2023 GLOBEX PROGRAM AT PEKING UNIVERSITY, CHINA
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The Globex at the College of Engineering, Peking University is a professional mobility program with a worldwide exchange of students from all disciplines of study. To enhance students' global and professional experience, Globex offers courses that focus on: 1) engineering & science, 2) innovation & entrepreneurship, and 3) China & globalization. Engineering and science generate new knowledge and skills for society to advance and prosper. To convert into useful products, the acquired knowledge and skills need to be commercialized through innovation and entrepreneurship. Societies everywhere are being profoundly impacted by China, as it grows to become the world's largest economy. Globex offers students an opportunity to study China and its culture from engineering perspective. Globex students can select courses up to 6 credits from the various themes.

ONLINE APPLICATION DEADLINE AND TUITION PAYMENT DEADLINE

- Registration must be done at http://globex.coe.pku.edu.cn and requires a compulsory payment of **RMB 300**
- Online Application Deadline: **April 15, 2023**
- Tuition and Other Fee Payment Deadline: **April 30, 2023**

PROGRAM START-END DATES

- Registration
  - June 30, July 1, 2023
- First and last day of class
  - July 3, 2023 – July 21, 2023
- Final exams
  - July 21 or July 22, 2023
- Field trip and tour (optional)
  - Pre- & Mid-Globex Beijing Tour: July 1-2 / July 8, 2023
  - [To participate in the Pre-Globex tour on July 1-2, students need to arrive in Beijing on June 30, 2023]
  - After-Globex Tour: July 23 - 27, 2023

PROGRAM WEBSITE & CONTACT INFORMATION

- Globex Website: http://globex.coe.pku.edu.cn/
- Email Inquiry: globex@pku.edu.cn
<table>
<thead>
<tr>
<th>NO.</th>
<th>CATEGORY</th>
<th>COURSE (3 CREDITS)</th>
<th>INSTRUCTOR</th>
<th>ORGANIZATION</th>
<th>CLASS TIME MON-FRI</th>
</tr>
</thead>
</table>
| 1   | Engineering & Science           | Machine Learning Algorithms: From Math to Code  
机器学习算法：从数学到代码 | WANG Ruye         | Harvey Mudd College, USA                                 | AM (9-12)         |
| 2   | Engineering & Science           | Intelligent Manufacturing and Service Systems  
智能制造与服务系统 | Andrew KUSIAK     | The University of Iowa, USA                              | AM                |
| 3   | Engineering & Science           | Simulation Methods for Optimization and Learning  
优化与学习模拟方法 | Bernd HEIDERGOTT  | Vrije Universiteit, Amsterdam, The Netherlands            | AM                |
| 4   | Innovation & Entrepreneurship   | Sustainability Theory and Practices  
可持续性理论与实践 | Tracy MORSE       | The University of Strathclyde, UK                        | PM (2-5)          |
| 5   | Innovation & Entrepreneurship   | Financial Decisions in Engineering Project Management  
工程项目管理中的金融决策 | Daricha SUTIVONG  | Chulalongkorn University, Thailand                       | PM                |
| 6   | China & Globalization           | China Economy: Technology, Growth and Global Connections  
中国经济：科技、增长与全球联系 | Susan MAYS        | The University of Texas at Austin, USA                   | AM                |
| 7   | China & Globalization           | Chinese Language and Culture  
中华语言与文化       | ZHANG Aidong      | Nanyang Technological University, Singapore              | PM                |
MACHINE LEARNING ALGORITHMS: FROM MATH TO CODE

INSTRUCTORS
WANG Ruye, School of Engineering, Harvey Mudd College, USA
ruye_wang@hmc.edu

SYNOPSIS
This course covers the most essential topics in machine learning (ML), which is in the very core of artificial intelligence, including statistical and neural network methods for both supervised learning, such as naive Bayes classification, AdaBoost algorithm, support vector machines (SVM), Gaussian process classification (GPC), decision tree learning, perceptron network and back propagation network; and unsupervised learning, such as K-means clustering, expectation maximization (EM), competitive learning network and self-organizing map (SOM). The course also discusses various related issues in data compression and feature selection, including dimension reduction methods such as principal component analysis (PCA). The course also covers some related numerical methods necessary for the various learning algorithms, such as algorithms for solving eigenvalue problems, and for linear and quadratic optimization problems both with and without constraints. The course emphasizes the necessary theories and mathematics behind the various algorithms, discussed in class, as well as the code implementation of such algorithms, carried out as homework assignments by the students in any language such as Matlab (recommended), C++, and python, of the student’s choice.

SCHEDULE
9-12 AM, M-F, July 3 – July 21, 2023

OBJECTIVE
The students will gain: basic understanding of the essential issues in machine learning, such as the types of problems to solve, the formulation of the problems, the general methodologies and basic algorithms for solving such problems; insight and experience of applying the relevant mathematics to the ML algorithms; insight and experience of applying the relevant numerical methods needed to implement the ML algorithms; programming skill to carry out the ML algorithms by computer code.

TOPICS
- **REGRESSION ANALYSIS** Linear regression, Nonlinear regression, Logistic regression, Softmax regression, Gaussian process regression
- **CLASSIFICATION (Supervised Learning)** K nearest neighbors/minimum distance, Naive Bayes classifier, Support vector machine, Classification based on Gaussian process, AdaBoost
- **CLUSTERING (Unsupervised Learning)** K-means clustering, Gaussian mixture model, Mixture of Bernoulli
- **NEURAL NETWORKS** Artificial neural networks, Hebbian Learning and Hopfield Network, Perceptron Network, Back Propagation, Competitive Learning, Self-Organizing Map
- **FEATURE SELECTION AND DIMENSION REDUCTION** Feature selection, Principal component analysis (PCA), Kernal PCA, Probabilistic PCA, Classical multidimensional scaling, t-Distributed Stochastic neighbor embedding

PREREQUISITES
The student is expected to have gained familiarity with the basic concepts in calculus, linear algebra, and probability, and proficiency in some programming language (Matlab, python, etc.).

REFERENCE
<Introduction to Machine Learning – From Math to Code>, material will be provided during the course.

NOTE
Students need to bring their own laptops for this course.

GRADING
Student grade is based on the scores of a set of coding projects.

WANG Ruye
Ruye Wang is Professor Emeritus of Engineering, Harvey Mudd College, U.S.A. Dr. Wang obtained PhD from Rutgers University. His research interests include image processing, pattern recognition, vision systems, data mining, remote sensing, neural computation and bioinformatics.
INTELLIGENT MANUFACTURING AND SERVICE SYSTEMS

INSTRUCTORS
Andrew KUSIAK, Department of Industrial and Systems Engineering, The University of Iowa, USA [andrew-kusiak@uiowa.edu]

SYNOPSIS
Manufacturing and service industry is undergoing a transformation towards greater service orientation and autonomy. The use of sensors and wireless technologies capturing data is growing across industries. Emerging configurations of systems are analyzed, optimized, and designed. Models, methodologies, and algorithms in support of design and analysis of intelligent manufacturing and business systems are discussed. Data science, computational intelligence, cloud computing, and diverse x-as-a-service systems are introduced.

AUDIENCE
Year 3 & 4 Undergraduate and Graduate Students

SCHEDULE
9 – 12 AM, M – F, July 3 – July 21, 2023

TOTAL CONTACT HOURS 45

TOPICS
- Introduction to intelligent manufacturing and service applications
- Digitization in manufacturing and service industry
- Systems modeling
- System analysis
- Process optimization
- System decomposition
- Reliability and quality analysis
- Resiliency and sustainability analysis
- Data science
- Computational intelligence in x-as-a-service systems
- Emerging developments in intelligent manufacturing and business applications
- Innovation science and the industry of the future

NOTE
Students will use their own laptops in this course

GRADING

<table>
<thead>
<tr>
<th>Homework/assignments</th>
<th>25%</th>
<th>Quizzes</th>
<th>20%</th>
<th>Classroom exercises</th>
<th>30%</th>
<th>Project</th>
<th>25%</th>
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</tbody>
</table>

Andrew KUSIAK

Andrew Kusiak is a Professor in the Department of Mechanical and Industrial Engineering at The University of Iowa, Iowa City and Director of the Intelligent Systems Laboratory. He has chaired two departments, Industrial Engineering (1988-95) and Mechanical and Industrial Engineering (2010-15). His current research interests include applications of computational intelligence and big data in automation, manufacturing, product development, renewable energy, sustainability, and healthcare. He has published numerous books and hundreds of technical papers in journals sponsored by professional societies, such as the Association for the Advancement of Artificial Intelligence, the American Society of Mechanical Engineers, Institute of Industrial Engineers, Institute of Electrical and Electronics Engineers, Nature, and other societies. He speaks frequently at international meetings, conducts professional seminars, and consults for industrial corporations. Dr. Kusiak has served in elected professional society positions as well as various editorial boards of over fifty journals, including five different IEEE Transactions.
INSTRUCTORS
Bernd HEIDEGGOTT, Vrije Universiteit, Amsterdam, The Netherlands
(b.f.heidergott@vu.nl)

SYNOPSIS
This course gives a broad treatment of the important aspects of the use of computer simulation for the analysis and optimization of dynamic stochastic models. The emphasis is on modeling the stochastic system as a discrete event dynamic system, and analyzing and improving its performance by means of discrete event simulation. Applications will stem from a wide range of domains: from Social Networks to Computer Networks, and Financial Engineering to Business Processes. The course will introduce students to the use of computer simulation in analyzing dynamic stochastic models through simulation-based/data-driven methods for optimization and learning. The leading question of the course is how to use simulation to make better and more responsible decisions for real-life problems. The course will also reflect on the technological and mathematical developments we witness in our societies. While actively working on simulation projects, the course will provide space for reflecting on the mathematical/technological paradigm. That is, next to learning the actual techniques, students will be stimulated to reflect on the history of science and the technological developments around them.

AUDIENCE
Year 3 & 4 Undergraduate and Graduate Students

SCHEDULE
9-12 AM, M-F, July 3 – 21, 2023 TOTAL CONTACT HOURS 45

OBJECTIVE
Students learn how to model and analyze real-life problems by Monte Carlo simulation. After successful completion of this course, students will be able to conduct a Monte Carlo simulation based analysis of a problem, provide an output analysis, and place their research into the broader historical and societal context.

TOPICS
- Programming language is Python (basic programs will be provided). Other programming languages, such as Matlab, are also fine but are not supported.
- Basics of Monte Carlo Simulation: random number generation, discrete event simulation, output analysis
- Standard simulation models: queuing systems, social networks, financial products, inventory systems, news vendor problem
- Data and simulation: combining simulation with available historical data
- Estimation of gradients via simulation and their application in learning and optimization: stochastic gradient method, stochastic approximation, supervised learning, non-supervised learning

PREREQUISITES
Material will be provided during the course.
Additional recommended reading

NOTE
Students need to bring their own laptops for this course.

GRADING
Presentation and written report 30%  Simulation project and written report 30%  Final exam 30%  Attendance and participation 10%

Total 100%

Bernd HEIDEGGOTT
Bernd HEIDEGGOTT earned his PhD degree from Center of Mathematical Statistics and Stochastic Processes, Department of Mathematics, University of Hamburg. Now he is teaching mathematics and statistics for economists in Department of Econometrics and Operations Research at the Vrije Universiteit Amsterdam. He also teaches a course on Convex Analysis and Optimization for econometricians. Received the Best Lecturer Award of the faculty of Economics and Business Administration of the VU for the academic year 2008/2009. His main current research directions are gradient estimation, differentiation theory, Taylor series expansions and Max-plus algebra.
INSTRUCTORS

Tracy MORSE, Centre for Sustainable Development, The University of Strathclyde, UK (tracy.thomson@strath.ac.uk)

SYNOPSIS

This course will introduce students to sustainability in the context of energy supply and demand both now and in the future. Using case studies and practical examples, the course will examine current and future energy demands in terms of CO2 emissions and climate change, future challenges and opportunities in the energy sector for high and low income countries, trans/interdisciplinary and cross sectoral engagement in the development of energy solutions, and how these solutions may affect society, economies and the environment. This course will be led by Dr Tracy Morse and will feature lectures from a range of experts from across the University of Strathclyde.

AUDIENCE

Year 3 & 4 Undergraduate and Graduate Students

SCHEDULE

2-5 PM, M-F, July 3 - 21, 2023

TOTAL CONTACT HOURS 45

OBJECTIVE

To develop an understanding of the principles of sustainability, and how the many facets of sustainability relate to the current and future demand for energy

TOPICS

- Understanding the principles of sustainability
- Sustainability and systems thinking
- Introduction to key sustainability issues around energy
- Current and future energy demands
- Energy system transitions and sustainability
- Energy justice through the system transition

REFERENCE

Material will be provided during the course

Additional recommended reading


GRADING

<table>
<thead>
<tr>
<th>3 x weekly assessments</th>
<th>90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance and discussion</td>
<td>10%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Tracy MORSE

Tracy Morse is Senior Lecturer and Head of Strathclyde Centre for Sustainable Development. Having previously been based in Malawi for 20 years, she leads an interdisciplinary research team with a focus on addressing the determinants of health in low and middle income countries. Working with a number of partners globally, she is focused on promoting the importance of transdisciplinary research in addressing sustainable development for all, and supporting the transformational change needed to support attainment of UN SDGs.
FINANCIAL DECISIONS IN ENGINEERING PROJECT MANAGEMENT

INSTRUCTORS:
Daricha SUTIVONG, Department of Industrial Engineering, Chulalongkorn University, Thailand (daricha.s@gmail.com)

SYNOPSIS
The course introduces widely-used financial techniques for project evaluation. Based on the time value of money concept, the course examines how to analyze and valuate various cash flow patterns and provides popular economic measures for project assessment and selection, including the net present value and the rate of return, along with the application criteria for single and multiple project decisions. The course also addresses decision under uncertainties using techniques such as breakeven analysis, sensitivity analysis, decision tree, etc. Students will have an opportunity to perform a financial analysis of their interested problem in a group project and create management report and presentation.

AUDIENCE
Undergraduate and Graduate Students (all majors and all levels) with no prerequisites

SCHEDULE
2-5 PM, M-F, July 3-21, 2023

TOTAL CONTACT HOURS 45

OBJECTIVE
To develop an understanding of financial techniques used for project evaluation, project selection and decision under risk and uncertainties. Students will apply their knowledge to a real-world problem in a team environment.

TOPICS
- Time Value of Money, Interest Rate, Economic Equivalence, Simple and Compound Interests
- Nominal and Effective Interest Rates: Discrete Time Period, Continuous Compounding
- Present Value Analysis: Equal-life Alternatives, Different-life Alternatives, Capitalized Cost, Payback Period
- Annual Value Analysis: Capital Recovery, Equivalent Annual Value
- Rate of Return Analysis: Single Alternative
- Rate of Return Analysis: Multiple Alternatives
- Breakeven Analysis: Single and Multiple Alternatives
- Decision under Uncertainties: Sensitivity Analysis, Three Estimates, Expected Value Decision, Decision Tree
- Financial Analysis Modeling
- Creating Report and Presentation for Management

GRADING

| Quiz 1 (topics 1-3) | 25% |
| Quiz 2 (topics 4-9) | 35% |
| Group Project: Presentation and Report | 30% |
| Attendance and Discussion | 10% |

Total 100%

Daricha SUTIVONG

Daricha SUTIVONG, now professor in Department of Industrial Engineering at Chulalongkorn University, earned her PhD from Management Science and Engineering, Stanford University and Masters in Engineering from Stanford University and MIT. Her research interests mainly focus on Engineering economic analysis and modeling, information technology investment, information markets, economics of electricity and energy, decision analysis and risk management.
CHINA ECONOMY: TECHNOLOGY, GROWTH AND GLOBAL CONNECTIONS

Susan MAYS, Center for Asian American Studies, The University of Texas at Austin, USA  
(smays@utexas.edu)

SYNOPSIS
This course addresses economic development in China, in global context. The course examines trends in trade, foreign investment, ownership (i.e., public vs. private), finance, the workforce, and consumption. The class also considers challenges and opportunities in China in the areas of environment, energy, education, and healthcare. Taught by an economic historian, the course considers China’s unique history, culture, and business context, as well as global partnerships and influences. The reading and course materials are by scholars, leaders in business, economics and policy, as well as journalists.

AUDIENCE
Undergraduate and Graduate Students [all majors and all levels] with no prerequisites

NOTE
Students-in-person in the classroom. TA in the classroom. Instructor via video (class is not livestreamed nor recorded)

SCHEDULE
9-12 AM, M-F, July 3 - 21, 2023

TOTAL CONTACT HOURS 45

TOPICS
- China’s Reform and Opening from 1978 and Chinese Governance
- Rural-to-Urban Labor Migration, Export-led Development, and Foreign Trade
- Business Ownership (private, state-owned, Sino-foreign joint ventures, foreign owned)
- Financial Services and the Legal System
- High Tech Sectors and Entrepreneurship
- The Education System and China’s Talent Pool
- Energy and Environmental Challenges
- Family Economics and the Healthcare Industry
- The Foreign Sector in China and Chinese Investments Abroad
- Infrastructure Initiatives

GRADING
Undergraduate Students:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>2 Noncumulative Quizzes (multiple choice)</td>
<td>50%</td>
</tr>
<tr>
<td>2 Written Readings/In-ClassEssays (draft)</td>
<td>25%</td>
</tr>
<tr>
<td>Individual Paper or Group Project (choose one)</td>
<td>25%</td>
</tr>
</tbody>
</table>

Total 100%

Graduate Students: Same grading as above, except requires an Individual Paper of 6000+ words.

Susan MAYS

Susan Mays holds a PhD from Columbia University in Global Economic History (Asia/China focus), an MA from Harvard University in East Asian Studies (China focus), an MS from Stanford University in Engineering-Economic Systems, and a BS from Purdue University in Engineering. Prior to academia, Dr. Mays worked in business and technology with Fortune 500 companies initially as an engineer and later as a management consultant with Kearney. Susan Mays’ primary focus is economic and technological development in Asia, particularly China. Her interdisciplinary projects have addressed high technology sectors in China/East Asia including how global trade, investment, and supply chains influence organizations and human capital. She focuses on macro-economic trends and trends in business, technology, and human resources.
CHINESE LANGUAGE AND CULTURE

INSTRUCTORS
ZHANG Aidong, Asian Languages and Cultures, NIE, Nanyang Technological University Academic Director, OCCB International, Singapore (azhang2020@outlook.com)

SYNOPSIS
This course is designed to introduce different aspects of Chinese language and culture, including the relationship between Chinese thought, culture, and language. The characteristics of Chinese language and scripts. Chinese society, folklore, and language. Chinese thought patterns and thinking styles. Eastern and Western ways of thinking and the cultural attributes embedded. The social and cultural changes as well as its influence on Chinese language.

AUDIENCE
Undergraduate and Graduate Students [all majors and all levels] with prerequisite: Basic Chinese reading and listening skills

SCHEDULE
2-5 PM, M-F, July 3 – 21, 2023

OBJECTIVE
- Better appreciate Chinese language and culture
- To enhance communication and social interchange skills involving Chinese language and culture
- To facilitate students’ career development and various undertakings in a global context and fast changing world.

TOPICS
- Chinese language, culture, and thought
- Cultural exchange and languages
- Chinese Language, characters, Chinese cultural circle
- Chinese Language, Literature, and Theatre
- Chinese writing and oral expression, the elegant and vulgar
- Society, Folklore, and Language
- Appellation and name
- Proverbs and the Chinese view of the world
- "Qi": its thinking and language
- Numbers and Chinese culture
- Thinking: East vs West, and its cultural characteristics
- The Language-Culture Pyramid

GRADING
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<tr>
<th>Assignment 20%</th>
<th>Presentation 30%</th>
<th>Test 50%</th>
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<td>Total 100%</td>
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</tbody>
</table>

ZHANG Aidong

Dr. Zhang comes from Asian Languages and Cultures, NIE, Nanyang Technological University and is the Academic Director from OCCB International, Singapore. She teaches in the areas of Classical Chinese Literature, Chinese Language and Culture, and Modern Chinese Literature.

Her current research interests include Classical Chinese Literature, Chinese Poetics, and Comparative Literature. She has published widely in academic journals East and West.
## PROGRAM EXPENSES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COST</th>
<th>ESTIMATED EXPENSES FOR A 1-MONTH (IN JULY) STAY IN BEIJING (pro-rate your expenses if your stay is less than 31 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGISTRATION FEE</td>
<td>USD 43 (CNY 300)</td>
<td>Compulsory Registration Fee for All Applicants</td>
</tr>
<tr>
<td><strong>ACCOMMODATION</strong></td>
<td></td>
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<tr>
<td>31-Day Stay</td>
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</tr>
<tr>
<td>A: USD 930 (CNY 6510)</td>
<td>Beijing Post &amp; Telecom Conference Center</td>
<td>Type A - Standard Double Occupancy: CNY 210/day/person Type B - Superior Double Occupancy: CNY 250/day/person</td>
</tr>
<tr>
<td>B: USD 1100 (CNY 7750)</td>
<td>Ariva Beijing West Hotel &amp; Serviced Apartment</td>
<td>Type C - Superior Double Occupancy: CNY 265/day/person Type D - Loft Double Occupancy: CNY 315/day/person</td>
</tr>
<tr>
<td>C: USD 1170 (CNY 8215)</td>
<td></td>
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<tr>
<td>D: USD 1395 (CNY 9765)</td>
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<tr>
<td><strong>MEALS</strong></td>
<td>~ USD 220 (CNY 1550)</td>
<td>CNY 50/day X 31 days [meals at PKU cafeteria]</td>
</tr>
<tr>
<td><strong>MISCELLANEOUS</strong></td>
<td>~ USD 220 (CNY 1550)</td>
<td>Personal items, transportation etc.</td>
</tr>
<tr>
<td><strong>BASIC TOTAL</strong></td>
<td>USD 1415-1880 (CNY 9910-13165)</td>
<td>Recommended minimum Expenses are estimates, your actual cost may be different Airfare not included</td>
</tr>
<tr>
<td><strong>GLOBEX TUITION</strong></td>
<td>USD 0-1714 (CNY 0-12,000)</td>
<td>• Full tuition waiver (you may still need to pay tuition to your home school) • Partial tuition waiver • Full cost recovery</td>
</tr>
<tr>
<td><strong>FIELD TRIP &amp; TOUR</strong></td>
<td>~ USD 150 (CNY 1050)</td>
<td>Pre-/Mid-Globex Beijing Tour (Including the Great Wall, Forbidden City, Summer Palace etc.)</td>
</tr>
<tr>
<td>(Optional)</td>
<td>~ USD 400-450 (CNY 2800-3150)</td>
<td>After-Globex Tour (round-trip sleeping berth/high-speed train) • Xi’an Terra Cotta Warriors-Huaqing Palace-Qianling-Ming City Wall (5 days, ~USD 450) • Hangzhou-Suzhou-Wuzhen-Shanghai (5 days, ~USD 430) • Baotu Spring-Taishan Mountain-Qufu Confucius Temple (3 days, ~USD 400)</td>
</tr>
</tbody>
</table>

### MISCELLANEOUS INFO:
**CREDIT TRANSFER, CHINESE VISA, HEALTH INSURANCE, TRANSCRIPT ETC.**

Globex will provide course syllabi and PKU transcript to facilitate course credit transfer, it does not however, guarantee that the credits will be acceptable by the student’s home university.

Globex will provide the necessary documents for applicants to apply for their Chinese visas.

It is mandatory for all Globex students to process a valid medical insurance during their stay in China.

Official PKU transcript and certificate of completion will be offered in **September, 2023**.

Please visit [http://globex.coe.pku.edu.cn](http://globex.coe.pku.edu.cn) for more detailed information and stay informed for the latest updates.