will be discussed. Then, the following three directions of non-classical logics will be introduced: modal logic, non-monotonic logics and formal argumentation. |
| PHIL3041M   | 当代知识论            | Contemporary Epistemology | This course is a general overview of some major recent and contemporary debates in epistemology. The course will cover the following topics: 1) the analysis of knowledge, 2) the nature of epistemic justification 3) the problem of skepticism, 4) knowledge and action, 4) formal epistemology. The course doesn't presuppose any prior study in epistemology. The language of the course is English.   |

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| PHIL3068M | 哲学学术英语：研读和写作 | Academic English In Philosophy        | <p>English is the language most widely used by international philosophical journals and all kinds of academic activities in philosophy. Being able to fluently read English philosophical texts and writing philosophical articles in English is essential for conducting cutting-edge research in philosophy. This course aims to develop students' critical reading skills of philosophy texts in English and to develop students' skills in writing philosophy essay in English. The course is divided into two parts. The first part of the course will focus on learning how to critically approach English philosophy texts, understand core ideas in a text, identify the main theses and arguments, synthesize, present and discuss a text. The second part of the course focuses on how to develop, organize, revise and edit a philosophy essay in English. The language of the course is English.</p> |
| PHAR0600G | 生命科学经典发现解读   | Classical Discoveries in Life Science | <p>The field of life sciences is full of unraveled secrets. Nevertheless, thanks to the work of thousands of scientists all over the world, our knowledge of life sciences is increasing every day. This course aims to introduce the basic principles as well as the latest discoveries in life sciences in a vivid and easy-to-understand way, which will be suitable for college students of different backgrounds. In each semester, hot scientific issues of major research areas in life sciences will be selectively categorized and introduced to students. Multiple areas of life sciences are involved, including cell biology, developmental biology, genetics, immunology, neurology and public health.</p>  |
| PHAR4503M | 化学生物学与药物     | Chemical Biology And Drugs            | <p>This course mainly introduces the basic concepts and development progress of chemical biology. Based on it, the application of related theories and technologies in the study of drug target with a focus on chemical probes, peptide chemistry and click chemistry. At the end of the course, students are encouraged to give an English presentation through literature surveys to further consolidate what they have learned from the class.</p>   |

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| ISEE3057M | 射频电路与系统                      | Rf Circuits And Systems  | <p>The course introduce the system of radio frequency wireless communication circuit to students, and show the theory of RF and microwave communication circuit of the basic. Students can know the design method and get design training from the course. The course contains the following: the basics knowledge of RF and microwave circuits, passive circuit analysis and design of RF and microwave communication circuits, active circuit analysis and design of RF and microwave communication circuits, and RF and microwave communication circuit simulation experiments based on simulation software environment. Through the learning of this course, students can get the design ability of GHz band circuits, and have the basis of further learning in related fields</p>  |
| PSY3012M  | 结构方程模型及其应用                   | Structural Equation Modeling and Its Applications                | <p>The course introduces into modern methods for statistical investigations in differential research. A core characteristic of these methods is the use of models for representing and investigating the structure of data. Hypotheses regarding the structure of data and general theories regarding the structure of ability and personality get transformed into statistical models, and in the statistical investigation it is checked whether they reflect the represent the data collected in empirical research sufficiently well. These modern methods for statistical investigations have been specified in different ways for investigating the research questions of various areas of psychological research, as for example whether a measurement scale shows a good psychometric quality, whether a finding found to characterize one populations of participants hold in another one too or whether there is the expected developmental change, and so on.</p>   |
| PSY3028M  | 心理学与精神病理学：人工智能在行为与认知神经科学中的应用 | Behavioural and Cognitive Neuroscience for Human Psychopathology | <p>This course systematically introduces the applications of neural network models in the study of human learning, decision-making, and mental disorders, integrating cutting-edge approaches from cognitive neuroscience and artificial intelligence. It covers foundational theories such as associative learning, predictive error computation, and neural mechanisms of decision-making, while delving into computational modeling methods for clinical issues like depression, fear disorders, and psychosis. Through AI techniques including neural networks and reinforcement learning, it analyzes brain imaging and behavioral data to reveal the neural mechanisms underlying cognitive and emotional disorders. Emphasizing the integration of theoretical modeling and clinical applications while exploring the ethical boundaries of neural prediction. Suitable for students in psychology, neuroscience, and AI-related fields, it requires no prior programming experience and provides comprehensive training from theory to practice.</p> |

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| PHY4002M | 量子力学II | Quantum Mechanics II           | This optional course is provided for undergraduate students who have passed the course of Quantum Mechanics I and are eagerly to learn further topics in quantum mechanics. In this course, some fundamental theories and approximation methods related to the study of condensed-matter physics will be instructed. Additionally, some advanced topics such as “spintronics” and Bose-Einstein condensate will be introduced.   |
| LIT3115M | 语言与社会  | Language and Society           | This course is an introduction to the connection between language and social identity as it is studied from a variety of methodologies and perspectives, including ethnography, variationist sociolinguistics, and experimental sociolinguistics in the lab. Topics to be examined include the following: How do we create our intersecting identities when we use language? How do social factors such as age, gender, ethnicity, and socioeconomic class influence the way people use language? How do individual speakers use language differently in different situations? How do social and regional dialects differ from each other, and why? How does language change spread within and between communities? Students will collect and analyze data from real-life speech to explore the social correlates of linguistic behavior, using both qualitative and quantitative methods to analyze their data. |
| SIS2007M | 美国文学史  | History Of American Literature | The course teaches the history of the formation and development of American literature. From the perspective of American history and culture, this course briefly introduces the literary and cultural trends, literary genres, and the social and political, economic and cultural backgrounds of American literature. It also elaborates the creative career of the main writers selected from American literary history and expounds the themes, style and aesthetic thoughts of their writings. The course is divided into sixteen lectures, respectively, from the colonial period to the post-World War II decades of American literature, to provide students with a more complete and clearer outline.   |

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| SIS2807M | 跨文化与国际合作    | Cross-Culture & International Cooperation                            | This course introduces students to two different knowledge and skills areas which overlap in practice but have not been research too deeply with respect to each other. This course will introduce students to (1) basics of intercultural communications theory; (2) intercultural factors involved in the emergence and design of international cooperation; (3) issues of intercultural communication in practical contexts of international cooperation . The international cooperation in this course is set to give explanation on practice and application of the concrete theory in the background of globalization and to help students gain better global understandings from the perspective of intercultural theory, and they get to make progress in the practice of international cooperation. In this way, students will be enabled to understand the basic framework of any given international cooperation, as well as to handle specific communication tasks with such framework. |
| SIS2808M | 国际组织外语能力拓展  | Foreign Language Competence Building For International Organizations | This course is designed mainly for the students with minors in Global Competence Program of Zhejiang University. On the basis of the students' professional foundation and language foundation, the course introduces students to international organizations and their typical communication situations and expands their ability in English learning, listening, speaking, reading, writing and translating in different themes, fields and places of international organizations, such as health, trade, security and law. In the process, students are expected to improve their language skills, expand their global vision, take the initiative to tell China's stories in English, serve international organizations, enhance the voice and discourse of Chinese in international organizations, and finally improve China's national image.   |
| SIS4207M | 德国文学理论      | German Literature Theories   | This course deals with the historical development, main frameworks and schools of the literary theories of German speaking countries, with emphasis on the intrinsic interpretation theories(neo-criticism), structuralism, narratology, receptional aesthetics, culturalism and the latest development of literary theories. Based on literary texts, this course expounds on the generation, transmission and reception of literatures in German speaking countries.  |
| SIS4303M | 法语学术写作与研究方法 | French Academic Writing And Research Methods                         | This course is aimed at grade four students, focusing on academic writing and Research methods. It includes the choice of topics, research methods, data collection and utilization, paper writing methods, paper writing norms and so on... We will help the students to master the basic research methods, writing skills and norms, write review and introduction.   |

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| MATH3703M | 渐近法与摄动理论          | Asymptotic Methods And Perturbation Theory              | <p>"Asymptotic Method and Perturbation Theory" describes the behavior of functions near some limits. It has been widely used in statistics, probability, computer science, engineering, physics, chemistry and other disciplines. When dimensionless small parameters appear in physics and other engineering science problems, this method can analyze the precise analytical structure of the solution in terms of using asymptotic expansions of those small parameters, it is quite effective in analyzing nonlinear equations. This course has 48 hours. We will mainly cover the following topics: asymptotic methods for linear ordinary differential equations, asymptotic methods for nonlinear ordinary differential equations, asymptotic methods for difference equations, asymptotic expansions of oscillatory integrals, perturbation method, series summation, boundary layer method, etc..</p>   |
| BME3020M  | 生物医学光学成像前沿导论      | Frontiers In Biomedical Optics                          | <p>This is an interdisciplinary course in optics and biomedical science. This course will introduce the use of optical engineering technologies to explore basic research in the field of life science. This course will also cover examples of technological advancements that address clinical needs in the field of biomedicine. The main contents include the essential concepts and properties of light, spectroscopy, and microscopy; optical microscopy and fluorescence imaging methods; molecular vibrational spectroscopy and imaging methods; basic imaging processing methods and their applications; frontiers in optical imaging technology and applications in biomedical science. In addition, the latest research in the biomedical optics field will be introduced by invited international experts, to help students familiarize themselves with this research field for future career consideration. The course is given in English.</p> |
| CAB1010M  | 植物-微生物的相互作用及可持续农业 | Plant-Microbes Interactions And Sustainable Agriculture | <p>The course covers the discussion and analysis of the basic and distinctive morphological and growth characteristics of bacteria, mycoplasma, fungi, actinomycetes, algae and viruses; the course is also focusing on the principles and techniques in metabolism, biochemistry and genetics of microbes in relation with plants and crops. Students will be exposed to various molecular methods and equipment as well as aseptic techniques. Students are expected to develop knowledge of the role of micro-organisms across many areas; acquire the practical skills required in research and industry to become a skilled and highly adaptable employee, capable of working in a wide variety of settings, whether in industrial, research or government organizations.</p>   |

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| CAB2012M | 农业化学生物学专论 | Special Topics On Agro-Chemical Biology | <p>The " Special Topics on Agro-Chemical Biology" is prepared for undergraduate students majoring in agricultural science, environmental science, biological science, medicine and other related majors. It mainly focuses on the research methods of toxicology and pest resistance monitoring. Given an in-depth overview of the agricultural chemical biology, sustainable development, the ecological environment effect of agricultural chemicals. Students are expected to master the pest management strategy of eco-friendly and green ecology and set up the correct concept of ecological civilization development, have a clear critical and innovative thinking and initiative. To lay a solid foundation for in-depth study of relevant professional knowledge and skills and to promote international exchanges and internationalization of undergraduate teaching.</p>   |
| CAB3011M | 基因操作原理    | Principle For Gene Manipulation         | <p>The Principle for Gene Manipulation is a frontier subject that studies the essence of life at the gene level. It is intended to introduce gene cloning and recombinant DNA technology to students. Topics will generally include subjects such as introduction to basic ideas for analyses of gene functions; why gene manipulation is important; vehicles: plasmids and bacteriophages; purification of DNA from living cells; manipulation of purified DNA; introduction of DNA into living cells; cloning vector; how to obtain a clone of a specific gene; the polymerase chain reaction; studying gene and genome structure; studying gene expression; protein expression; protein interactions; protein-DNA / RNA interactions; genetics and epigenetics; introduction to biological big data; plant functional genomics approaches &amp; genetic transformation; RNA silencing and its application in crop genetic improvement; targeted genome editing: from ZFN, TALEN to CRISPR/Cas9; viral vector for gene expression and gene silencing. The students will be invited to introduce new techniques on gene manipulation and then discuss on how to use these techniques in future research. Students are expected to significantly improve their knowledge on Principle for Gene Manipulation and ability for using gene manipulation techniques in their research.</p> |

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| 59120230  | 异性催化与可持续发展   | Heterogeneous catalysis and sustainable development | <p>In recent years, researches in the disciplines of power engineering and engineering thermophysics have more and more involved the environment, chemistry, materials and other disciplines. Graduate students need to use interdisciplinary knowledge when conducting research, especially in energy and environmental sciences. Research students need more knowledge about the environment and chemistry. Catalysis and sustainable catalytic materials have become necessary for future energy clean conversion and utilization related research institutes. Undergraduate education in the new era of energy disciplines should also be combined with current energy development trends and frontiers, and contact and learn more at the undergraduate level. Regarding catalytic science and its cross-cutting knowledge with sustainable chemistry and engineering, this course not only provides an in-depth explanation on the principles of catalysis, but also combines catalysts in the fields of environmental pollution repair, biomass energy quality improvement, CO<sub>2</sub> conversion and utilization, etc. The practical application examples are vividly illustrated to further deepen students' understanding of the basic concepts of catalysis.</p> |
| ENER3226M | 高分子复合材料与能源装备 | Polymer Composites for Energy Equipment             | <p>This class is part of the energy engineering of BS engineering in Zhejiang University and it's all about introducing an important group of materials called polymers. In this course, we'll learn the basics about how polymers are built, what they look like, and what they can do. This course will help students discover different ways to study and describe polymers in different fields of process equipment for energy storage.</p>   |
| MED3318M  | 脑疾病的神经生物学    | Neurobiology of Brain Disorders                     | <p>The aim of the course is to provide students with the most cutting-edge knowledge and research technology, most-pressing unsolved problems, and future research direction. The course should motivate students to devote their career in neuroscience and brain disorder research. Topics examined include: neurodevelopmental disorders including autism and learning disabilities; neuropsychiatric disorders and underlying genetics; neurodegenerative diseases and disorders such as Parkinson's, Alzheimer's, and dementia; stroke; epilepsy; brain-machine interfaces. Emphasis on underlying mechanisms and techniques by which mechanisms are studied. Diagnostic criteria, clinical and pathological findings, genetics, model systems, pathophysiology, and treatment are discussed for individual disorders and diseases. In addition, current and future directions of treatment development will be discussed for some disorders.</p>  |

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| CSE0401G  | 现代仿生科学和工程导论 | Introduction to Modern Bionics    | The biological systems become perfect along with the evolution of billions of years. Mimicking the nature, we may find out many methods to solve the problems blocking the development of current science and technology. In this course, the principles of the biological inspired mechanics, chemistry and neurology will be introduced. Some typical cases will be analyzed and discussed, including artificial limbs and organs, robots, brain-computer interface and the algorithms for artificial sensing systems and the artificial neural networks. The innovation potential of students will be developed.  |
| 01196770  | 宏观经济与政策分析   | Macroeconomic and Policy Analyses | The course is structured around the four primary measures of the aggregate economic performance: Gross Domestic Product (GDP), unemployment rate, income distribution, and inflation. We will discuss both the theoretical and empirical aspects of the definition and the evolution of these concepts in the short run and in the long run. We highlight the role of the government in improving economic equity, efficiency, and stability.  |
| ECON2024M | 中级微观经济学     | Intermediate Microeconomics       | This course is an upgraded version of microeconomics and focuses on intermediate microeconomics theory and analytical methods, including budget constraints, preferences and utility, choice and demand, firms supply, market and equilibrium, competition and monopoly, exchange and production, and many other areas. Intermediate microeconomics is a logical and rigorous course in microeconomics. The course covers two core topics: (1) individual decision making with a particular focus on consumers and producers, and (2) The foundation on markets and the outcomes of interaction between individuals in markets. The course is also a continuation study of the micro foundations of economic modeling and thinking. It provides analytical tools for applications in labor economics, industrial organization, international economics, micro-founded macroeconomics, public economics, etc. |
| ECON2025M | 宏观经济与政策分析   | Macroeconomic And Policy Analyses | The course is structured around the four primary measures of the aggregate economic performance: Gross Domestic Product (GDP), unemployment rate, income distribution, and inflation. We will discuss both the theoretical and empirical aspects of the definition and the evolution of these concepts in the short run and in the long run. We highlight the role of the government in improving economic equity, efficiency, and stability.  |

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| ECON3014M | 规制经济学 | Regulation Economics   | <p>The purpose of this course is to introduce the role of governments in the market failures to the students. The course will focus on industry structures and firm behavior, including the strategic interactions between firms. We first review firm behavior in various market settings, and discuss market efficiency, perfectly competitive market, market structure, strategic competition, and production efficiency. We then investigate the economics of regulation, that is, the behavior of a natural monopoly and various tools to regulate a natural monopoly. Finally, we examine social regulations, with focuses on the environment, health, and safety. This course is taught in English and all the references are in English.</p>  |
| ECON3021M | 国际税收  | International Taxation | <p>International taxation is the study of tax on a person or business subject to the tax laws of different countries or the international aspects of an individual country's tax laws. The scope of international taxation encompasses all tax issues arising under a country's income tax laws that include some foreign element. A country must confront these issues when designing its international tax rules and coordinate those rules with its trading partners' tax systems. In this course, we focus on general principles and fundamental structure. Our main topics include jurisdiction to tax, double taxation relief, transfer pricing, anti-avoidance measures, tax treaties, and emerging issue with BEPS. Meanwhile, this course will provide an opportunity to understand the key concepts in the class through business case studies and law case briefings. Students are expected to understand significant issues and practices of income taxes regarding international business, as well as the importance of international taxation to individuals, companies, and governments.</p> |

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| ECON3041M | 市场摩擦理论     | Markets With Frictions                                      | <p>This is a course on Markets with Frictions. It covers a variety of important and interesting topics in economics, finance and related fields in a relatively rigorous manner. Although the goal is to challenge and stimulate participants not with tools but with ideas, algebra, calculus and some statistics are used to convey insights. The class explains some modern theories that go beyond classical analysis in economics and finance. This allows us to discuss new issues, and to look at old issues in new ways. Before getting into the modern theories of frictional markets, however, it helps to have a foundation in mainstream economics. So the first order of business is to review the rudimentary theory of frictionless competitive markets. This approach is powerful and helps us understand much about the world, but it is silent on some other matters. To pick one such matter, the coexistence of unemployment and vacancies is hard to interpret using standard supply and demand curves. The same can be said for people looking for apartments while some units go vacant, entrepreneurs lacking funds while capitalists have uninvested resources, and so on. These phenomena are best understood by introducing frictions. We also cover credit market rationing, bubbles and crashes in asset prices, and the role of money and banking in the inter-temporal allocation of resources.</p> |
| EDU3020M  | 智能教育的理论与实践 | Theory And Practice Of Artificial Intelligence In Education | <p>This course mainly introduces the theory and practice in the field of Artificial Intelligence in education (AIED) at home and abroad. The specific contents include seven parts: concept and theoretical foundation of AIED, intelligent educational environment, intelligent learning process support, intelligent educational assessment, intelligent teacher's assistant, intelligent educational management, and research frontier of AIED. Through instructor's introduction about the seven modules related to AIED and organization of students' Project-based learning (PBL) activities, the course may promote students' understanding about key concepts and important educational practice of AIED. At the same time, students could develop a certain degree of ability to carry out AIED practice. Students may renew their educational concept, and learn to use theory and practice of AIED to guide their own learning and development.</p>   |

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| EDU3045M  | 运动技能学习与控制  | Motor Learning And Control                   | This course, “Motor Learning and Control“, provides an introductory study of motor learning and control for students who aspire to become practitioners in exercise science, physical education, and other movement-oriented professions. The course opens with an introduction to motor skills and control, continues through attention, memory, and learning, and ends with a discussion of instruction, feedback, and practice methods. Rely on strong research base, clear presentation and practical applications, the courses will help students build a solid foundation in motor skills and prepare them for further exploration on their own.   |
| EDU4003M  | 国际组织教育政策研究 | Understanding International Education Policy | This specialized course is offered to the senior education majors who have already laid a solid basis in the field of education and who want to further broaden their global horizons on the major educational decisions made by the world community.  |
| CCEA3765M | 工程设计       | Engineering Design                           | Engineering Design is an innovative course for third-year undergraduates majoring in civil or structural engineering. It introduces the fundamentals of structural systems and design, following the theme “From Understanding to Preliminary Design.” The course integrates AI-assisted problem-based learning, flipped classrooms, and peer assessment to foster reflective and personalized learning. Students will engage in modeling, tower construction, and failure analysis to “learn by doing and grow through mistakes.” The course emphasizes ethical practice and sustainable design while strengthening analytical skills, English communication, and global perspective—making it a core component of internationalized engineering education.   |
| CCEA4111M | 绿色建筑       | Green Building                               | This is a professional course targeting undergraduate students majoring in civil engineering and architecture and other majors. It covers four main parts as follows:<br>(1) urban climate and built environment;<br>(2) green building technology including building energy saving technology, building indoor environment control technology, land-use saving and outdoor environment technology, water resource utilization and water saving technology, green building material, operation and management technology, green building technology integrated application, etc;<br>(3) the comparison of green building evaluation standards home and abroad;<br>(4) green building case studies at home and abroad and on site visiting. Combinations of lectures, discussions, experiment, and on-site visiting will be adopted in this course. |

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| CCEA4604M | 城乡规划专题化设计                 | Specialized Urban And Rural Planning Design  | <p>Specialized Urban And Rural Planning Design is a concentrated embodiment of the core teaching philosophy of "internationalization and interdisciplinary" in this major. The courses are taught by professors introduced from this major and abroad according to their respective research directions, and parallel classes are offered. Students choose according to their interests, and each parallel class controls 6-12 people. The curriculum encourages the integration of cutting-edge disciplines; Encourage cross disciplinary integration with external disciplines; And actively cooperate with foreign universities, invite them in and out, introduce international resources, and actively connect with the forefront of international disciplines; At the same time, students are encouraged in this course to actively participate in various international and domestic student competitions based on their interests, to test their own level and expand the influence of the subject. Topic 1: Research on Urban and Rural Planning Methods and Creation; Topic 2: Research on Urban Planning Theory and Methods; Topic 3: Research on the Protection and Renewal of Historical Environment; Topic Four: Research on Architectural Space and Acoustic Design; Topic 5: Research on Urban Landscape and Spatial Design; Topic 6: Theoretical and methodological research on contemporary urban design.</p>                   |
| CS2294M   | 人工智能：大规模数据分析与机器学习模型中的算法优化 | Artificial Intelligence: Large-Scale Data Analysis and Algorithm Optimization in Machine Learning Models | <p>Machine learning involves the utilization of highly intricate algorithms and techniques to imbue non-living entities, machines, or systems with human-like behaviors. Machine learning finds numerous applications in daily life. For instance, robots enhance navigation services by leveraging experiential data from their surroundings, robots predict the most effective treatment for a particular ailment based on a patient's historical health records, and speech recognition systems employ past interactions to better comprehend and interpret spoken instructions. Machine learning is a prominent and dynamic research domain within the fields of computer science and signal information. With the rapid advancement of technologies like the Internet and the Internet of Things (IoT), machine learning has emerged as a pivotal and essential technology in various sectors, including data mining, big data analysis, videototechnology, audio technology, and intelligent robotics. This course imparts 8 foundational theories, prevalent concepts, and methodologies in machine learning and data analysis. Its objective is to provide a comprehensive understanding of the methods, techniques, mathematics, and algorithms required for researchers engaged in machine learning and related disciplines. This knowledge forms the basis for technical development and scientific research in pertinent domains.</p> |

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| CS3216M | 智能视觉信息采集 | Intelligent Acquisition Of Visual Information | <p>High-quality, efficient acquisition of visual information is a critical component of many modern systems. It has wide applications in fields ranging from smart phones, autonomous driving vehicles, industrial robots to medical imaging. This course emphasizes on both theories and practices. It will introduce the key challenges, core ideas and related techniques in the design and implementation of intelligent visual capture systems, to junior and senior undergraduate students in computer science, artificial intelligence and related majors. This course will cover topics related to the latest development of intelligent visual measurement systems. It is highly interdisciplinary, relating multiple fields including artificial intelligence, digital circuit design, optics, computer graphics and vision. The course focuses strongly on the cultivation of hands-on system-building experience. By setting up multiple experiments as well as the course project, we encourage the students to creatively apply the theories they learn from the classes to the practices of building intelligent acquisition systems of visual information.</p> |
| CS4239M | 整合创新设计   | Integrated And Innovative Design              | <p>This course is related to a method of integrated innovation design in new product development. The main contents are as follows: 1. Qualitative and quantitative research on product design; 2. Analytical user demand, identification new product opportunity; 3. Conceptual design of new product development and early-stage technological proposal; 4. Effective Learning Type Group Cooperation, reference and absorption of the Interdisciplinary knowledge in new design. Objective of Creating Breakthrough products, Practice of the contents such as conceptual product design, interact design, service design, and application prototype design.</p>  |

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| MED2034M | 系统解剖学         | Systematic Anatomy                                  | <p>Systematic Anatomy is the science that explains the normal morphology and structure of organs according to various human body systems. It is a fundamental core course in medical education. This course also serves as the foundation for studying other basic medical and clinical medicine courses. Only by mastering the normal morphology and structure of the organs of various human body systems can medical students correctly understand the physiological and pathological development processes, accurately judge the normal and abnormal states of human structures, and thus correctly diagnose and treat diseases. As the first professional foundational course for medical students, this course uses the "silent mentor" and clinical cases as core carriers. It incorporates themes of humanistic and ideological education such as "traditional medical history," "patriotic alumni around us," "special misdiagnosis cases," and "scientific innovation achievements." Through these themes, students can feel the life warmth and human greatness of the "silent mentor," inspiring their learning motivation and cultivating excellent medical talents with patriotism, a global perspective, benevolence, and innovative spirit.</p> |
| 58190080 | 移动机器人与机电一体化专题 | SELECTED TOPICS IN MOBILE ROBOTICS AND MECHATRONICS | <p>This course is for undergraduate students of Zhejiang University. It includes two parts: (1) Mobile robot, which mainly focuses on kinematics (wheeled robots in 2D planar environment) and localization methods (dead reckoning, range-bearing, sensor fusion) as well as the introduction to state space and elements of Kalman filtering, and (2) Mechatronics, which mainly focuses on basic principles of multi-domain modeling and simulation using multi-port models and multi-physics modeling tools, including Numerical integration of ODE-systems (algorithms, stability); Multi-port modeling – Kirchhoff networks; Differential algebraic equation (DAE) systems; Numerical integration of DAE-systems; Object-oriented physical modeling; Multi-physics modeling with Modelica. This course will have advanced introduction of mobile robot, system modeling and basic implementations of self-written numerical integration algorithms using Matlab, and will result in deeper understanding of strengths and weaknesses of built-in ODE/DAE solvers in commercial simulation tools.</p>  |

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| ME4448M   | 工程经济学  | Engineering Economy        | <p>This course consists of 2 hours as one unit, 12 teaching units, 2 case discussion units and 2 course project oral presentation units, a total of 16 units and 32 hours. Engineering economics is a basic course for various engineering students. Through the introduction and discussion of the concept of economics, the use of engineering economic analysis and calculation, qualitative and quantitative analysis of the economic problems involved in engineering practice. Understanding of basic concepts such as cost structure, estimation, revenue analysis, project cash flow, etc., is instructive for engineering/project management and decision making. Course contains the theme of the role of engineering economics in engineering application, the basic principle of economic equivalence, the time value of money, single and multiple project evaluation, capital recovery and tax, inflation, cost estimation, breakeven, decision making under uncertainty, risk analysis, investment in financial markets, the basic accounting theory, etc.</p>                  |
| ENVR2110M | 环境生物化学 | Environmental Biochemistry | <p>This course includes three parts: a) introduction of basic knowledge of macromolecules such as carbohydrates, lipids, proteins, nucleic acid, vitamins etc. b) introduction of the common metabolic pathways of macromolecules and their relationship. This part will focus on carbohydrates, lipids and proteins. c) basic biochemistry principles in the applied environmental biotech such as microbial bioremediations, environmental toxicology.</p>   |
| ENVR3104M | 全球气候变化 | Global Climate Change      | <p>Global climate change, in its broad term, refers to the biophysical and socioeconomic changes that are and has always been altering the function of the climate system on a global scale. In the simplest form, it focuses on the unprecedented warming over the past one and half centuries; and is one of the biggest challenges human society is facing. The objective of this course is to explore the various changes and the driving forces from multiple perspectives. Emphasis will be given to developing objective and holistic view of how human-environment system has been transformed during the course of human history, factors that causing them, and responses and actions to these changes. The course will draw from a mixture of lectures, in-class discussions, and student-lead case studies. To make the process work, attendance and active participation are required. The themes and the reading materials are outlined in the course schedule (below), additional readings may be added during the course and will be announced at least a week in advance.</p> |

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| CHEM2001F | 物理化学        | Physical Chemistry                           | Physical Chemistry contains thermodynamics and kinetics as the main content, which is concerning the definitions, basic principles, methods, and rules of thermodynamics, reaction theories, and catalysis of kinetics, interface phenomena, and electrochemistry. The object of this course is to enhance the research interest of students, and cultivate the overall idea of physical chemistry for dealing with the chemical problems in their future career lives.  |
| AA2012M   | 模糊控制和人工神经网络 | Fuzzy Control And Artificial Neural Networks | Experts in different branches try to approach their application-specific control and information processing problems by using fuzzy logic and artificial neural networks (ANN). The experiences gathered up to now prove aircraft, robotics and automation technology to be predestined fields of application of both these approaches. The major topics of the course are control problems in aircraft, robotics and automation technology, principles of fuzzy logic and ANN and their practical applications, comparison of conventional and advanced control methods, combination of fuzzy logic and ANN in control systems. |
| AA3047M   | 颗粒动力学基础     | Fundamentals of Particle Dynamics            | Powders and grains are ubiquitous in industry and geophysics. As planetary regolith they make up most of the condensed universe. As soils they grow our plants. As powders they become food or medicines. As ores, they are processed into metals. Despite their importance in industry, they are seldom part of a university curriculum. This course provides brief introductions to the richness of their complex behavior, briefly digressing into subjects as diverse as powder flow, particle impact, dilatancy, mixing, capillarity, permeability, drying, and experimental methods.                                       |
| LAW3006M  | 比较企业法       | Comparative Business Organizations           | This course mainly explains in detail the business legal systems in China and the U.S., including the partnership law and the corporate law, and compares them. The course also combines the cutting-edge topics in practice with it. Based on the comparison of rules between Chinese and foreign countries, we will impart the most important legal knowledge and market trends both in English and Chinese. The content of the course mainly focuses on the three modules--partnerships, corporate governance and mergers and acquisitions.   |

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| OPT3036M | Introduction to Optics | Introduction to Optics                    | <p>This course combines knowledge, inspiration, applicability, and fun. Optics, the science of light, is essential for understanding how we observe and interact with the world. The basic principles of lens design and controlling light are necessary for understanding anything from a modern phone to a particle accelerator. This course is divided into 2 parts. In the first part we will address two fundamental questions at an introductory level: 1) In what ways does light behave as a wave, a particle, or both? 2) How can we manipulate light to get information out of it? This course will use some MIT open courseware from Optics 2.71. In the second part, we will introduce selected topics at the frontier of modern optics, including spectroscopy and microscopy, optical materials and so on. This course will be taught in English with a focus on new progresses in optical engineering made in modern China.</p>   |
| OPT3058M | 硅光子学：技术与器件             | Silicon Photonics: Technology And Devices | <p>Course Rationale: The rapid advancement in communications, particularly optical fibers (2009 Nobel Prize), has established photonics as a vital enabling technology with applications in biosensing, lighting, and power supply. Silicon photonics has re-emerged as a focal point, especially in integrating photonic chips with silicon-based electronic circuits. However, challenges like silicon-based light sources persist. This course introduces silicon photonics technology and integrated photonic devices over eight chapters (24 class hours total). Students will master basic silicon photonics theories, explore cutting-edge research, develop a global perspective, and enhance English communication skills. Objectives: The course covers silicon photonic technology and devices comprehensively, including waveguides, active devices, and plasmonics technology. It balances theory and application, deepening understanding of silicon photonics and current industry trends. Requirements: Designed for senior undergraduates and graduate students seeking to advance in photonics and silicon photonics. The content is crucial for the future of integrated photonics. The course expands knowledge, introduces frontier science, cultivates international perspective, and emphasizes classroom interaction and English communication skills. Students must submit a course report, which, along with exam results, determines the final grade.</p> |

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| MGMT1001F | 管理学    | Fundamentals of Management     | <p>Management is a dynamic discipline as today's managers confront the world that is changing. The dynamic nature of organizations and environments provide both rewards and challenges for individuals who will manage these organizations. This course is designed to provide students with the best possible understanding of what it means to be a manager confronting these changes through a variety of readings, case studies, and research projects. The course also highlights integrative important aspects of modern management that include globalization, diversity, ethics, customer service, innovation, information technology, and leadership. By the end of this course, students should be able to understand not only management theories and concepts, but also how to blend these theories with contemporary management issues and practices. "Do you want to succeed in your career? Do you want to have a happy life?" If so, come and learn something about management!</p> |
| MGMT2001M | 管理信息系统 | Management Information Systems | <p>Information technology (IT) is transforming organizations and markets, affecting general and functional management, and spawning new businesses and industries. This course introduces the key concepts, frameworks, technologies, and applications of information systems (IS). It focuses on the strategic value of IS to enterprises, the enabling role of IS in organizational changes and management innovation, and the design and implementation methods of IS. After this course, students should understand the fundamental theories and methods of IS, be able to describe issues related to the development of IS, and analyze cases on IT-based business solutions for real-world problems. Most importantly, students should be able to understand why and how IT dramatically changes today's business and economy and know how companies respond to such changes.</p>  |

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| MGMT2014M | 战略管理       | Strategic Management                                | <p>As a core course for Bachelor of Business Administration, Strategic Management is fundamental for students to learn competition theory, competition ideology and competition skills. The course covers basic concepts of strategic management, classic ideology of strategic management, strategic environment analysis, strategic resources analysis, operational strategy, business strategy, business portfolio strategy, strategy execution management, developments in research on strategic management, and various strategic analysis tools. Strategic Management is one of disciplines that have developed quickly in recent years; therefore, the course should be updated properly according to the development of the discipline. This course aims to provide students with the ability to identify and analyze strategic issues and suggest solutions, develop a strategic vision, make simple strategic planning, discover elements of strategy execution and manage strategy execution.</p> |
| MGMT3037M | 消费者信息处理与决策 | Consumer Information Processing And Decision Making | <p>Information processing is a key construct in consumer behavior; an understanding of this will develop a stronger brand awareness and more effective brand communications. It relates to the process by which communications are received, interpreted, stored in memory, and later retrieved by the consumer. This course provides an in-depth analysis of information processing theories and methodologies as they relate to consumer judgment and choice. We will review an assortment of topics related to visual processing, consumer memory, inference, judgment, and decision making.</p>  |
| PA2036M   | 中级微观经济学    | Intermediate Microeconomics                         | <p>The main aim of this course is to provide a further understanding of Microeconomics. The course surveys the field of microeconomics at the intermediate level and aims to introduce the basic tools of economics and to apply them to a wide range of human behavior. It will cover the core concepts of consumer and producer behavior, market equilibrium and welfare analysis as well as imperfect competition and imperfect markets. Topics include the theory of the consumer, the theory of the firm, uncertainty decisions, perfect competition, monopoly and monopsony, oligopoly, externalities and public goods, markets with asymmetric information. Prerequisites include an economic principles course and an introductory calculus course.</p>  |

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| PA2096M | 全球发展与国际援助 | Global Development and Overseas Aid | <p>Overseas aid is a particularly important topic for the global development studies. Interest in it has heightened in recent years, with donor countries pledging to provide substantially larger amounts of aid in the coming years. The aim of the course is to introduce students to key concepts, issues and debates relating to country level aid effectiveness and allocation. It also aims to introduce students to the political, economic and moral rationales of why international donors provide foreign aid. The following topics are addressed:- Aid definition, concepts and volumes;- Why is aid given;- Aid allocation and selectivity;- Key actors: official donors and NGOs;- Aid and policy coherence for development.</p>   |
| PA3048M | 土地与国家治理   | Land Policy and State Governance    | <p>Land as one of the means of production, plays a critical role in state governance and development processes all over the world, and China is no exception. It provides space for agriculture, mining, industries, housing, infrastructure and all other human activities in urban and rural society. In this context, the course aims to provide students with a good and solid understanding of the reasons what role land plays in processes of urbanization, industrialization and globalization. The course provides a thorough overview of the various theories and concepts on land policies, property rights and institutions, while illustrating these with typical and remarkable case-studies. The course is structured in three parts: 1) urban land policy; 2) rural land policy; and 3) peri-urban land policy.</p>  |
| PA3123M | 土地问题与粮食安全 | Land Conflict and Food Security     | <p>Land conflict is one of the major causes of food insecurity in the world, particularly in developing countries. Many studies reveal that conflict is the key driver of food crisis in the world and countries which are experiencing prolonged conflicts have the long-term hunger situations. The effects of these conflicts contribute to disrupting production, which will lead to displacement and loss of lives at the end. Food security exists when all people, always, have physical and economic access to sufficient, safe, and nutritious food that meets their dietary needs and food preferences for an active and healthy life. Creating an environment conducive to agricultural growth and food security hinges upon prioritization of securing land and property rights of smallholders, investors, and other resource users. Efforts to secure land and property rights in an effective and inclusive manner must rely on multi-stakeholder partnerships between government, private sector, and civil society actors, and must operate at all levels, from the local to the global. Therefore, this course will focus on identifying the relationship between land conflicts and food security and why land conflicts contribute to food insecurity.</p> |

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| PA3312M | 复杂系统思维与基于主体建模    | Complex system thinking and agent-based modelling            | <p>This course provides a systematic introduction to complex systems thinking and related models, helping students in agricultural economics and other social science disciplines to broaden their perspectives and master cutting-edge simulation techniques. This course introduces participants to the Agent-Based Modelling (ABM) paradigm, an approach widely used for simulating complex systems, particularly in agricultural and resource economics. The course is structured into theoretical and practical sessions, providing a comprehensive foundation in ABM concepts and applications. Participants will gain a thorough understanding of: The fundamental principles of Agent-Based Modelling and its applications. When and why ABMs are used in research and decision-making. Key concepts of ABM and the mechanics of model development. Essential considerations in formulating an ABM for complex system analysis. Through hands-on exercises, participants will: Learn to implement and analyse ABMs using the NetLogo framework. Develop an agent-based model alone or in a group. Explore fundamental simulation techniques. Extend or develop an model to address a self-selected research question. Interpret and evaluate simulation results to derive meaningful insights. By the end of the course, participants will have acquired the skills necessary for independent study and further exploration in ABM, supported by recommended references.</p> |
| PA3314M | 复杂系统研究--制度、经济与环境 | Institutions, Economics and Environment for the Anthropocene | <p>The course is about institutions, economics and environment in the current epoch of the Anthropocene. It will explain how to rethink human values, institutions, economics and the environment in an epoch which is characterized by increasing resource use, populations, environmental pressures, interconnectedness and complexity. In that new historical context humans on earth are facing their greatest challenges and existential threats from how they have transformed nature, but also opportunities for renewal and stewardship of spaceship earth, recognizing the vulnerability of human and non-human life. In that new historical context, the challenge is to scale up social complexity and enhance collective intelligence by transforming the emerging values into institutions, and governance for the collective public good of planetary health.</p>  |

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| EE3692M | 人工智能与安全       | Trustworthy Machine Learning        | This course is a degree program for undergraduate students of Zhejiang University. It includes four parts: a) Security model of Artificial Intelligence (AI): the threat model for AI, the working pipeline of AI, vulnerability analysis of AI. b) AI security attacks and defenses: evasion attacks and defenses, backdoor attacks and defenses. c) AI privacy attacks and defenses: privacy attacks and defenses for training data and the trained model. The methods of discussion and case study will be used in this course.  |
| EE4462M | 电力系统运行与控制     | Power System Operation and Control  | Power system operation and control is an important basic course of electrical engineering. Course content includes the generator running basic characteristics, the mathematical model of power system economic operation and algorithm, model and algorithm of electric power system, model of power system state estimation, data identification, parameter identification, the least square method, optimal power flow model, the interior-point method, gradient method and other professional knowledge, and power professional knowledge such as vocabulary, reading and writing. |
| EE4561M | 电动汽车和混合动力汽车系统 | Electric and Hybrid Vehicles system | This course mainly introduces the structure and operating principles of electric, hybrid, and plug-in hybrid vehicles; Technologies and evaluations related to electric, hybrid, and plug-in hybrid vehicles; And the working principles and technical characteristics of energy storage, battery charger technology, and vehicle to grid (V2G) systems developed based on electric, hybrid, and plug-in hybrid vehicles.   |

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| MIC2100M | 媒介与全球化 | Media And Globalization     | <p>This is a course focused on analyzing the relationship between multidimensional globalization, communication and social change. The analysis will highlight the economic, social, cultural, and political implications of globalization, and the specific influence of communication in the various dimensions of globalization. The approach will be comparative, and multicultural, and this will be reflected in the reading materials and in the lectures. This course seeks to cover the landscape in contemporary theorizing and research on cultural globalization. It is organized broadly around three partially competing/partially complementary theories of globalization – homogenization, enduring differences, and hybridization. We will attempt to bring each of these theories to life with case studies of the production, distribution, and reception of cultural forms and experiences from across the globe. Our focus will be first and foremost empirical, that is, oriented to describing and understanding as fully as possible what is happening and why. But we will also address at various times normative issues, that is, what should be done. Connections to the dynamically changing media environment today will be accompanied by an approach that considers that environment in respect of culture and cultural production from the broad perspectives of time and space. What, for example, does the ‘compression’ of time and space mean? And what does this concept mean in the real-world contexts of being a consumer of media? What, indeed, is culture, and how is it transformed through networked digital media? Such insights into new relationships with time and space will strengthen and extend students’ understanding of culture-making in the global media environment today.</p> |
| MSE3304M | 材料热力学  | Thermodynamics of Materials | <p>The theory of Thermodynamics of Materials is the fundamental specialized knowledge of materials science and engineering, and it also serves as broad foundational knowledge for other science and engineering specialties such as Chemistry, Chemical Engineering, and Energy Engineering. The main contents of this course include: the theory of solution and its applications; the correlation of the Gibbs free energy and the thermodynamic properties of the components of a system; the principle of the establishment of the binary phase diagram, the specification of simple phase diagrams by thermodynamic calculation, and the understanding of complex phase diagrams; the principles of reaction equilibrium and the reaction equilibrium constant of systems involving gases, containing components in condensed solution, and their application; the definition of alternative standard states and the selection and application of standard states in multiphase complex reactions; the introduction of the updated database of thermodynamics and its application; and the introduction of typical examples for the applications of the theories and principles of thermodynamics of materials in the investigation of new materials. The textbook of the course is in English, with its main contents</p>   |

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| MSE3323M      | 磁学基础和先进磁性纳米材料 | Magnetism And Advanced Magnetic Nanomaterials | <p>The main contents include:<br/> Introduction to magnetism (origin of magnetisms and categorization, important parameters of magnetism, emerging magnetic materials...);<br/> Introduction to nanomagnetism (intrinsic properties of finite-size effects, magnetization measurements of nanomagnetism, classical and quantum magnetization reversal...);<br/> Advanced magnetic nanomaterials (classification and characterization of magnetic nanomaterials, magnetism in ultrathin films and beyond, nanometer particles and clusters, fabrication and modeling of magnetic nanomaterials...);<br/> Case study (nanocrystalline soft magnetic materials, nanostructured exchange-coupled hard magnetic materials, Mössbauer spectrometry:</p>  |
| COMMMGT B1001 |               | Communications Studies 1                      | <p>This course aims to introduce basic theories applicable to communication phenomena and problems related to different aspects of our daily life. We are primarily focusing on major communication theories and the development of China's communication industry. The main goal of the course Communication I is to help students understand different research traditions in communication studies and various communication phenomena in contemporary China.</p>   |
| COMMMGT B1005 |               | Global Communication                          | <p>The Internet has prompted fresh thinking about the social implications of technological changes. This course will explore a variety of theoretical issues and debates in communication, technology and global society. What kind of communications revolution does it herald and what are the conceptual tools we need to understand it? These are the central questions addressed by the course. It examines how the interaction of technological and global communication processes help to explain power in the global society. It explores dynamic ways of information communication technology in relation to both governments and markets as well as the detailed ways in which it links them. It examines how technology is central to an historical understanding of globalization. It assesses the complexities of cultural exchanges in contemporary media and technical services and technical characteristics worldwide. It will link these questions above with media and global communication practices. New forms of sociability, participation and commerce enabled by the production and consumption of global media will be investigated via relevant case studies.</p> |

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| COMMMGT B1009 |  | Social Media marketing   | Social media are the online means of communication, conveyance, collaboration, and cultivation among networks of people, communities, and organisations. Thus, social media marketing is the utilization of such technologies to create, communicate, deliver, and exchange offerings that have value for consumers. This course aims to provide you with an understanding of social media marketing in terms of contemporary online technology, theoretical, conceptual and practical applications, and develop skills applicable to managing social consumer and a wide-ranging analysis of the issues involved in social media marketing   |
| ECON B1002    |  | Macroeconomics           | Macroeconomics studies the behaviour of the aggregate economy. This first part of the course introduces focuses mostly on analysis of the macroeconomy in the long run. The first part gives a brief introduction to macroeconomics and various data used by macroeconomists. The second part describes the behaviour of the economy in the long run and introduces fundamental concepts of economic growth, via the Solow growth model. The third part of the course introduces the natural (long run) rate of unemployment and presents facts about unemployment in developed countries. The fourth part focuses on money and the monetary system, as well as on theories of money and inflation in the medium and long run. The course then introduces economic fluctuations and provides an overview of recent large macroeconomic shocks, i.e., the Great Recession and the COVID-19 shock. The course closes with a short discussion of Macro-finance, such as financial accelerator and credit cycles. |
| ENG B1001     |  | Academic English Writing | The course aims at building writing skills with critical readings and approaches to writing so as to get ready for academic writing in English. Reading materials in this course focus on developing vocabulary, paragraph and structure as well as study skills. Writing exercises review each part of academic writing and focus on essay construction.   |
| F B1002       |  | Introduction to Fintech  | This course provides basic concepts on the most relevant aspects of Financial Technology that are required to live our modern everyday life. We will look at the history of money and how finance and related services have evolved, and what are the driving force behind it. We will also look at specific Fintech topics in more details. These topics include mobile payment technology such as Credit card, Alipay, Wechat pay, blockchain, Bitcoin, Digital RMB, Global Trade, Digital Trade, Cross-boarder e-commerce, and future trend of Fintech   |

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| GCM-FB1004    |  | Fundamental Accounting Principles      | The Basic Accounting course introduces students to financial reporting and financial management concepts and practices. The primary focus of this course is the preparation, use, and analysis of general purpose financial statements in support of the capital market decision-making process. In addition, certain financial accounts concepts related to assets and liabilities will be covered.  |
| COMMMGT B1003 |  | Intercultural Communication            | This course will demonstrate how foreign banks, corporations and entrepreneurs adjust their management mode when penetrating the China market. Via theory and practical case studies, the student will come to understand Chinese business as well as basic cultural and societal differences in business between the East and the West. The course will use abundant examples from the foreign banking industry in China.  |
| MGT B1001     |  | Fundamentals of Management             | This course aims to provide a platform for understanding the managerial role and the world of business. It explores the management environment, key environmental drivers and functions of managers and organizations, providing an up-to-date view of current issues faced by managers and every contemporary enterprise. There is also consideration of how organizations are managed in response to environmental drivers. To address this aspect, this course introduces key theoretical principles in lectures, facilitate fundamental study skills, teamwork and the practical application of theory. The general management concepts introduced in lectures are applied through the assignments.                           |
| MGT B1017     |  | Organizational Behavior and Leadership | This course is designed to introduce you to the theories and phenomena in organizational behavior. It covers a wide range of organizational behavior topics spanning individual, group and organizational characteristics that influence individual psychological mechanisms, and ultimately influence employee job performance and organizational commitment. Topics include employee ability (individual characteristic), team diversity and leadership style (group characteristic), organizational culture (organizational characteristic), job motivation and learning (individual psychological mechanism). Students may refer to the course schedule below for a more comprehensive list of topics covered in this module. |

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| MATH B1001 |  | Mathematics & Statistics I | <p>This course aims at delivering essential mathematical and statistical methods, which are essential for both the first year and subsequent years of the GCM program. Students will gain a solid grasp of core mathematical and statistical concepts that form the foundation for understanding finance, business and economic-related subjects. This course is structured into two parts: part one focuses on mathematics and part two delves into statistics. Main topics covered in this course include algebraic operation, basic elements of differential calculus, elementary matrix algebra; descriptive statistics, probability distributions, hypothesis testing and correlation analysis. Overall, this course primarily emphasizes quantitative skills and as such the course will offer limited amount of content directly related to finance, business and economics. Students will have the opportunity to apply the analytical and quantitative skills through their learning journey. They will be able to utilize these techniques for analysis of contemporary economic and business-related problems.</p> |
| MGT B1009  |  | Operations Management      | <p>This course is designed to give students a better understanding of how firms can gain competitive advantage from their operations function. Typically, this requires the firm to achieve, at a minimum cost and high quality: responsiveness and adaptability to customer needs and desires, rapid time to market, process technology leadership, and sufficient and responsive capacity. A problem-solving framework is developed that enables students to undertake managerial and technical analysis that should result in the desired competitive advantage. Both service and manufacturing case examples are discussed and analyzed.</p>  |