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王蒙題

WENZHOU UNIVERSITY

INTERNATIONAL STUDENTS CATALOG 2024

温州大学国际学生招生简章

温州大學
WENZHOU UNIVERSITY

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Study in WZU

Application Guide

温州大學
WENZHOU UNIVERSITY

CONTENTS

About Wenzhou

A historic city with picturesque views

WENZHOU

Wenzhou was known as Ouyue in ancient times, and Wenzhou people had settled here five or six thousand years ago. Due to its warm climate and being warm in the middle of the winter, Wenzhou city was also dubbed as “Warm State”.

Wenzhou is situated in the southeast of Zhejiang Province. Enjoying a coastline of 355 kilometers and located at the intersection of Yangtze Delta and Pearl River Delta economic zones, it is the economic, cultural, and transportation center of Southern Zhejiang Province. With a total population of 9,645,000, Wenzhou administers four districts-Lucheng District, Longwan District, Ouhai District and Dongtou District, three cities-Ruian City, Yueqing City and Longgang City, and five counties- Yongjia, Pingyang, Cangnan, Wencheng, and Taishun.

Wenzhou, as one of the earliest frontiers of China's Opening-up and Reform Policy, enjoys highly developed commercial business. Almost every household in Wenzhou does some kind of business. Companies opened by people of Wenzhou have spread all over the world, and the businessmen in Wenzhou are known for their shrewdness in business.

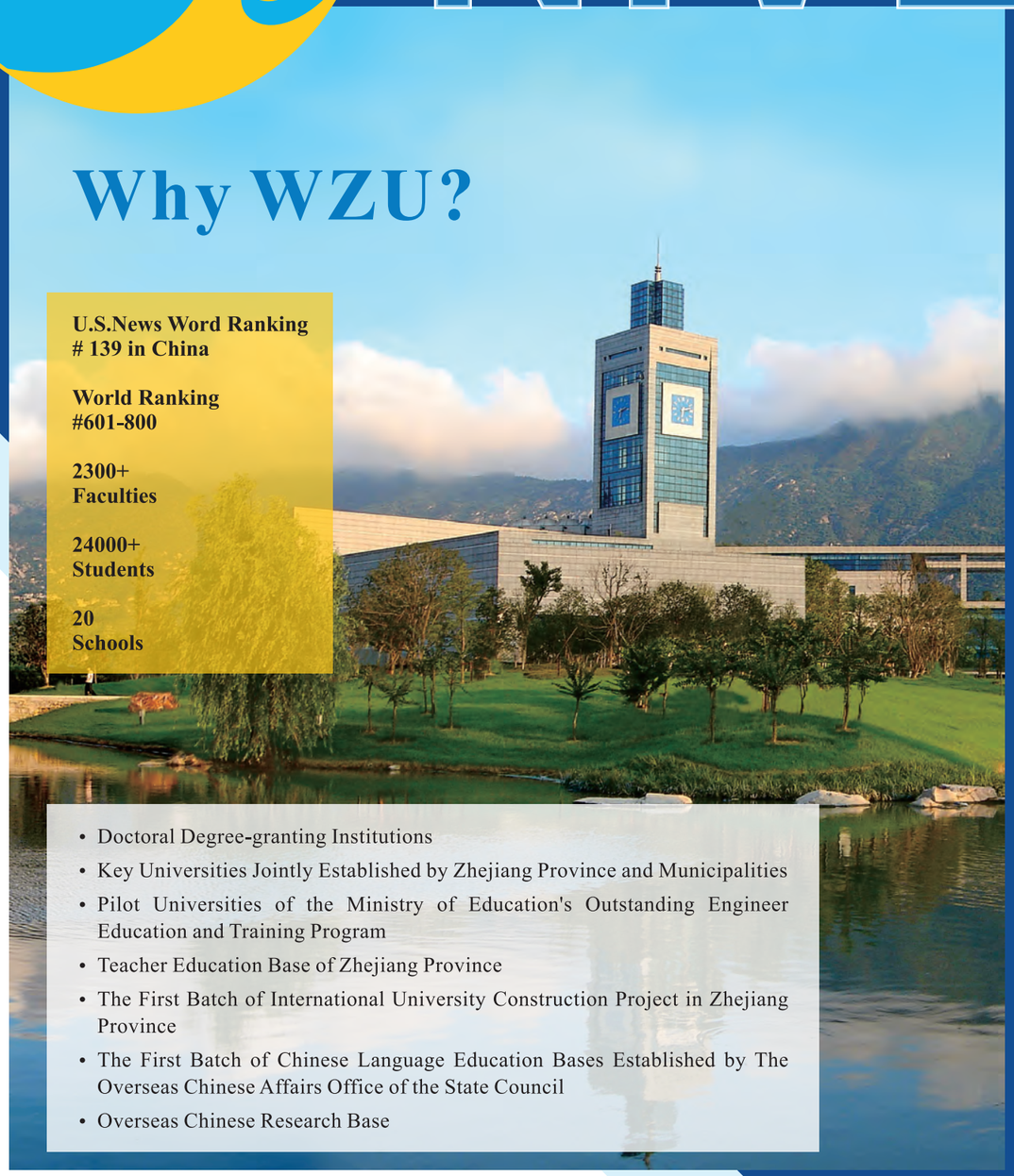
Currently, Wenzhou City has put forward the urban positioning of "Millennium Port, Happy Wenzhou". In the future, Wenzhou will be built into a city where overseas Chinese gather, entrepreneurship, innovation, and wealth creation flourish. It will be a city that connects the world, with boundless vitality and access to all five continents. It will also be a city where people share a sense of pride and confidence, warmth and kindness.

NIVERSITY

Wenzhou University

College of International Education

Why WZU?



U.S.News Word Ranking
 # 139 in China

World Ranking
#601-800

2300+
Faculties

24000+
Students

20
Schools

- Doctoral Degree-granting Institutions
- Key Universities Jointly Established by Zhejiang Province and Municipalities
- Pilot Universities of the Ministry of Education's Outstanding Engineer Education and Training Program
- Teacher Education Base of Zhejiang Province
- The First Batch of International University Construction Project in Zhejiang Province
- The First Batch of Chinese Language Education Bases Established by The Overseas Chinese Affairs Office of the State Council
- Overseas Chinese Research Base

North Campus

Bachelor	Master	Doctoral
54	38	1

South Campus

STUDY AT WENZHOU UNIVERSITY

The Area Covered by the Library	**52,229** square meters
Number of Paper Books	**2.83** million
The Number of E-books	**1.91** million
Types of Databases	**97**
Daily Open Hours	**15**
Hours Open All Year Round	**7*15*365**

▪ Study at Wenzhou University and Achieve your Future Success

Top-level Hardware Facilities: 1,060,600 square meters of teaching and living buildings, and a total value of 961 million yuan of teaching and research equipment

Excellent faculty: 2296 teaching staff, including 1449 full-time teachers (992 doctors, accounting for 68.46%)

Specialized disciplines: 1 first-level discipline doctoral degree authorization point, 18 first-level discipline master's degree authorization points, and 18 master's professional degree authorization points. Four disciplines including chemistry, materials science, engineering and computer science have entered the top 1% of ESI in the world.

▪ Various Learning Activities and Fulfilling Growth

There are free extracurricular Chinese training, interdisciplinary knowledge exchange. You can also experience the unique charm of Chinese traditional culture.

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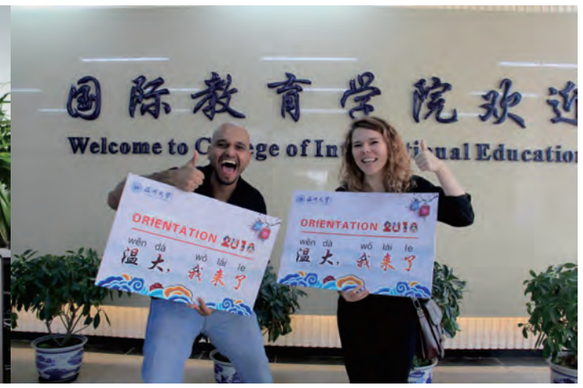


LIFE IN WENZHOU UNIVERSITY

All kinds of facilities are available,such as supermarkets, banks, shopping malls, scenic spots, cinemas, gyms, bookstores...

Living in Wenzhou University is not only for the picturesque views, but also for the considerate environment that is suitable for our study and life. Convenient living facilities, high-quality and efficient services, versatile shared space and friends from all over the world,all of these make up our colorful campus life.

▪ CONVENIENT LIVING FACILITIES

The service facilities in the living area are very well equipped. Each dormitory area has a unique student cafeteria, especially the Smart Cafeteria, which can bring delicious food to students from all over the world. In addition, there are chain supermarkets, fruit stores, banking services, bookstores, snack streets, etc. in the school. This place can meet your needs in accommodation and entertainment.There are also many bus lines around the school, which ensures that you can visit Wenzhou at anytime to anywhere.

▪ EFFICIENT SERVICES

Each dormitory area has a student affairs center, which is a comprehensive platform for office services, consulting services, and learning exchanges. You can get advice on study and life here, do self-printing , and so on. The College of International Education is also responsible for the daily affairs and consulting services of all international students, where you can apply for visas, insurance, tuition payments, scholarship applications, course selection to achieve "one-stop" services.

▪ VERSATILE SHARED SPACE

The dormitory area has shared spaces such as study rooms, conversation rooms, group tutoring rooms, and apartment kitchens. You can swim in the sea of books and explore philosophies here. You can also meet teachers and friends from all over the world here, learn and grow together.

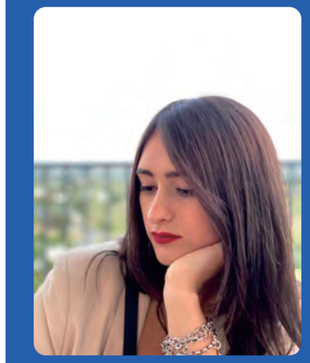
Alumui Words of Encouragement

Wenzhou university, Your dream sets sail from here

In the past five years, the graduation rate of international undergraduate and graduate students in our university has remained above 90%, and nearly 35% of our undergraduate students have successfully applied for master's programs in other major universities in China. In 2022, nearly 10 graduates successfully applied for Chinese government scholarships.There is also a certain number of graduates working for well-known companies in China each year.

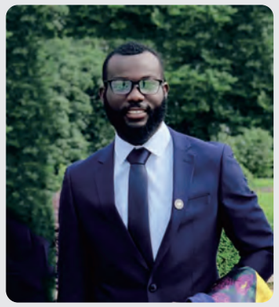
A university can be many things to a person but of those many things, it should be a place where one can reinvent oneself, achieve goals, find passions and grow into the person one wishes to be. It is a place with cultural diversity where you meet different people and learn beyond academics. Wenzhou University is such a place.

BANDA JOSHUA,class of 2011,comes from Zambia and is now studying for a master's degree at Wenzhou Medical University.



When I was studying at the Instituto Universitario Orientale,Italy, I had already known about Wenzhou University and I came to Wenzhou University to study Chinese in 2018 as an exchange student.Although i didn’t stay in Wenzhou University for a long time, this period of experience is very impressive and full of memories. You can study Chinese very comprehensively, and you can also participate in various interesting cultural experience activities here.

LAURA COSTANTINO, from Italy,2018 Chinese language student in Wenzhou University and is currently serving as an Italian teacher at Sichuan Normal University.

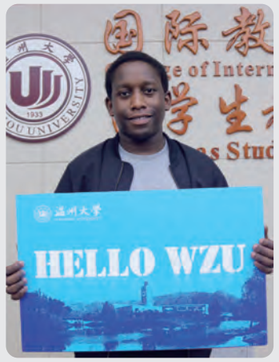


Wenzhou University seemed to be the best place that offered me more opportunities to grow as a person. Through WZU, not only did I have a great network of intelligent and resourceful people around me, but I also had the opportunity to meet students from many different countries, which gave me a better understanding of different cultures in this world and also gave me the platform to form lasting friendships.

ADOFO MICHAEL ADJEI,class of 2019,comes from Ghana and is now working in Yueqing Denggao Electric Co., Ltd.

The more that you read, the more things you will know. The more you learn, the more places you’ll go. And Wenzhou university is one of those destinations. This is is a place where true friendships are formed. It also made me realize my true potential and helped me become who I am today.

TASSEW TEWODROS MEGABIAW,class of 2021,comes from Tanzania and is now pursuing a master's degree at Northwestern Polytechnical University.



At Wenzhou University, I have enjoyed access to an immense collection of academic resources coupled with very supportive teachers, first-hand experience with using cutting-edge technologies in computer science, as well as opportunities to broaden my perspective through meeting people from different countries around the world. The invaluable knowledge and skills I have acquired while studying at Wenzhou University have been extremely useful in my subsequent chapter of academic pursuit.

LUHWAGO JOSHUA CHARLES, class of 2022,comes from Tanzania and is currently pursuing a master's degree at Beihang University.

COLLEGES AND PROGRAMS

Business school

Bachelor program:
International Economics and Trade
Business Administration

Master program:
Applied Economics

Law school

Bachelor program:
Law

Master program:
Law

College of International Education

Bachelor program:
Chinese Language and Literature

Master program:
Master of International Chinese Language

School of Foreign Studies

Master program:
M.Ed. in English teaching
N.Master of Translation and Interpreting

College of Computer Science and Artificial Intelligence

Bachelor program:
Computer Science and Technology

Master program:
Computer Science and Technology

College of Civil Engineering and Architecture

Bachelor program:
Civil Engineering

College of Chemistry and Material Engineering

Bachelor program:
Chemistry

Master program:
Chemistry
Material Science and Engineering

Doctoral program:
Chemistry

School of Electromechanical Engineering

Bachelor program:
Mechanical Engineering

Master program:
Mechanical Engineering

College of Electrical and Electronic Engineering

Master program:
Electrical Engineering

College of Life and Environmental Science

Bachelor program:
Biotechnology

Master program:
Biology
Resources and Environment

Overseas Chinese College

Master program:
Overseas Chinese Studies

College Of Innovation And Entrepreneurship

Master program:
Entrepreneurship Education

TUITION AND FEES

Bachelor Programs	Liberal Arts : RMB 18,000 / Year
	Science & Engineering : RMB 20,000 / Year
Master Programs	Liberal Arts : RMB 20,000 / Year
	Science & Engineering : RMB 22,000 / Year
Doctoral Program	RMB 27,000 / Year
Language Program	One Semester: RMB 7,000; One Year: RMB 12,000
Application Fee	Degree Program: RMB 800/Person
	Non-degree Program: RMB 400/Person
Insurance Fee	RMB 800 / Year
Residence Permit	RMB 800 / Year
Accommodation Fee	RMB 2,900-4,000 / Year
Physical Examination	Around RMB 400/Person

ADMISSION DOCUMENTATION

Entry Requirements

1. Non-Chinese citizens with a valid passport
2. High school graduate or equivalent to a Chinese high school graduate (Bachelor Degree Applicant)
3. University graduate or equivalent to a Chinese University graduate (Master Degree Applicant)
4. Be in good health condition and above the age of 18

Application Materials

1. Graduation certificate of highest education level attained.
   *Graduation certificate should be in Chinese or English. If not, it should be translated into Chinese or English and be notarized.
2. An official transcript from the college you have recently attended.
   * Official transcript should be in Chinese or English. If not, it should be translated into Chinese or English and be notarized.
3. Study plan and Two Recommendation letters (only for Master applicant)
4. Certificate of English proficiency test
   *IELTS or TOEFL will only be required if the applicant is not a native English speaker (A minimum score should be obtained as follows: IELTS 6.0, TOEFL iBT 70, or TOEFL paper based 550)
5. Applicants to Chinese programs must pass HSK grade 5 or above;
6. A photocopy of your passport.
7. Bank statement (normally the balance is enough for your first year tuition fee and accommodation fee)
8. No Criminal Report
9. Health report (within the period of validity)

*Students who are now studying in China should offer the following additional documents:

1. An agreement of transferring universities from the Office for International Students showing at which school or university you are studying now (must have common seal) and a recommendation letter from a teacher at your former school or university. Resident permits: We will help students to renew these when they register at the University and will not process renewals before the registration date.
2. Photocopy of your visa and residence permit in China.

CONTACT US

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E-mail: admission@wzu.edu.cn
Application: http://study.wzu.edu.cn

Application Guide

Welcome to Wenzhou University

We invite you to stroll about our picturesque campuses with beautiful mountain views and relaxing walkways. If you have questions or need assistance, please feel free to ask anyone on campus. Whatever the reason for your visit, we hope you enjoy your stay!

Canteen	Campus Card	Bank	Post Office
Parking	Souvenir Shop	ATM	Information
BUS Station	Supermarket	Toilet	Public Bicycles

Library & Administration

- 14 Yuying Library F3
- 13 Administration Building C2
  - international Relations(#602)
  - Finance(#209,311)
  - Student Affairs
  - Teaching Affairs
  - Postgraduate Affairs
  - Technical Assistance
  - University Police(7x24 help line:86696110)
  - University History Museum
  - Hair Embroidery Museum
- 4 Yansong Hall (Conferences) D2
  - Folklore Museum B5
  - Campus Card D2,B3,A4,D6,F5,F6
- 8 City College B1
- 4 Oujiang College B6

Colleges & Venues

- 8 School of Business B5
- 7 College of Architecture & Civil Engineering C1
- 11 College of Chemistry & Materials Engineering B2
- 2 College of Fine Arts and Design D2
- 7 School of Foreign Studies B5
- 1 College of Humanities B5
- 3 College of International Education B3
- 2 College of Law and Political Scie B6 B6
- 10 College of Life & Environmental Science B2
- 9 College of physical Education A5
- 1 College of Computer Science and Artificial Intelligence D1
- 3 College of Mathematics & Information Science D2
- 5 College of Marxism B5
- 6 College of Mechanical & Electrical Engineering C1
- 6 College of Music B5
- 9 College of Teacher Education D3

Residence & Canteens

- A Buqing Community B3
  - Clinic (South Campus)(2nd floor)
  - Clinic Post Mailbox
  - China Mobile
- C Suchu Community D6
- E Chaohao Community F6
- 12 Expert Building (Zhuan Jia Lou) B3
  - International Student Residence

温州大學 WENZHOU UNIVERSITY

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温州大学 WENZHOU UNIVERSITY

WENZHOU UNIVERSITY MAP

温州大學
WENZHOU UNIVERSITY

Bachelor Programs

- International Economics and Trade
- Business Administration
- Chinese Language and Literature
- Law
- Computer Science and Technology
- Chemistry
- Civil Engineering
- Mechanical Engineering
- Biotechnology

International Economics and Trade

国际经济与贸易

PROFILE

This BSc in International Trade is heavily career-oriented and is based on strong ties to trade and industry within the international marketplace. This Business School has a commitment to being at the forefront of the current and evolving practice of business and thereby facilitates education programs that reflect the realities of the marketplace.

JOB PROSPECTS

With the intensification of economic globalization, there are increasingly frequent economic and trade exchanges between China and other countries. Talented individuals that thrive on this program are bound to receive a lot of attention; these will be the ones that major in international economy and trade and who are familiar with international practices. They will also be proficient in foreign languages and international trade rules and will have the ability to master the knowledge and skills of trade negotiations.

According to other sources, the employment rate of international economy and trade in recent years is more than 87 percent, which makes it a major with a very high employment rate. Senior practitioners of international economics and trade can become involved in foreign trade enterprises, foreign-funded enterprises, multinational companies or enterprises with the right to operate foreign trade and other foreign economies and trade departments and much more.

The main employment directions include:

-Engaging in operation and management of domestic and foreign banks and non-bank financial institutions

-Engaging in international trade, financial investment, marketing, e-commerce, international logistics and other fields in industrial and commercial enterprises

-International Business

-Introduction to Management, Microeconomics, Macroeconomics, Introduction to Accounting and Introduction to Statistics

-International Finance, Foreign Trade Documents, Global Investments, International Finance and Risk Management

PRACTICAL TEACHING

100 percent of courses at WZU are conducted in English. More than 20 staff members have been recruited from top universities, research institutes and companies from six countries worldwide. Many of our faculty have hands-on business experience as consultants, entrepreneurs, investors, advisors, board members, and executives.

DURATION

4 years

EDUCATION OBJECTIVES

The objective of the program is to educate graduates who can understand business practice and are able to apply theories and methodologies within the international business and marketing sectors. They will be able to independently and professionally perform duties related to international business and marketing within the international market place, ranging from small or medium-sized enterprises to huge international corporations.

CORE COURSES

International Business, Introduction to Management, Microeconomics, Macroeconomics, Introduction to Accounting, Introduction to Statistics International Finance, Foreign Trade Documents, Global Investments, International Finance, Risk Management.

International Business Correspondence

Instructor Hairong WU

Course Description

International Business Correspondence is a compulsory course for International Economics and Trade majors, aiming at cultivating advanced practical skills in students. Through text study and case analysis, students develop practical reading and writing skills necessary for conducting international trade, including correspondences for establishing business relations, inquiries, offers, counter-offers, acceptance, placing an order, making out a contract and any other letters or emails or faxes involved in the process of a contract fulfillment. Students become familiar with each stage of the international trade process based on real workplace needs, written English business documentation, business knowledge, and e-commerce elements. With students' expanded knowledge of vocabulary, professional terminology, abbreviations, sentence patterns, expressions and layout of international trade documents, the students are well-prepared for future employment.

Academic Writing

Instructor Haiying XU

Course Description

Academic Writing is an important manifestation of the scientific research achievements, writing methods and norms of academic papers. Academic writing is the basic knowledge and skills students should process. It is a practice-oriented course, in which students will be instructed in finding, reading, sorting, selecting and reviewing research papers, keeping up with the latest developments as well as an overview of the research areas. Through the study of this course, students will grasp the typical characteristics of graduation thesis with the good foundation laid by the instructing of this course.

Risk Management

Instructor Ying WANG

Course Description

This course will examine the way in which business and society make an assessment of, control and transfer risk. It is designed for the student with no previous knowledge of risk management. The goal of this course is to engage students in active discovery of risk management principles. Students will be prepared to function in a business environment, developing an awareness of the challenges, the tools, and the process of designing and implementing a risk management program. This course focuses on the ways in which business- es and society assess, control, and transfer risk. This process, known as the risk management process, is becoming an increasingly important tool in the management of business and personal financial health. An effective and efficient corporate risk management program leads to knowledge and control of costs and an improved bottom line. The risk management process involves identification of risks and associated potential costs, analysis of the causes of risk of financial loss, determination of various strategies to treat risk, selection of strategies appropriate to the goals and objectives of the business, implementation of the selected strategies, management and monitoring of results.

Business Administration

工商管理

PROFILE

Business School has a commitment to being at the forefront of the current and evolving practice of business and thereby facilitating education programs that reflect the realities of the marketplace.

EDUCATION OBJECTIVES

This program is to prepare graduates to have an internationalized vision and are able to apply related theories and methodologies into international business and market place and to independently and professionally perform duties related to business administration in today's global business world.

DURATION

4 years

JOB PROSPECTS

International Business Administration provides you knowledge about world cultures and societies, a fundamental capability of management and be capable of innovation and business start-up. This program also qualifies you for more prestigious job opportunities such as the role of an entrepreneur, or jobs in governments and multilateral organizations.

PRACTICAL TEACHING

100% of courses at WZU are conducted in English. Approximately 90 faculty members recruited from top universities, research institutes and companies from different countries worldwide. Many of our faculty have hands-on business experience as consultants, entrepreneurs, investors, advisors, board members, and executives.

CORE COURSES

Management, Macroeconomics, Microeconomics, Business Negotiation, Statistics, Organizational Behavior, Business Law, Multinational Enterprises and Global Management, Entrepreneurship practice of SME, Cross Border E- Commerce, Logistics and Supply Chain Management, Management Information System, and so on.

International Trade

Instructor Lu WANG

Course Description

International Trade is the core course for the International Business Administration Program. The main objective of this course is to enable students to understand in a systematic manner the theories and practices in international trade and to enable them to master knowledge and skills in international trade areas in today's dynamic and competitive global environment. The course mainly provides updated cases about international trade such as Trade war between China and US, does refugees really a burden for Europe countries for undergraduate students to discuss according to international trade theories.

Entrepreneurial Practice of the SME

Instructor Zongqiang REN

Course Description

Entrepreneurial Practice of the SME is a core course designed for students in the International Business Administration Program. The fast development of globalisation requires continuous innovation, and the role of SMEs becomes increasingly critical considering the weight of their contributions to the global economy. Most SME proprietors are entrepreneurs, and the innovative behaviours of SMEs are frequently unique and context dependent. Unfortunately, our understanding about SMEs is very limited, which makes managing SMEs difficult in most cases. This course involves studies of characteristics of SMEs, SME ownership and strategy, SME marketing, SME entrepreneurship, etc. This course aims to equip entrepreneurs with the knowledge they need to be successful, stimulate innovation in SMEs, and help SMEs to compete and prosper.

Management Information System

Instructor Ying WANG

Course Description

Management Information System is the core course for the International Business Administration Program. The purpose of this course is to provide an understanding of the strategic use and impact of information technology in business firms. The course covers both technical and managerial aspects of MIS. A number of short business cases will be discussed in the class. These cases include Taobao in China, IT infrastructure of Facebook and 12306.cn, Xiaomi et al.

Logistics and Supply Chain Management

Instructor Zongqiang REN

Course Description

Logistics and Supply chain management is the core course for the International Business Administration Program. This course entails managing the flow of goods and information through a production or distribution network to ensure that the right goods are delivered to the right place in the right quantity at the right time. The objectives of this course is to help students gain knowledge and skills of efficient procurement, production and delivery systems. This course provides cases from strategic activities, such as capacity expansion or consolidation, make/buy decisions and initiation of supplier contracts, to tactical activities, such as production, procurement and logistics planning, to, finally, operational activities, such as operations scheduling and release decisions, batch sizing and issuing of purchase orders.

Chinese Language and Literature

汉语言文学

PROFILE

TThis program is to prepare students to use fluent Chinese at business or workplace settings, and effectively understand business information written in Chinese, while providing a solid foundation in international trade and to cultivate their capacity to teach Chinese as a foreign language, This program includes courses on Chinese language, business communication and Chinese language teaching, The language and major courses are taught using both English and Chinese; general courses are taught in English.

Applicants with an HSK4 or HSK5 certificate can be excused from courses of the first year or/and the second year.

EDUCATION OBJECTIVES

- To improve Chinese listening, speaking, reading and writing skills at the workplace, applicable across various industries.
- To expand knowledge of business terms, phrases, and syntax; learn to use to them via exercises such as substitution drills and role-plays.
- To enhance confidence in using Chinese in both formal and informal situations.

DURATION

4 years

JOB PROSPECTS

Government organizations, as well as working in all kinds of international companies as secretaries, translators, salespeople, and business activity designers.

EXAMPLES

- Work in Chinese companies
- Start your own business in China and do business with Chinese people
- Work in one's home country as a representative of a Chinese company, such as the overseas offices of Bank of China
- Work as translators for Chinese or their home country's companies
- Work as tour guides for Chinese tourists in their home countries
- Work as teachers of Chinese in their home countries

CORE COURSES

Elementary Chinese, Intermediate Chinese, Advanced Chinese, Business Chinese Listening and Speaking, Business Chinese Reading and Writing, Business Chinese Translation, Contemporary Business.

Listening & Speaking

Course Description

Focus on conversational training; develop accuracy and fluency of verbal expression through discussions, role-play, drills, debates, etc.

Learn business terms through various business or workplace scenarios.

Course Level

Beginner Levels:	Pre-Intermediate Levels	Intermediate & Advanced Levels:
Chinese phonetics (Hanyu Pinyin), accurate pronunciation. Learn basic characters and common phrases, handle daily workplace scenarios, and hold simple conversations, for instance greetings, asking questions, self-introduction, habits, hobbies, etc.	Removal of Chinese phonetics assistance in courseware, pre-requisite to possess a baseline level of reading skills. Learn common business expressions, hold general conversations at workplace and social settings, and express personal opinions clearly.	Learn to use business terms in various types of workplaces and complex sentences in conversations. Engage in in-depth discussions on topics related to individual profession;clearly state reasons and point of view. Speak on formal occasions and enhancing the appropriateness, logic and coherence of expression.

Reading & Writing

Course Description

Master reading and writing skills necessary for the workplace.

Learn business terms and master using various written materials such as signs, reports, news, speeches, etc.

Comprehensive Chinese

Course Description

An inclusive and comprehensive training for listening, speaking, reading and writing.

Law

法学

PROFILE

The undergraduate program in the Law School at WZU is specially designed for international students who have an interest in financial, business, and commercial law in an international context. The program provides students the opportunity to explore the international economic legal system and to prepare for further and deeper study in international economic law or to practice international business law. Through a series of intensive courses, students develop their own intellectual toolbox for future careers in the era of economic globalization.

COURSE

LLB at WZU Law is a four-year degree program. In the first two years (Freshman), we ensure that the balance is appropriately divided between Chinese language and basic law courses, which is achieved through the unique Chinese language courses and Chinese culture courses, including Advanced Chinese, Chinese Writing, Chinese Viewing, Listening & Speaking, Chinese Culture and Practice, as well as all the foundation courses of law. In the third and fourth years, students focus on the study of International Economic Law. This progression provides our graduates with the advantages of early specialization and a solid foundation in their academic career.

DURATION

4 years

STRUCTURE OF CURRICULUM

Chinese Language Modules: Comprehensive Chinese; Chinese Listening and Speaking; Advanced Chinese; Chinese Writing; HSK Training Chinese Culture Modules: Survey of China; Chinese Kung Fu; Chinese Traditional Music; Chinese Culture and Practice (Chinese Painting, Paper-cut, Calligraphy, Weave) Legal Basis Modules: Legal English; Principles of Law International Economic Law Modules: Chinese Business Law; International Business Transaction; International Investment Law & Arbitration; International Financial Law; International Trade and Human Rights.

CORE COURSES

International Economic Law

Course Description

The course of Introduction to Jurisprudence aims to guide students to understand and use legal sense in their studies and practice by introducing basic concepts, basic knowledge and basic principles of jurisprudence. This course is designed to familiarize international students with the fundamental knowledge of the science of law as well as the basic situation of legal construction in China, helping students to know the question of "what the law is?", in order to lay the foundation for their following study on specific laws and other subjects.

International Commercial Arbitration

Course Description

This course enables students to have a general understanding of the legal concepts and the basic legal system of international commercial arbitration, including (1) An Overview of International Arbitration; (2) Agreement to Arbitrate; (3) Applicable Laws; (4) Establishment and Organisation of an Arbitral Tribunal; (5) Powers, Duties, and Jurisdiction of an Arbitral Tribunal; (6) Conduct of the Proceedings; (7) Role of National Courts during the Proceedings; (8) Arbitration under Investment Treaties; (9) Award; (10) Challenge of Arbitral Awards; (11) Recognition and Enforcement of Arbitral Awards. The case study enables the students to put the knowledge of international commercial arbitration into practice and resolve specific problems they may encounter in foreign-related civil and commercial dispute resolution.

Conflict of Laws

Course Description

Problems arising when litigation occurs in more than one forum or when one or more fact element in a case occur in a jurisdiction other than the forum. More particularly, the course includes a study of the problems of recognition and enforcement of foreign judgements (state and nation) and choice-of-law problems in torts, contracts, property, family law, administration of estates, and business associations.

Principles of Civil Law

Course Description

This course is compulsory for all law students, aiming at familiarizing students with civil law and its basic theories for a preliminary understanding of the basic framework of civil law to lay a solid foundation for the study of other law course by training them in theoretical and logical thinking and improving their ability to practice law. It mainly introduces civil law as the core of administration of justice, person (natural person and legal person), the basic principles of civil law, legal relationship, legal transaction, agency and limitation.

Public International Law

Course Description

This course consists of two parts. The first part deals with the basic principles of Public International Law, including the concept, history, sources and codification of international law. It also introduces the rights and obligations of states, principles of international law, the recognition of states and government succession, the responsibility of states and other international legal subjects. The second part deals with different areas of international law and their related rules such as territory and non-territory issues, the law of the sea, air law, and outer space law, individuals and human rights, diplomatic relations, the law of treaties, international organizations, the peaceful settlement of international disputes, the international judicial system and the law of war.

Constitutional

Course Description

As a compulsory course for law undergraduates, this course introduces the basic principles and historical development of Constitutional Law, the fundamental rights and duties of citizens, the state structure and forms of government, the electoral system, the national flag, anthem and emblem.

Computer Science and Technology

计算机科学与技术

PROFILE

The College of Computer Science and Artificial Intelligence (CS&AI) at Wenzhou University, established in 1998, encompasses four departments: Computer Science and Technology (CS), Network Engineering, Data Science and Big Data Technology, and Artificial Intelligence. It boasts a robust faculty of 90 full-time members, 80% of whom hold Ph.D. degrees or senior professional titles. The faculty's diverse background includes extensive international education, enabling them to deliver lectures proficiently in both Chinese and English. Currently, the college hosts approximately 1000 Chinese students pursuing bachelor's and master's degrees, alongside 90+ international students and 23 postgraduate students. The undergraduate program in Computer Science is designed to impart a comprehensive understanding of computer theory, programming, and software design. It focuses on foundational theories, knowledge, skills, and methods, nurturing students' abilities in abstract thinking, design, and software implementation. This mission is integral to developing well-rounded professionals capable of applying these competencies in practical and innovative ways. Practical Teaching: The Computer Science program provides a multitude of course projects aimed at strengthening students' programming and design skills.Furthermore, the program offers internship opportunities, allowing students to acclimate to the working environment and rapidly accumulate practical work experience. It is important to note that all students must successfully present their Bachelor of Science thesis prior
to graduation.

DURATION	4 years

EDUCATION OBJECTIVES

The CS&AI program is dedicated to providing comprehensive education in computer software and applications. This program emphasizes the seamless integration of scientific theory with practical application, aiming to cultivate versatile talents proficient in research, design, and the development of applications.

JOB PROSPECTS

As a software engineer and programmer, you possess the capability to be employed by both IT companies and governmental departments. Numerous graduates from the class of 2020 have been offered opportunities to further their education with Ph.D. studies at renowned universities. Meanwhile, other graduates have successfully secured rewarding positions in China or their respective home countries. Core course:The main courses offered are Mathematics, Linear Algebra, Engineering Mathematics, C Programming, Data Structures and Algorithms, Computer Networks, Operating Systems, Principles of Database Applications, Advanced Algorithms, Java Programming, Multimedia Technologies, Web Application Development, C++ Programming, UML and Software Modeling, Machine Learning, Mobile Development, Software Engineering, Software Testing Techniques, and IT Project Management. Selective courses in majors such as Big Data and Artificial Intelligence are also available.

CORE COURSES

Main courses include Math, Linear Algebra, Engineering Mathematics, C Programming, Data Structures & Algorithms, Computer Network, Operating System, Principles of Database & Applications, Advanced Algorithms; Java Programming, Multimedia Technologies, Web Application Development, C++ Programming, UML & Software Modeling, Machine Learning, Mobile Development, Software Engineering, Software Testing Techniques, IT Project Management. There are also selective courses available in big data and artificial intelligence majors.

C programming

Instructor Yandan WANG

Course Description

Building on the fundamental of programming skills and pre-requisites of other courses, this course will teach you how to set up C programming environment, e.g. what IDE you can use to code and run your program, as well as how to test and debug your program. After this course, you'll be able to write the program by first planning and design what your program should do to solve the program. Here's the list of general contents you are going to learn: Basic syntax of C language, the decision making and loop statements, Functions, Arrays, Pointers, Structure data type and file writing and reading.

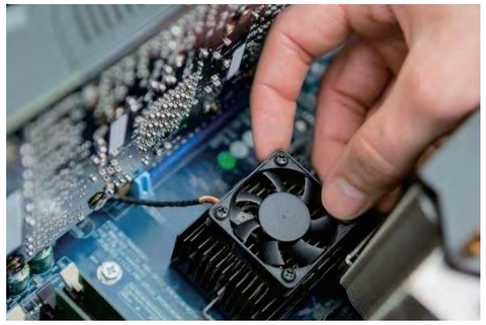
Please refer to this tutorial link
http://www.tutorialspoint.com/ C programming/index.htm for details

Data structure & Algorithms

Instructor Wingo WU

Course Description

Course Description Data structure & Algorithms is a fundamental course for Computer science major and other related major. This course provides an in-depth study of various data structures and algorithm analysis techniques. Main topics include lists, stacks, queues, binary trees, graph. It also introduces various search and sorting methods and algorithms. It also explores such algorithms and their application as DFS, Floyed, Dijkstra, AVL tree, B-tree and Huffman tree and Huffman coding. Upon completion, the students should understand most of the classical techniques on creating efficient data structures and algorithms. and will be able to apply them in follow-up courses such as Database, Software Engineering, Compiler, Operation System. It also cultivates student fundamental skills in programming and problem solving.



Operating System

Instructor Chengwen WU

Course Description

Operating systems are an essential part of any computer system. It provides a clear description of the concepts that underlie operating systems. As prerequisites, we assume that the student is familiar with basic data structures, computer organization, and a high-level language, such as C or Java. The hardware topics required for an understanding of operating systems are covered, we also include an overview of the fundamental data structures that are prevalent in most operating systems. For code examples, we use predominantly C, with some Java, but the reader can still understand the algorithms without a thorough knowledge of these languages.

Concepts are presented using intuitive descriptions. Important theoretical results are covered, but formal proofs are largely omitted. The bibliographical notes at the end of each chapter contain pointers to research papers in which results were first presented and proved, as well as references to recent material for further reading. In place of proofs, figures and examples are used to suggest why we should expect the result in question to be true. The fundamental concepts and algorithms covered in the book are often based on those used in both commercial and open-source operating systems. Our aim is to present these concepts and algorithms in a general setting that is not tied to one particular operating system. However, we present a large number of examples that pertain to the most popular and the most innovative operating systems, including Linux, Microsoft Windows, Apple Mac OS X, and Solaris. We also include examples of both Android and iOS, currently the two dominant mobile operating systems.

Main topics include Overview, Process management, Memory management and Storage management.

Chemistry

化学(师范)

■ PROFILE

Chemistry mainly studies the basic theoretical knowledge of chemistry and the basic operational skills of chemical experiments, including the chemical reactions and changes within a single substance and between multiple substances, understanding the mechanisms and processes of these changes, such as combustion of objects, rust of steel, food decay, and the process of grain brewing, all of which are chemical changes. By studying the processes of these changes, students can understand the reasons and mechanisms for their changes.

■ EDUCATION OBJECTIVES

This major cultivates talents with good scientific and cultural literacy, who can systematically and solidly master the basic knowledge, theories, and skills of chemistry, have innovative consciousness and practical ability, and can engage in scientific research, teaching, and other work in the field of chemistry and related fields.

■ PRACTICAL TEACHING

Inorganic Chemistry Experiments, Organic Chemistry Experiments, Analytical Chemistry Experiments, Physical Chemistry Experiments, Instrument Analysis Experiments. Dissertation, etc.

■ JOB PROSPECTS

Teacher in chemistry at the middle or high school

College laboratory coordinator

Chemistry curriculum designer

Educational program assessment coordinator

Teaching and learning center professional development provider

■ DURATION

4 years

Core Courses

Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, Pedagogy Foundation, Development and Educational Psychology, Application of Modern Educational Technology, Pedagogy of Chemistry, etc.

Inorganic Chemistry

Course Description

This course is an introduction to modern inorganic chemistry. Topics include principles of structure, bonding, and chemical reactivity with application to compounds of the main group and transition elements, including organometallic chemistry. This course is the first basic core course for the international students majored in chemistry. The course content can be divided into two parts. The first part is chemical principles including introduction, gases, thermochemistry, chemical kinetics, chemical equilibrium, acid-base equilibria, solubility-precipitation equilibria and redox reactions. The second part is the structure of matter including atomic structure, molecular structure, solid structure and complex structure.

This course plays an important role in strengthening and broadening international students' knowledge and ability structure. This course is also the foundation of successive courses of chemistry.

Organic Chemistry

Course Description

This course gives an introductionan to organic chemistry, focusing primarily on the basic principles to understand the structure and reactivity of organic molecules. Emphasis is on substitution and elimination reactions and chemistry of the carbonyl group. The course also provides an introduction to the chemistry of aromatic compounds. Carbon can form covalent bonds with itself and other elements to create a mind-boggling array of structures. In organic chemistry, we will learn about the reactions chemists use to synthesize crazy carbon based structures, as well as the analytical methods to characterize them. We will also think about how those reactions are occurring on a molecular level with reaction mechanisms. Simply put, organic chemistry is like building with molecular Legos.

Analytical Chemistry

Course Description

This course gives an introduction to analytical chemistry and an overview of important analytical methods and their range of application within detection of inorganic and organic compounds. Important analytical quantitative techniques from classical methods, electrochemical methods, spectrochemical / spectrophotometric methods, mass spectrometry and separation techniques are reviewed. The course also includes theory on sampling, analyses of real samples, risk assessment of chemical experiments, important steps and procedures in analytical chemistry, and evaluation/interpretation of results. The course gives an overview of important use of selected classical and instrumental chemical quantitative analytical methods and a short introduction to their basic theory. As a part of this course, a project work is also to be carried out; relevant topics will be announced at semester start. There will be an excursion at the end of the semester.

Civil Engineering

土木工程

EDUCATION OBJECTIVES

The program, provided by College of Civil Engineering and Architecture, aims to foster international students that are proficient in Chinese and English, familiar with and love Chinese culture, keen with international communication and cooperation.

JOB PROSPECTS

The program is designed to provide students with a broad-based and high-quality interdisciplinary education in the areas of structural and geotechnical engineering and construction management as well as practical training. Our students are anticipated to become well-rounded civil engineers who are ready to work on various fields, including building design and construction, urban infrastructure construction, construction management, investment and development.

PRACTICAL TEACHING

Practical training is provided in the following areas: civil engineering, measurement, construction methods, RC and steel structures. Through these practical exercises, students progressively become more familiar with the different aspects of civil engineering.

PROFILE

The college of Civil Engineering and Architecture (CCEA) at WZU was founded in 1984 with two disciplines: Civil Engineering and Architecture. CCEA has 3 institutions: (a) Institution of Geotechnical Engineering, (b)Institution of Green Buildings and Structural Engineering, and (c) Institution of Architecture and Urban-Rural Region Planning.

As one of the leading colleges/schools at WZU, the CCEA features the following: (a) State Innovation Center of Tideland Reclamation and Protection of Ecosystem, (b) State Key Laboratory of Soft Soil Foundation and Tideland Reclamation, (c) Municipal Key Research Center of Building Energy-Saving/Emission-Reduction and Disaster-Mitigation (d) Laboratory Education Center.

CCEA has advanced equipment and devices for research and education, undertakes 31 national projects, thus forming state/municipal innovation teams in terms of Soft Soil Foundation and Tideland Reclamation, Green Buildings and Structure Engineering, and Disaster-Mitigation.

DURATION

4 years

CORE COURSES

Structural mechanics

Course Description

Structural mechanics is an important basic course of civil engineering specialty, which is in the core position of the whole curriculum system, on the one hand it is based on higher mathematics, theoretical mechanics, material mechanics and other courses, on the other hand, it is the foundation of professional courses such as steel structure, reinforced concrete structure, soil Mechanics and Foundation. The task of this course is to further master the basic high years, basic principles and basic methods of planar rod washing structure on the basis of learning theoretical mechanics and material mechanics, to study the strength, stiffness, and stability of planar rod system structure, to understand the mechanical properties of various structures, In order to study the relevant professional courses as well as structural design and scientific research to lay a good mechanical foundation, training structural analysis and calculation and other aspects of the ability. The main contents of this course are: the geometric composition analysis of the rod system, the internal force and displacement calculation of the static structure and the super-static structure, the dynamic calculation of the influence line and the structure. In the design and construction of practical engineering, a large number of theories and methods of structural mechanics should be applied, and as a good engineer, it is necessary to understand and master structural mechanics profoundly.

Civil Engineering Construction

Course Description

Civil Engineering construction is a compulsory course for civil engineering majors and belongs to the core course of specialty. The main contents of the course include construction technology (earthwork, basic engineering, masonry engineering, reinforced concrete engineering, Prestressed concrete Engineering, structural installation engineering, waterproofing engineering, decoration Engineering and supporting engineering) and construction Organization (Introduction to construction organization, running water Construction organization, network planning Technology, Unit construction organization Design and construction organization general design) two parts of the content.

Foundation Engineering

Course Description

Basic Engineering is a compulsory course for civil engineering students, which belongs to the core curriculum of specialty, which mainly teaches the design theory and calculation method of common . Foundation including foundation design principle, shallow foundation, pile Foundation, Composite foundation, retaining wall, foundation pit Engineering, caisson and underground continuous walls, foundation treatment, Special Soil Foundation.

Machnical Engineering

机械工程

DURATION

4 years

■ PROFILE

The Mechanical Engineering (International) in Wenzhou University is constructed in accordance with international standard requirements of the Washington Accord (http://www.washingtonaccord.org/). In addition, in terms of the international engineering education concept, the CDIO (Conceive、Design、Implement、Operate) project teaching mode is adopted to cultivate talents. Currently, there are three major modules, namely: industrial automation，laser processing and robot, This major is dedicated to train mechanical engineers with world-class professional skills, cross-cultural understanding and global communication skills for satisfying great needs for international engineering talents.

EDUCATION OBJECTIVES

Graduates will be able to take up international career pathways in engineering related fields and professions; apply engineering principles to develop products and design processes; demonstrate proven ability to contribute to a professional team; apply lifelong learning skills to adapt to changing trends and challenges.

PRACTICAL TEACHING

One of the goals in our cultivating scheme is to train students to be able to analyze and solve practical engineering problems. Therefore, practical teaching is an essential part of the major which includes:

▲Internship ▲Physics experiments ▲Workshop practice

▲Curriculum for Design of Mechanical Principle

▲Curriculum for Design of Mechanical Design

▲Projects for Fundamentals of Mechanical Manufacturing

▲Electrical and electronics ▲Introduction to Artificial Intelligence

▲PLC Technology ▲Industrial Automation and Programming

▲CNC Machines and Programming

▲Hydraulic and Pneumatic Transmission

▲Machine Vision and Image Processing

In addition to these above mentioned courses (not all listed here), it is worth to mention that there will be a great proportion of practical teaching during Chinese language learning.

JOB PROSPECTS

Our graduates are involved in mechanical design and manufacturing, technical innovation, applied research, project management, sales and marketing, etc.

Main Orientations of Graduates Employment:

▲To businesses: mechanical design engineer, industrial robot application engineer, equipment engineer, mechanical process engineer, mold engineer, CNC engineer, product engineer, technical sales and management engineer;

▲To universities or scientific research institutions: Teacher and researcher;

▲International civil servant in the government;

▲University graduate student.

Core Courses

Engineering Graphics

Course Description

Engineering Graphics is an applied science that studies the drawing, expression and reading of engineering drawings. It is the technical language that engineering and technical personnel abide by in the process of design, manufacturing, and maintenance. The engineering Graphics course mainly studies the basic principles and methods of drawing and reading engineering drawings, and cultivates students' spatial imagination. It is a basic technical course with both systematic theory and strong practicality.

Mechanical Design

Course Description

This course focuses on the working principles and simple design methods of commonly used mechanisms and components, the principles of mechanism selection and component strength calculation and structural design, and the thinking methods of innovative design. After graduation, whether the students are engaged in mechanical product design or as equipment management and operation work, the course provides the basic knowledge necessary for common mechanisms, general components and transmission principles, equipment maintenance and fault analysis. Through the study of this course and the subsequent course design practice, students can be trained to initially have the ability to design general mechanical transmission devices, laying a solid foundation for future creative activities.

The Basics of Engineering Materials and Forming Technology

Course Description

This course is a comprehensive course involving blank material selection and forming methods and other professional knowledge. This course is the core course for the major of mechanical design and manufacturing, as well as the link between the basic and professional courses of the major, and establishes the foundation for students to learn follow-up professional courses and participate in professional practice.

Students are meant to learn the basic knowledge of engineering materials and forming technology, master the reasonable selection of commonly used mechanical parts and blank manufacturing methods, and develop the corresponding process route. Meanwhile, the engineering application ability can be improved through the study of the course.

International Trade

Course Description

International trade is a discipline of applied economics, which mainly studies international trade theory and policy, international business management, international business and global marketing, international trade risk analysis and avoidance, in addition, it also provides theoretical basis and analytical means for senior managers of enterprises to formulate international business strategies and relevant government departments to formulate international trade policies. Students studied this course should systematically master the basic theories of international economy and international trade, master the basic knowledge and basic skills of international trade, understand the development status of contemporary international economy and trade, and be familiar with the prevailing rules and practices of international trade.

BIOTECHNOLOGY

生物技术

PROFILE

Biotechnology is the area of biology that involves using living systems and organisms to develop or produce products or the technological application of such systems or organisms. Depending on the tools and applications, it often overlaps with the (related) fields of molecular biology, bioengineering, biomedical engineering, biomanufacturing, molecular engineering, and more. For thousands of years, humankind has used biotechnology in agriculture, food production, and medicine. In the late 20th and early 21st centuries, biotechnology has expanded to include new and diverse sciences such as genomics, recombinant gene techniques, applied immunology, and development of pharmaceutical therapies and diagnostic testing.

EDUCATION OBJECTIVES

To respond to the ever-increasing demand for well-trained international biotechnology professionals, our undergraduates are trained to possess solid theoretical knowledge of biology and experimental skills, modern biotechnology knowledge and skills, strong biotechnology research and development capabilities, and practical application abilities. Our undergraduates gain an international perspective by communicating and cooperating with international teams. The goal of this program is to cultivate teams comprising international professional and technical staff who are capable of performing high-caliber research and development in science and technology, technology development, and international trade and enterprise management in the field of biotechnology and its related disciplines.

PRACTICAL TEACHING	DURATION	JOB PROSPECTS
Scientific Research Training, International Communication, Professional Practice, Dissertation	4-years undergraduate program with a flexible system of three to six years; Bachelor of Science	Biological production, Inspection and Quarantine Technology, Biological Safety, Biotechnology, Pharmaceuticals

CORE COURSES

Calculus, Physics, Inorganic and Analytical Chemistry, Organic Chemistry, Instrumental Analysis, Biostatistics, Plant Biology, AI Biology, Biochemistry,Cell Biology, Microbiology, Genetics, Molecular Biology, Genetic Engineering Principles and Techniques, Fermentation Engineering Technology, Biological Separation Principle and Technology, Bioinformatics, Immunology Principle and Technology, Cell Engineering, Enzyme Engineering.

Microbiology

Instructor Qiongzhen CHEN

Course Description

The science of microbiology is all about microorganisms and how they work, especially the bacteria, a very large group of very small cells that have enormous basic and practical importance. Microbiology is also about diversity and evolution of microbial cells, about how different kinds of microorganisms arose and why. Microbiology embraces ecology, so it is also about where microorganisms live on Earth, how they associate and cooperate with each other, and what they do in the world at large, in soils and waters and in animals and plants. Microbiology encompasses numerous sub-disciplines including virology, parasitology, mycology, and bacteriology.

The science of microbiology revolves around two interconnected themes:(1) Understanding the nature and functioning of the microbial world, and (2) applying our understanding of microbial world for the benefit of humankind and planet Earth. As a basic biological science, microbiology uses microbial cells to probe the fundamental processes of life. In so doing, microbiologists have developed a sophisticated understanding of the chemical and physical basis of life and have learned that all cells share much in common. As an applied biological science, microbiology is at the forefront of many important breakthroughs in human and veterinary medicine, agriculture, and industry.

Biochemistry

Instructor Alan CHANG

Course Description

Biochemistry is mainly concerned with metabolism. One of the great unifying principles of modern biology is that organisms show marked similarity in their major pathways of metabolism, and this highlights the fact that all life has descended from a common ancestral form. For example, glycolysis, the metabolic pathway by which energy is released from glucose and captured in the form of ATP under anaerobic conditions, is common to almost every cell. It is believed to be the most ancient of metabolic pathways, having arisen prior to the appearance of oxygen in abundance in the atmosphere. The subject covers different pathways, ranging from the extraction of carbon and their simulation into organic compounds by a photosynthetic organism such as plants to the burning of glucose fuel for energy, degradation and removal of nitrogenous wastes and the synthesis of complex organic compounds such as carbohydrate and lipids by animals and human.

Cell biology

Instructor Peichao CHEN

Course Description

Cell biology is the study of cells and how they function, from the subcellular processes which keep them functioning, to the way that cells interact with other cells. Cell biology concerns itself with how different molecules are used by the cell to survive, reproduce, and carry out normal cell functions. Some organisms have only one cell, while others are organized into cooperative groups with huge numbers of cells. On the whole, cell biology focuses on the structure and function of a cell, from the most general properties shared by all cells, to the unique, highly intricate functions particular to specialized cells. An understanding of cells is therefore vital in any understanding of life itself.

The subject offered consists of a series of lectures that focuses on eukaryotic cells, with greater emphasis on animal cells. The topics covered included cell structures and organelles, gene expression in cell growth, cell signaling and how dysfunctional regulation in cell growth can lead to cancer in humans. In addition, there will also be a practical component where you will learn some basic techniques in cell biology.

温州大學
WENZHOU UNIVERSITY

Master Programs

- Applied Economics
- Law
- Master of International Chinese Language
- M.Ed. in English Teaching
- Master of Translation and Interpreting
- Computer Science and Technology
- Chemistry
- Material Science and Engineering
- Mechanical Engineering
- Electrical Engineering
- Biology (Chinese Program)
- Resources and Environment
- Oversea Chinese Studies
- Entrepreneurship Education

Applied Economics

应用经济学

PROFILE

Whether you're looking to add to your recently acquired economic or business degree, advance your current career, change industries or start your own business, the entrepreneurship management program at School of Business Wenzhou University is the right choice. Through two years' course study and one year dissertation training and practical training, students will expand their entrepreneurship knowledge and experience to acquire the skills needed to succeed in a global economy.

EDUCATION OBJECTIVES

This program aim at cultivating the skills to be an interdisciplinary talent who has international vision, cross-culture background, solid entrepreneurial management theories, and innovative problem solving capability.

DURATION

3 years

PRACTICAL TEACHING

100% of courses at WZU are conducted in English. Approximately 90 faculty members recruited from top universities, research institutes and companies from different countries worldwide. Many of our faculty have hands-on business experience as consultants, entrepreneurs, investors, advisors, board members, and executives.

JOB PROSPECTS

Entrepreneurship management program provides you knowledge about world cultures and societies, a treasured skill by employers worldwide that search for experts that can successfully manage multiple markets. This program also qualifies you for more prestigious job opportunities such as the role of an entrepreneur. You can even get into teaching at university level, get involved in research work, or even land jobs in governments and multilateral organizations.

CORE COURSES

International Trade

Instructor Lu WANG

Course Description

International Trade is the core course for the Applied Economics in Entrepreneurship Management Master Program. The main objective of this course is to enable graduate students to understand in a systematic manner the theories and practices in international trade and to enable them to conduct research in international trade areas in today's dynamic and competitive global environment. The course mainly provides updated cases about international trade such as Trade war between China and US, does refugees really a burden for Europe countries for graduate students to discuss according to international trade theories. Students are required to have basic knowledge in Economics and international trade before taking this course.

Data Analysis

Instructor Yi CHEN

Course Description

Data Analysis is the core course for the Applied Economics in Entrepreneurship Management Master Program. The course mainly introduces the basic statistics idea and the commonly used statistics concept, including data description, sampling statistics, confidence interval estimation, hypothesis testing, ANOVA, parameter estimation and regression analysis, and so on. The course aims to familiarize the students with the functions and methods of data analysis, provide instructions for using data analysis applications, such as EXCEL or SPSS, and give the students practice on applying data analysis to business. Also, the course requires students to apply data analysis methods in academic writing by covering some academic literature.

SME

Instructor Ying Wang

Course Description

SME is a core course designed for students in the Applied Economics in Entrepreneurship Management Master Program. The fast development of globalisation requires continuous innovation, and the role of SMEs becomes increasingly critical considering the weight of their contributions to the global economy. Most SME proprietors are entrepreneurs, and the innovative behaviours of SMEs are frequently unique and context dependent. Unfortunately, our understanding about SMEs is very limited, which makes managing SMEs difficult in most cases. This course involves studies of characteristics of SMEs, SME ownership and strategy, SME marketing, SME entrepreneurship, etc. This course aims to equip entrepreneurs with the knowledge they need to be successful, stimulate innovation in SMEs, and help SMEs to compete and pr

MNE and Global Management

Instructor Zhan WANG

Course Description

MNE and Global Management is a core course designed for students in the Applied Economics in Entrepreneurship Management Master Program. The main objective of this course is to enable students to understand in a systematic manner the theories and practices in international business and to enable them to conduct research in how multinational enterprises manage their global strategies and operations in today's dynamic and competitive global environment. This course discusses the external political, economic and legal environments facing multinational enterprises, focuses on strategies available to them to compete successfully in the global markets, and also covers their operational aspects such as managing global production and outsourcing. Students are required to have basic knowledge in Economics and Management before taking this course.

LAW
法学

PROFILE
The master degree program entitled International Law is designed for overseas students with interests in financial, investment , business, and commercial law in a transnational context. Through intensive coursework, students develop an intellectual toolbox for future careers in an age of economic globalization.

EDUCATION OBJECTIVES
The master degree program focuses on international law as well as transnational litigation and international arbitration. The degree program provides considerable scope for specialization, but also ensures that students see a wider context so as to allow them to be prepared to craft innovative solutions and think imaginatively about issues and challenges arising in an international business context.

PRACTICAL TEACHING
The master program will help students develop the ability of drafting of arbitration agreements, appointment and challenge of arbitrators, attending preliminary and evidentiary hearings. Also, written advocacy in international arbitration will be provided. We will provide students opportunities to put the newly acquired knowledge from the first section into practice.

JOB PROSPECTS
The master degree program will train students to seek for the position as advisers to governments, international organizations or NGOs, or experts on the multi-jurisdictional and global regulation of trade in goods, investment.

DURATION
3 years

CORE COURSES
Commercial Sales Law: Domestic and International, International Litigation and Arbitration, International Investment Law and Arbitration, International Criminal Law

Domestic and International
Instructor Yiyan ZHOU

Course Description

This course examines the law governing the domestic and international sale of goods as regulated by PRC Contract Law and the UN Convention on Contracts for the International Sale of Goods ("CISG"). The course will emphasize the use of statutory default rules to define the commercial relationship and to allocate commercial risks. Specific topics include acceptance and rejection of goods, contract interpretation in business transactions, formation of contract issues, including the issue of battle of forms, warranty liability, damage rules, risk of loss, and commercial impracticability. During this course, the solutions provided by the PRC Contract Law and the CISG will be compared. The course will also deal with contracts concluded via electronic means and will, to some extent, also examine consumer transactions.

International Litigation and Arbitration
Instructor Chuanfang ZHANG

Course Description

The course explores, in a litigation context, current developments in private international law, cross-border jurisdiction, international arbitration, foreign sovereign immunity, and human rights from both a Chinese and comparative perspective. The first part of the course involves the traditional reading and discussion of cases and other materials covering important issues involved in transnational litigation, including jurisdiction to prescribe, judicial jurisdiction of courts, international arbitration, recognition and enforcement of judgments, litigation against foreign governments, human rights, and transnational discovery. The last five weeks of the course consist of simulations that involve student submission of briefs and oral arguments of actual cases designed for the course.

International Investment Law and Arbitration
Instructor Xinhao MIAO

Course Description

This course will deal with both the substance of international investment law and the modern regime of international investment treaty arbitration. We will first examine the evolution of investor protection from custom to an institutionalized legal regime governed by multiple international instruments, including the ICSID and New York Conventions. We will then consider the substantive protections for foreign investors that are frequently found in bilateral investment treaties and similar instruments-including provisions on expropriation, fair and equitable treatment, full protection and security, and national treatment, as well as various exceptions or limitations on these obligations, particularly related to national security and other vital public policy interests. We will also examine the arbitration process, including jurisdictional issues, the structure of arbitration proceedings, the role of arbitrators and counsel, the relationship between contract and treaty claims, provisional measures, and enforcement of awards.

International Criminal Law
Instructor Zhiou WU

Course Description

This course consists of four sections. First, we will begin with a general introduction to the historical evolution of international criminal law over time, including a discussion of the development of the four primary crimes of “international concern” ▪ war crimes, crimes of aggression, crimes against humanity, and genocide. Second, we will focus on a number of Chinese domestic statutes that criminalize international conduct. These will include laws covering foreign bribery, antitrust and securities violations, and money laundering, piracy, terrorism, torture, and human trafficking. Third, we will examine the application of the Chinese Constitution and Chinese rules of criminal procedure to international criminal cases. Fourth, towards the end of the semester, we will examine more closely the evolution of international tribunals to prosecute crimes of “international concern” and learn more about the elements

Master of International Chinese Language

国际中文教育

PROFILE

We are committed to cultivating high-level, applied and dedicated professionals who can adapt to the international promotion of Chinese language and the spread of Chinese culture to the outside world in the new era; professionals that are also competent in a variety of teaching tasks. Degree holders should have high quality teaching skills, proficient Chinese as a second language, good cultural communication skills and cross-cultural communication skills. Through the perfect curriculum system, high-quality teaching content, unique research direction and diversified practice links, this major comprehensively cultivates students' awareness of the international dissemination of Chinese, as well as expanding students' knowledge of Chinese language and culture. It also promotes students' skills in teaching Chinese as a second language and improving their intercultural communication ability.

DURATION

3 years

EDUCATION OBJECTIVES

The Master's Degree of International Chinese Education is a professional degree that combines the teachings of international Chinese teachers. The main purpose is to cultivate the Chinese language skills, teaching skills and cultural and cross-cultural communication skills of high-level, internationalized and localized professionals who speak proficient Chinese as a second language. This will enable them to be competent in a variety of teaching tasks, as well as possessing the ability to adapt to international Chinese education work.

JOB PROSPECTS

Volunteer teachers of Chinese as a foreign language, Chinese teachers in international schools, working in cultural exchanges in relevant departments, schools, press and publishing, working in cultural management and enterprises, working at institutions in China and abroad.

PRACTICAL TEACHING

Teaching Assistants, Classroom Observation, Microteaching, Field

CORE COURSES

International Dissemination of Chinese Culture

Instructor Wenwen KAN

Course Description

This course aims to explore the forms of Chinese cultural communication. The students will study the strategies of international communication in Chinese culture within the wider concept of globalization. They will analyze the historical experiences and teachings of international communication within Chinese culture,combined with the rules of international language and culture communication. This will enhance their capacity of considering the implications and goals, the means and methods, the issues, the solutions, and the mechanisms associated to international communication within Chinese culture. The relationship between communication and Chinese cultural diplomacy, cultural industry and its economic model will also be discussed throughout the course

Observation and Practice of Chinese Skills Teaching

Instructor Juanman ZHENG

Course Description

In terms of teaching and learning, modern Chinese for the major of TCSL differs significanlty from that of the Chinese undergraduate program due to variances in these two professional discipline systems and the required professional qualities for each.It has brought forward various demands for the teachers and the students. The students in this class are getting ready to continue with the modern Chinese course for the TCSL Major. It accomplishes this through addressing teaching objectives, providing courses with excellent material, highlighting the importance of respect when teaching , teaching techniques, grading, and other factors.

Introduction to Intercultural Communication

Instructor Weijia MIU

Course Description

It seeks to aid students in comprehending cultural variety, enhancing cultural awareness, developing multicultural awareness, cultivating the capacity for critical thinking, mastering the skills of intercultural communication, and laying a firm foundation for students to achieve successful idea exchange and cultural communication in a cross-cultural context.

Second Language Acquisition Research

Instructor Yuxiang WANG

Course Description

This course's objectives are to examine various approches and theories of second language acquisition, to present students with a more complete and balanced theoretical pattern of second languange acquisition, and to assist students in developing the ability to use the pertinent theories of second language acquisition, linguistics, pyscholingustics, and sociolinguistics.The students will study language learning problems, improve the ability to use second language acquisition methods so as to solve problems in teaching Chinese as a foreign language, lay a good theoretical foundation for writing graduation thesis, and cultivate scientific research literacy for professional development.

M.Ed. in English Teaching

学科教学（英语）

PROFILE

Currently, the School offers 3 BA programs(English, Translation and Interpreting, and Japanese) and 2 MA pregrams(Master's program in Translation and Interpreting and Master's program in English teaching). Five research institutes are now under the leadership of the School, including the Translation and International Communications Center, the Comparative Literature and Intercultural Studies Center, the Overseas Chinese Affairs and Public Diplomacy Center, the Foreign Linguistics and Applied Linguistics Center, and the Silk Road Languages and Cultures Center.

EDUCATION OBJECTIVES

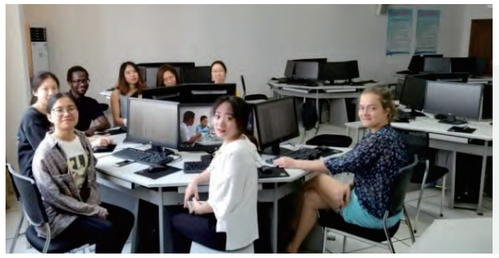
The Master Degree Program of M.Ed. in English Teaching combines the teaching of English language skills, teaching skills and cross-cultural communication skills. The main purpose is to cultivate high-level, internationalized and localized professionals, who will be competent in a variety of teaching tasks, as well as possessing the ability to adapt to English education work.

DURATION

3 years

JOB PROSPECTS

English teachers, cultural exchange jobs in relevant departments, schools, press and publishing, enterprises, or other institutions in China and abroad.



CORE COURSES

English Curriculum and Teaching Methodology, Research in K12 English Teaching, English Teaching Assessment and Testing, Literary Classics and Language Teaching, Principles of Translation, and so on.

English Curriculum and Teaching Methodology

Instructor Songhao LI

Course Description

This is the very first course regarding the basic knowledge of language teaching development and methods. The course contents include history, characteristics, nature and principles of various teaching methodologies; the roles of teachers, learners and learning environment in the course of teaching English; how to facilitate interaction in the classroom and how to make lesson plans.

Research in K12 English Teaching

Instructor Weiran WANG

Course Description

Through the analysis and introduction of the relevant theories of English teaching, this course allows students to understand the current hot language teaching topics at home and abroad, understand the reform direction of English teaching, and deeply understand the value and teaching methods of English teaching. The course also observes and analyzes the current mainstream classroom teaching at home and abroad, and guides students to conduct simulation teaching training, so as to truly master the practical operation methods and design strategies of foreign language classrooms.

English Teaching Assessment and Testing

Instructor Jiguang MAO

Course Description

The course aims to enable students to understand the basic theory and specific operation methods of language testing through the introduction and demonstration of the main links in the examination process, so as to help them improve abilities to manage the language examination in future teaching practice. The course also introduces the latest theoretical research and practice in the field of language testing at home and abroad, combined with the actual practice of basic English education and the learning characteristics of primary and secondary school students, so that learners can understand the macro and micro functions of language tests, understand the overall design principles of the test, master the test methods of individual language abilities and skills, and grasp the main links such as propositions, test administration, test analysis, and test information feedback.

Literary Classics and Language Teaching

Instructor Xinde LI

Course Description

The course aims to guide students to systematically learn the basic methods of literary history and literary appreciation in English-speaking countries, cultivate students with certain literary skills, enable students to master the relevant common sense of English literature, and then improve the ability and appreciation of reading original literary works, so as to improve the comprehensive ability of language and enhance students' comprehensive literacy in language teaching in the future.

Master of Translation and Interpreting

翻译

PROFILE

The Master of Translation and Interpreting (MTI) at WZU is a full-time postgraduate degree program that allows you to specialize in an area relevant to your professional translating and interpreting ambitions.

This degree combining translation studies and courses with elective courses from Introduction to Translation, Translation Theory and Techniques, Translation of Chinese Classics to Language Service and Project Management, offers you a complementary and comprehensive language education tailored to your interests. Our academics provide you with real-world translating and interpreting projects in professional settings, which gives you opportunities to apply the knowledge and skills you've learned through critical analysis, independent research, project management, and teamwork.

EDUCATION OBJECTIVES

To satisfy need of more talent of international business and economics, and a promotion of soft power of regional culture grounded upon Wenzhou, meanwhile, serving Zhejiang, marching to everywhere in China and even the world, the program aims to cultivate high-level language-service talent who support the leadership of the Communist Party of China (CPC), keep a correct outlook on world, life and values, as well as have the sense of mission and responsibility to participate in constructing international discourse system and enhancing the international competitiveness of the country. Moreover, you will develop a broad international vision, a higher level of intercultural communicative competence, a solid English and Chinese bilingual foundation, a wider knowledge of humanities and social sciences and professional ethics.

DURATION

3 years

JOB PROSPECTS

You'll graduate with the knowledge, skills and appropriate certifications required to work as a professional translator or interpreter, or work in translation research, teaching, management and other fields in foreign affairs, trade, industrial technology, press, publishing, etc. in China and beyond. You also have an option to pursue a research pathway toward PhD studies.

CORE COURSES

Translation Theory and Technique

This course aims at introducing the theory and techniques of translation between English and Chinese. It refers to and focuses on the common translation standards, principles, and translation techniques. While combing theory, the course mainly focuses on students' practice in translating rather than the teacher's explanation of the theory or techniques of translation. This student-centered course will help the students improve the ability as well as translation knowledge.

Interpretation Theory and Technique

This course seeks to provide a structured syllabus and an overview of interpreting accompanied by exercises being developed for the course. It is meant to serve as a practical guide for interpreters and as a complement to interpreter training programs, particularly those for students preparing for interpreting in international governmental and business settings. Those exercises which deal with lexicon and syntax focus on expanding the student's range of expressions in order to build vocabulary to the level needed for interpreting. Through this course, the students will also learn interpreting techniques, such as how to get the message through listening, memorize more information, conduct logical analysis and take notes in interpreting. Simulation training of interpreting is also an indispensable part.

Computer-aided Translation

This course aims to answer the call of this digitalized era and the call of the translation industry. It will introduce various computer applications in translation. After taking this course, students are expected to have the know-how of translation technology, hands-on experiences of mainstream tools in corpus construction and analysis and computer-aided translation. Topics covered in this course include history of machine translation, corpus, corpus construction and analysis, applications of computer technology in translation theory and practice, localization and globalization, etc.

English Translation of Chinese Classics

English translation of Chinese classics aims to spread the values of Chinese culture and the spirit of Chinese civilization to the world. The translator should set up "concept of cultural translation" and rationally use domestication and foreignization. On the basis of translation practice, construction of translation theory should be further strengthened to highlight the elements of traditional Chinese culture. This course requires students to translate Chinese classics concerning language and literature, history, science, religion, geography, politics, etc. into English, aiming at building a bridge for the cultural exchanges between China and western countries.

Computer Science and Technology

计算机科学与技术

PROFILE

This academic discipline was established in 2006 and has made significant progress over the years. In 2011, we were granted the authority to award master's degrees in computer application and technology. In 2020, this discipline was ranked 91st nationally in the ARWU rankings, which is a significant improvement from its ranking in 2016. The research quality in this field is high, and it has produced some renowned scholars, including Changjiang Scholars, Chinese Academy of Sciences Hundred Talents Program, National Excellent Youth Program, Provincial Ten Thousand Talents Program, and Provincial Thousand Talents Program. The discipline focuses on both fundamental research and application development to benefit the local governments or companies. In the past four years, the potential threshold has reached 0.59 in the discipline's ESI rankings, making it one of the most promising fields to enter the ESI's top 1% globally.

JOB PROSPECTS

As a software engineer and programmer, you have the potential to work for both IT companies and government departments. Many 2020 graduate students have received offers to pursue their Ph.D. studies at prestigious universities, while the rest have secured fulfilling positions in China or their home countries.

EDUCATION OBJECTIVES

As a student of computer science, you are expected to learn about the theory and practical application of technology. This includes designing software, thinking critically and working independently or as part of a team. You will also need to communicate complex ideas to different people and apply your skills to solve complex problems in advanced areas of computing.

DURATION

3 years

CORE COURSES

Computer Graphics

Instructor Jiawei XU

Course Description

This course provides a lot of practical content, covering the latest developments and achievements in computer graphics in recent years, and is accompanied by a large number of programs written for the purpose of Human-Computer Interaction (HCI), particularly in the field of Game Programming. This course is divided into 18 lectures, which comprehensively and systematically explains the basic concepts and related technologies of HCI. Firstly, this course summarizes the computer graphics, then explains the object representation, algorithm and application of two-dimensional graphics, and the related technology, modeling and transformation of three-dimensional graphics, and then introduces the content of hierarchical modeling, animation technology, spline curve representation, texture processing, and finally the lighting model, color model and interactive input method. For further information, please refer to the textbook:

Sebastiano M. Cossu, Beginning Game AI with Unity, Apress, 2021.

Principle & Application of Artificial Intelligence

Instructor Jiawei XU

Course Description

Previous treatments of Artificial Intelligence (AI) divide the subject into its major areas of application, namely, natural language processing, automatic programming, robotics, machine vision, automatic theorem proving, intelligent data retrieval systems, etc. The major difficulty with this approach is that these application areas are now so extensive, that each could, at best, be only superficially treated in a book of this length. Instead, I have attempted here to describe fundamental AI ideas that underlie many of these applications. My organization of these ideas is not, then, based on the subject matter of their application, but is, instead, based on general computational concepts involving the kinds of data structures used, the types of operations performed on these data structures, and the properties of control strategies used by AI systems. I stress, in particular, the important roles played in AI by generalized production systems and the predicate calculus. The notes on which the book is based evolved in courses and seminars at Stanford University and at the University of Massachusetts at Amherst. Although certain topics treated in my previous book, Problem solving Methods in Artificial Intelligence, are covered here as well, this book contains many additional topics such as rule-based systems, robot problem-solving systems, and structured-object representations.

Computer Mathematics

Instructor Chaoli ZHANG

Course Description

This course introduces the basic mathematical foundations of basic machine learning concepts. You will learn how these concepts are applied to a broad range of machine-learning problems in modern computer science. This course consists of 18 lectures in total and is split into two parts. Part I lays the mathematical foundations, including but not limited to linear algebra, matrix decomposition, probability distributions, Optimization, etc. And Part II applies the concepts built from Part I to a set of fundamental machine learning problems using Python, including linear regression, dimensionality reduction, classification, etc. After completing the course, it will allow you to develop a deeper understanding of the mathematical foundations in machine learning and to acquire a familiarity with the mathematics of application areas where computers can solve otherwise intractable problems.

Chemistry
化学

JOB PROSPECTS

You'll get to experience working in a research laboratory with other research students. Depending on the nature of your project, you may prepare and test specimens followed by post-test examination by many testing techniques such as electron microscopy and surface analysis techniques. Many successful graduates go on to do PhD research.Many of our graduates go on to work for high-profile employers within sectors such as pharmaceuticals, chemicals,inorganic chemistry,organic chemistry,polymer chemistry,analysis chemistry,energy, oil and gas, environment, and biotechnology.

Recent graduates have taken up roles including chemical engineer, energy marketing and trading analyst, graduate engineer, process engineer, and technology risk associate within many companies.

DURATION: 3 years.

PROFILE

Our Chemistry Master program provides advanced training in modern chemistry. It will give you an overview of chemistry topics as practised in modern research. You will receive speciality training in areas of organic, inorganic, polymer physical chemistry, physical and analytical chemistry. This course provides advanced training in modern organic and medicinal chemistry from conception to production of novel drugs. It enables you to understand and experience the way modern small molecule medicine is developing. You will gain hands-on.

EDUCATION OBJECTIVES

Through this course you will achieve a high level of research competence. The research project and dissertation will provide you with training in tackling and communicating the results of a significant research problem in chemistry.

You will also gain experience in relevant aspects of laboratory work.

You will gain specialist knowledge and understanding through lectures, seminars and workshops. You will also have taught laboratory classes where you'll perform carefully designed and tested experiments.

FACILITIES AND ENVIRONMENT

You'll have access to a great range of facilities and equipment during your time at Wenzhou University, including:

1. A state-of-the-art Pharmaceutical Chemistry Lab and Energy Materials Lab, as well as a Frontier Materials Lab and Leather-Making Lab, providing access to a range of small-scale unit operations and the latest equipment
2. A recently upgraded center of instrumental analysis laboratory
3. Modern bench-top experimental equipment an interactive video teaching system
4. A dedicated computing suites, running specialized industry-standard computer software.

CORE COURSES

Scientific Paper Writing

Instructor Shiqiang ZHAO

Course Description

The educational concept of this course is to take students as the center and improve students' ability of combining theory with practical application. Therefore, the following training objectives are set: 1. Let students understand the writing methods and norms of chemical papers. 2. Apply the theory learned to practice and improve the quality of paper writing by reviewing and analyzing the paper. 3. Improve students' knowledge application ability by consulting materials and defending courses.

Advanced Organic Chemistry

Instructor Yuanzhi XIA

Course Description

Advanced organic chemistry is to further discuss the structure theory and reaction mechanism of organic matter on the basis of basic organic chemistry, and theoretically study the structure and reaction process of organic matter at a higher level. The structure, reaction, mechanism and their relationship of organic compounds are discussed emphatically. By discussing the principle, rule, characteristic and application of organic reaction, and introducing the design method and selection principle of organic synthesis process route, the students can improve their ability to analyze and solve practical problems, and lay a solid knowledge foundation for their future work or further study.

Statistical Thermodynamics

Instructor Jicang WANG

Course Description

This course covers the following topics: laws of thermodynamics, heat capacities, distribution laws, partition functions, and chemical equilibrium and kinetics. We will illustrate how to extract thermodynamic information from the partition function and why statistical thermodynamics plays a vital link between quantum theory and chemical thermodynamics. (3 lecture hours a week).

Tentatively, the midterm exam will cover chapters 4 to 13. Chapters 4 to 10 are about the classical thermodynamics, which have been largely discussed in 59-240 and lay the foundation for the rest of this class. Chapters 11 to 13 are about Statistical Thermodynamics.

Material Science and Engineering

材料科学与工程

PROFILE

Our Materials Design and Engineering Master program provides an understanding of the role and application of materials including polymer , inorganic materials and composite materials. It also examines the science of materials properties. Learn about materials from a science and an engineering point of view Work in a research laboratory with other research students Complete an industry-linked research project.

FACILITIES AND ENVIRONMENT

You'll have access to a great range of facilities and equipment during your time at WenZhou University, including:

1. A state-of-the-Frontier Materials Lab and Leather-Making Lab, providing access to a range of small-scale unit operations and the latest equipment
2. A recently upgraded center of instrumental analysis laboratory
3. Modern bench-top experimental equipment an interactive video teaching system
4. A dedicated computing suites, running specialised industry-standard computer software.

MATERIAL SICENCE AND ENGINEERING MASTER

The study of materials lies across the engineering and science disciplines. This course focuses on tackling practical industrial problems through knowledge and analytical skill. The insight you develop will bridge the gap between science and engineering.

This course is suitable if you have a science or engineering background. The broad nature of this study means that our graduates go into a variety of roles in a range of industries.

JOB PROSPECTS

You'll get to experience working in a research laboratory with other research students. Depending on the nature of your project, you may prepare and test specimens followed by post-test examination by many testing techniques such as electron microscopy and surface analysis techniques. Many successful graduates go on to do PhD research.Many of our graduates go on to work for high-profile employers within sectors such as ceramic, polymer, composite, pharmaceuticals, chemicals, energy, oil and gas, environment, and biotechnology.

Recent graduates have taken up roles including material engineer, chemical engineer, energy marketing and trading analyst, graduate engineer, process engineer, and technology risk associate within many companies.

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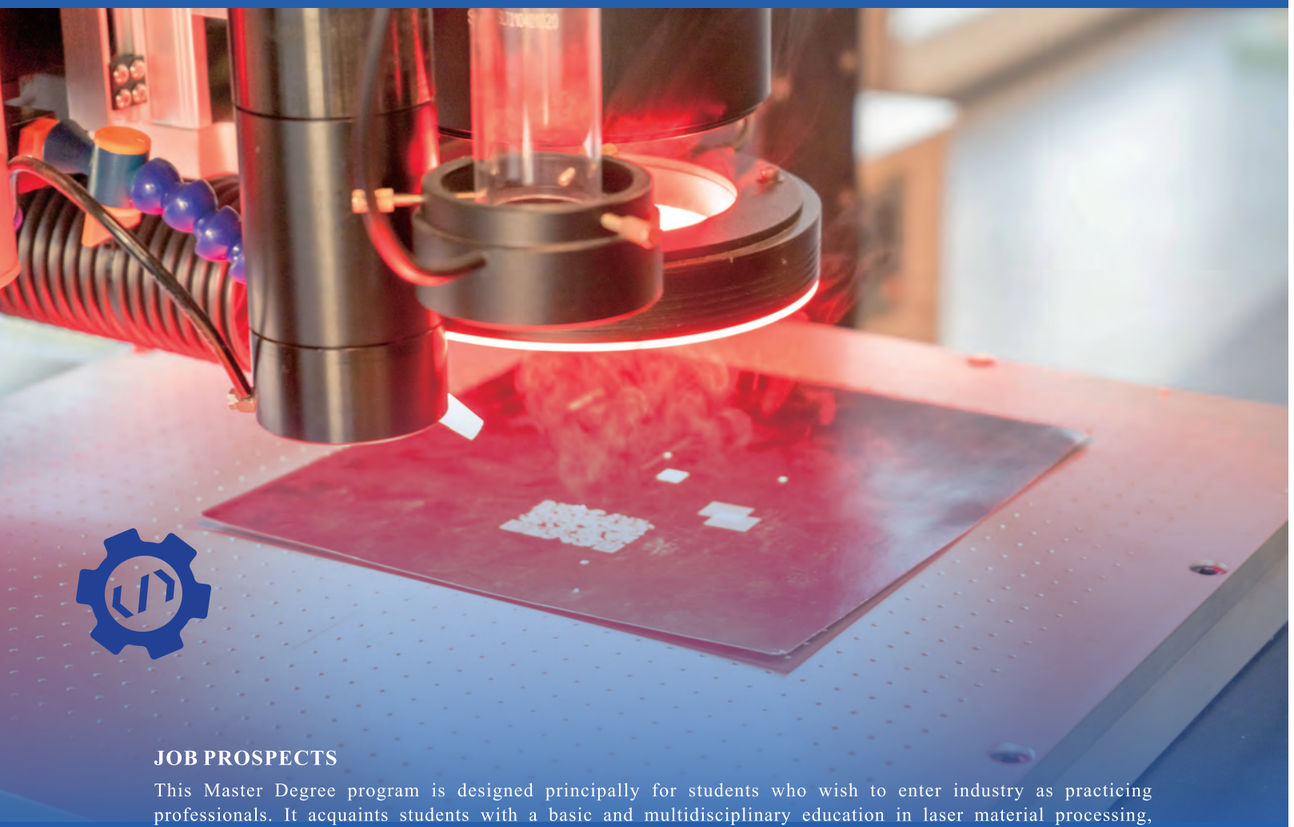
Energy Materials and Chemistry

Instructor Shiqiang ZHAO

Course Description

Energy chemistry, as an important branch of chemistry, is an important scientific and technological basis for mastering the comprehensive utilization of coal, understanding non-coal mineral energy, popularizing knowledge of new and renewable energy, and achieving scientific utilization of energy and sustainable development. It uses the theory and technology of chemistry and chemical engineering to solve the problems of energy conversion, energy storage and energy transmission, so as to better serve the human economy and life. Chemical changes are accompanied by changes in energy, and the use of energy is essentially the conversion process of energy forms. Energy chemistry realizes the conversion and storage of energy directly or indirectly through chemical preparation material technology due to its chemical reaction.

Mechanical Engineering
机械工程



JOB PROSPECTS

This Master Degree program is designed principally for students who wish to enter industry as practicing professionals. It acquaints students with a basic and multidisciplinary education in laser material processing, industrial robots, optoelectronic devices, digital factory and manufacturing, automatic intelligent manufacturing system. Our students are anticipated to be competent in tackling engineering problems in reality and undertaking mechanical engineering and management jobs, capable of technology innovation, managing or starting enterprises to serve economic and social development.

PRACTICAL TEACHING

Almost all of our postgraduates are involved in a research project. Most research activity in ISTCB-LPR is organized around our world-class research laboratories which support a variety of experimental, computational, and analytical activities. Most students have opportunities to practice in companies, institutions, and other internship units to train necessary engineering skills.

DURATION

3 years.

PROFILE

The College of Mechanical and Electrical Engineering at Wenzhou University originated from the Mechanical Teaching and Research Department established in 1985. It evolved into College of Mechanical Engineering in 2000 and was renamed as College of Mechanical and Electrical Engineering in 2006. This college is a key engineering faculty that the university is significantly developing. It offers a master's degree in mechanical engineering and a professional master's degree in mechanics. In 2016, it was designated as a Class B first-class discipline in Zhejiang Province's 13th Five-Year Plan and again in 2023 under the 14th Five-Year Plan. In 2022, it received a B+ rating from the Times Higher Education Subject Ranking, and its engineering discipline entered the top 1% globally in the ESI ranking, marking it as one of the university's key disciplines.

The college currently focuses on 5 research directions: laser processing theory and equipment, advanced manufacturing and robotics, intelligent operation and maintenance and health management, mechanical and electrical equipment and fluid control, and new energy and intelligent vehicles. It collaborates extensively with renowned universities and research institutions in the USA, Russia, South Korea, Singapore, and other countries, especially in fields related to Wenzhou's National Independent Innovation Demonstration Zone and the China (Wenzhou) Laser and Photoelectric Industry Cluster. The college boasts national and provincial-level scientific research platforms, including a national-level international science and technology cooperation base, and several Wenzhou city research platforms. It has key technological innovation teams in Wenzhou, focusing on manufacturing systems and automation engineering, and laser processing and optoelectronic devices.

The college has 140 faculty members, including 99 full-time teachers. Among these, 16 hold senior professional titles, and 35 are associate seniors, with senior title holders accounting for 51.5% of the full-time faculty. 91.9% of full-time teachers have doctoral degrees, and 41.4% have overseas study or work experience. The college has overseen 60 national-level scientific research projects, including 4 key projects (such as the National Natural Science Foundation of China Joint Fund Key Project, the Intergovernmental International Science and Technology Cooperation Key Special Project and the National 863 High-Tech Development Program). It has received more than 10 provincial and ministerial scientific and technological awards(ranked 1st), including a China Patent Gold Award and 3 first-class provincial awards.

Relying on the national international science and technology cooperation base, the college is committed to cultivating high-level mechanical engineering professionals with moral integrity, intellectual ability, physical fitness, aesthetic sense, and labor skills. These professionals are expected to have an international perspective and innovative spirit, serving the equipment manufacturing industry in South Zhejiang, North Fujian, East Jiangxi, the Yangtze River Delta Economic Belt, and the West Coast Economic Zone of the Strait.

Upon graduation, you will:

1) Master advanced techniques and modern machine tools in mechanical engineering field.

2) Analyze, interpret, and apply the information obtained by experiment, computation, or analysis, or available in the literature.

3) Translate practical mechanical engineering problems into an analytical or numerical solution, or to experimental investigation.

4) Apply knowledge, facts, and theories immediately in your work outside the classroom.

CORE COURSES

1) Theory of Method of Mechanical System Modeling
2) Light-Matter Interaction
3) Modern Control Theory

Theory of Method of Mechanical System Modeling

Course Description

System modeling is a major course of manufacturing informatization technology. It mainly help student's to master the basic methods of using computer to simulate mechanical system strength and motion feature. Therefore, students can apply simulation technology skillfully. It builds foundation for working on analysis, design and optimization of mechanical system in the future. The course mainly explains finite difference method and finite element method, and requires students to master the basic theories, basic knowledge of numerical calculation, and the application of associated software as well as obtain the basic ability of system modeling and analyzing.

Light-Matter Interaction

Course Description

This course is delivered by theory teaching and accompanied by complemented experiment demonstration. Through this course, students are supposed to understand the physical characteristic of laser, basic knowledge of interaction of laser and materials, and modern laser manufacturing methods. Moreover, students learn the history, researches, prospect and development of the use of laser in modern material manufacturing.

Modern Control Theory

Course Description

This is a basic course in automation major. This course and another course named "Automatic control principle" form the core theoretical basis of automation major. Moreover, modern control theory is the required knowledge for people who work on automation. This course helps students to understand and strengthen the concept of state space in linear system. Besides, students will understand the system stability, which is the key concept for this subject. Also, students will be able to master the key methods such as controllability and observability, status feedback and state estimation and so on.

Electrical Engineering

电气工程

PROFILE

Electrical engineering represents the national level master's sections in both the "12th Five-Year Plan" key disciplines in Zhejiang Province and the "13th Five-Year Plan" first-class disciplines. The major is one of a key development discipline at Wenzhou University. Electrical engineering and automation majors are designated for the national first-class undergraduate professional construction pilot, and they pass through the Ministry of Education engineering education professional certification.

Three distinct discipline directions:

(1) Power Electronics and Power Transmission : special power technology and application, power electronics testing technology, green power conversion and control technology.

(2) Electric Motors and Electrical Appliances: electrical theory and intelligent electrical technology, new photo-electronic light sources and devices, motor transmission and control.

(3) Electrical Theory and New Technology: photo-electronic functional devices and digital detection technology, electronic devices and circuit design, photo-electronic intelligent detection technology.

The program employs more than 60 teachers consisting of the National 100 Million Talents, the Zhejiang Province block economic transformation and upgrading experts, the Zhejiang Smart Grid low-voltage electrical technology team for key scientific and technological innovation, the Zhejiang Province coastal engineering special power technology innovation team, and Chinese contemporary inventors. Among the national, provincial, and municipal levels, it is built with 13 scientific and technological innovation platforms. Including the low-voltage electrical technology innovation service platform that is a joint of the national electrical digital design technology with the local engineering laboratory at Wenzhou. In the past 5 years, it has won once the second prize from the National Science and Technology Progress Award, once the first prize and once the second prize from the Ministry of Education's Science and Technology Progress Award, once the Chinese Patent Prize, twice the second prizes from Zhejiang Province's Science and Technology Progress Award, and special award from the 10th Invention and Entrepreneurship Award.

DURATION

3 years

CORE COURSES

New Energy Technologies

Instructor Fuhua LI

Course Description

Designed for postgraduates, this course makes an introduction to emerging energy technologies, aiming at providing students with a scientific understanding of new energy generation technologies in response to climate change and energy crisis. This course first focuses on the fundamental processes of generating energy and storing energy in these new technologies, involving solar energy, hydrogen energy, ocean energy, biomass energy, wind energy and geothermal energy. It manages to make students comprehend the characteristics of these technologies. Based on the fundamental comprehension, it brings latest published research achievement to share and discuss with students, and further to encourage students to develop new ideas.

Smart Electric Apparatus and Control

Instructor Liang SHU

Course Description

This course is mainly focus on the principles and applications of smart electrical apparatus, including the basic concepts of smart apparatus (Circuit breakers, electric contactors, relays, UPS, etc.), the functions, the systematic design, and the smart control methods. The course is divided into 8 parts. In part 1, the basic concepts of smart apparatus and the applications are introduced. In part 2, the basic classification, functions and control methods of primary equipment of smart apparatus are discussed. In part 3, design, smart sensing and control of electric apparatus are demonstrated. Applications of finite element method will be discussed to show how electromagnetic devices can be designed and optimized via advanced numerical methods. Also, different smart control methods are demonstrated to show the procedures of controller design to optimize the dynamic performance of different circuit breakers and electromagnetic devices. Advanced sensing methods and principles will also be discussed to help students to complete the design and control loops of smart apparatus. In part 4, principles of electromagnetic compatibility (EMC) and electromagnetic interference (EMI) will be discussed. Testing, standards, and testing procedures of EMC and EMI will be demonstrated.

Numerical Analysis

Instructor Hezhu SHAO

Course Description

Numerical Analysis provides graduate students with basic numerical computation methods on the one hand, but also focuses on the latest developments in computing technology, such as artificial intelligence and big data science, etc. In this course, students will learn techniques such as solving systems of linear algebraic equations, function interpolation, function approximation and fitting, numerical integration and differentiation, numerical solution of nonlinear equations and systems of equations, solving matrix eigenvalue problems, and ordinary differential equations numerical solutions, and other techniques. The software platform we use is Mathematica, and students will learn basic programming methods. Most students will get good hands-on programming experience and an understanding of basic theoretical computational methods, and this class also helps students to broaden their horizons of cutting-edge computational techniques. The textbooks we use are self-published and will be selected from well-known domestic and international textbooks, from which we will learn from the best in order to adapt to the learning abilities and needs of our students.

Reference books include:

Elements of Numerical Analysis with Mathematica by John Loustau,Computational Physics: Problem Solving with Computers by Rubin H. Landau, Manuel J. Páez, and Cristian C. Bordeianu

Biology (Chinese Program)

生物学

PROFILE

Biology, also known as life science and bioscience, is a natural science that studies all aspects of life from empiricism, including the origin, evolution, distribution, structure, development, function, behavior, interaction with the environment, as well as biological taxonomy. Biology is a science that studies the structure, function, occurrence and development of organisms (including plants, animals and microorganisms), and it is a part of natural science. The purpose is to clarify and control life activities, transform nature, and serve the practice of agriculture, industry and medicine.

CORE COURSES

Biology, Molecular Biology, Biochemistry, Advanced Hydrobiology, Aquatic Environmental Toxicology, Microbiology, Zoology, Cellular Immunology, etc

CONTACT

For questions about the program:
Name: Zengling Ma
Email: 59585210@qq.com
Phone: 13736756639

EDUCATION OBJECTIVES

- Systematically master the basic biological theory and specialized knowledge as well as necessary experimental skills, be familiar with the development trend of the research field, have innovative consciousness and independently engage in scientific research and teaching in the field of this discipline, or have the ability of technology and product development, and have strong academic communication and cooperation ability with others;
- Have strong computer application ability; be able to read the literatures of the subject skillfully in English, and have the ability to write Chinese and English scientific research papers and make international and domestic academic reports;
- Have a healthy body and good psychological quality.

JOB PROSPECTS

Education, academic research, laboratory technician, biopharmaceutical, biotechnology company, etc.

PRACTICAL TEACHING

Teaching practice, social practice

DURATION

3 years.

Advanced Hydrobiology

Course Description

Advanced hydrobiology is the major course for the specialty of hydrobiology or environmental engineering. This course aims at providing the engineering students with the knowledge of limnology, coupled with freshwater and marine biology. The students should grasp the morphology and classification of the aquatic organisms, including plankton, nekton, neuston, benthos, and periphyton, and master the relationships between them and the living environment. The students can gain ability to engage in biology and ecology research, aquaculture, as well as environmental science.

Advances in Applied Microbiology Technology

Course Description

Advances in Applied Microbiology Technology is a compulsive course for Master of Science in microbiological Biology. This course mainly introduces the basic theory and basic knowledge of applied microbiology, and introduces the advances in applied microbiology in industry, agriculture, food, medicine, pharmaceuticals, environmental protection, energy utilization and other fields. According to the study of this course, students must master the basic theory and basic knowledge of applied microbiology, and they should be familiar with the research progress of applied microbiology in many fields such as industry, food, medicine, pharmaceuticals and environmental protection. Furthermore, students must master the common methods used in the applied microbiology and know how to obtain and study the beneficial microorganisms and apply them in certain fields.

Resources and Environment (Chinese Program)

资源与环境

PROFILE

Environmental engineering belongs to a second-level discipline under the Department of Environmental Science and Engineering in the Department of Engineering. It is an emerging comprehensive and marginal discipline that comprehensively applies natural sciences, social science principles and engineering techniques to coordinate environment and development, and to protect and improve environmental quality. The Master of Environmental Engineering in Wenzhou University was established in 2014. The main research directions include (1) water treatment technology, including natural water restoration and waste water treatment; (2) ecological restoration technology, including ecological restoration of polluted water bodies, sediments and soils; (3) environmental application of chemical technology, including the technology research and development, practice and promotion in the chemical green synthesis, waste plastics recycling, environmental functional materials and catalysts.

EDUCATION OBJECTIVES

The master's degree program of environmental engineering is oriented to the needs of environmental protection industry, combined with the future development of environmental protection industries and local environmental protection needs in order to cultivate applied and compound high-level engineering technology and management talents who are of solid foundation, comprehensive quality, strong engineering practice ability and certain innovative ability in the environmental engineering fields for government environmental protection departments and other relevant enterprises and institutions.

DURATION

3 years.

PRACTICAL TEACHING

The content of the practice can be decided by two tutors through consultation or determined by the training unit. After the completion of professional practice, graduate students shall complete a professional practice summary report of no less than 5,000 words, which includes the main work of professional practice, development process and methods, achievements and gains, etc.

JOB PROSPECTS

Environmental engineering has great potential for development, which provides a broad space to develop for professional graduates. The employment direction of environmental engineering is as follows: 1. Environmental protection departments at all levels of government; 2. Planning departments, construction management departments, design and research institutes, environmental engineering companies, state-owned enterprises and other institutions; 3. Research institutes, universities and colleges.

CORE COURSES

Progress in Environment Pollution Control Technology

Instructor Hualin CHEN

Course Description

Based on the training objectives of environmental engineering, it mainly introduces the frontier dynamics of major disciplines in the field of environmental engineering, to familiarize students with the international frontiers and development history of relevant research fields, to enable students to understand the hot issues of modern environmental engineering disciplines and to enable students to master the latest research results and applications at home and abroad. The situation, as well, deepens students' cognition and understanding of professional knowledge, cultivates students' interest in scientific research, and provides a basis for students to develop graduation thesis.

Solid Waste Disposal and Recycle

Instructor Jun LI&Qi WANG

Course Description

This course teaches us how to use advanced technologies for solid waste treatment and disposal, the corresponding development will be introduced in detail. By the class multimedia teaching and discussion between the teacher and the students, the main topics on how to operate the municipal incinerator, how to reuse waste sludge by making construction materials, how to clean up the waste gases from the composting plants and transfer stations, and how to recycle the industrial solid waste such as fly ash, will be discussed. Cost and environmental impact based on the analyses of engineering project examples for solid waste treatment and disposal will be discussed.

Modern Instrumental Analysis

Instructor Qi WANG&Qiang KE

Course Description

"Modern Instrumental Analysis" covers the fundamentals of instrumentation and provides a thorough review of the applications of this technique in the laboratory. The class covers five major sections: Overview, Sampling, Evaluation of Physical Properties, and Thermal Analysis; Spectroscopic Methods; Chromatographic Methods; Electrophoretic and Electrochemical Methods; and Combination Methods, Unique Detectors, and Problem Solving. Each section has a group of chapters covering important aspects of the titled subject, and each chapter includes applications that illustrate the use of the methods.

Principle and Processes of Water Pollution Control Course

Instructor Jibo XIAO

Course Description

This course is required for graduate students of environmental engineering for the master degree. It covers water pollution constituents, measurements indexes, principles and processes of water pollution control, including physical, chemical, aerobic and anaerobic treatment, nitrogen and phosphorus removal, advanced treatment, tailwater recovery and reuse, sludge treatment, disposal and reuse, etc. Besides, projects are introduced on municipal sewage, industrial park wastewater, high organic content wastewater, chemical wastewater, metallurgical wastewater, dyeing wastewater, pulp and paper wastewater.

Oversea Chinese Studies

华侨华人学

PROFILE

The interdisciplinary degree in Overseas Chinese Studies at Wenzhou University leverages its master's degree programs in Chinese History, Education, Applied Economics, Law, and Computer Science and Technology. It offers four research directions: Overseas Chinese History, Chinese Language Education, Overseas Chinese Economy, and the Protection of Overseas Chinese Rights and Interests. The program also plans to utilize computer science and technology for interdisciplinary integration, undertaking projects such as developing and constructing an Overseas Chinese database and big data research related to Overseas Chinese affairs. In the future, it aims to broaden its interdisciplinary scope by incorporating fields like Environmental Ecology, Architecture, and Aesthetics into Overseas Chinese Studies.

JOB PROSPECTS

The graduates of the Overseas Chinese Studies program primarily find employment opportunities in various fields, reflecting the interdisciplinary nature of their education. Key employment directions include:

1. Foreign-related departments such as Overseas Chinese Affairs Offices, Immigration Bureaus, Consular Departments of Ministries of Foreign Affairs, and Immigration and Exit-Entry Administration Departments;
2. International organizations (featuring a multicultural and multilingual background, familiar with Chinese immigrant communities – a new generation of Chinese descent);
3. Professional talent in Overseas Chinese studies, aiming for further doctoral studies;
4. Engaging in entrepreneurship in global fields related to Overseas Chinese, including law, economics, technology, and culture.

PRACTICAL TEACHING

During their studies, students are required to participate in a two-week teaching practice activity, completing related work in accordance with the teaching practice component and writing a summary of their teaching experience. For courses such as "Overseas Chinese Studies," "Regional Social History of Qiaoxiang," "Comparative Studies on the History of Overseas Chinese in Fujian, Guangdong, and Zhejiang," "Cultural Anthropology," and "Oral History and Field Research," students must arrange at least one week of cultural inspections and social surveys. They are also expected to write academic survey reports that meet established standards.

CORE COURSES

History of Overseas Chinese

Course Description

As an academic category with high inclusivity, the field of Overseas Chinese History, under the norms of historical theory and methodology, will study topics such as the immigration history of Overseas Chinese; the social and cultural history of Overseas Chinese communities; the regional social history of hometowns; Overseas Chinese associations; Chinese schools, media, and ethnic groups; ethnic relations; immigration; and diaspora policies. Regarding research methods, emphasis is placed on collecting and excavating primary historical documents, conducting social surveys and oral history research, and paying attention to the borrowing and dialogue of theories from related disciplines such as anthropology, sociology, and political science.

Chinese Merchant Economy

Course Description

The Overseas Chinese interact closely with the economy of their hometowns and are the most active region for Chinese merchant capital. In 2020, Wenzhou was approved as the "Pilot Zone for Comprehensive Development of Chinese Merchants and Overseas Chinese in China." This field will be based on the economic and social development needs of Zhejiang and Wenzhou, researching Overseas Chinese merchants, enterprises, capital, and investment management under economic theory and methodology. It involves the study of Overseas Chinese economy and its interaction with local economic and social development, as well as the role of Chinese merchants in domestic and foreign investment and Sino-foreign trade, thereby assisting Overseas Chinese to better participate in the historical process of Chinese-style modernization.

Chinese Language Education

Course Description

Focusing on Europe, this field carries out overseas Chinese language education, teaching, and theoretical research, with global Chinese schools and overseas Chinese youth as research subjects. It explores the development status and trends of Chinese language schools, overseas cultural transmission, Chinese identity recognition, the development of information technology for Chinese language education, the quality evaluation of Chinese language education teaching, and the construction of databases for Chinese language schools. By further expanding overseas research bases and building a collaborative platform for Chinese language education domestically and internationally, establishing a database of case studies in Chinese language education, and constructing a theoretical system for the assessment of Chinese language schools, this field aims to promote the innovative development of Chinese language education.

Protection of Overseas Chinese Interests

Course Description

Guided by the frontier issues in the field of Overseas Chinese rights protection, research is conducted on overseas interests protection, foreign-related legal systems and working mechanisms, overseas consular protection, overseas judicial assistance, overseas humanitarian rescue mechanisms, foreign-related enterprise management, legislative research, international investment, and dispute resolution mechanisms for Overseas Chinese business and civil matters. This includes research on Overseas Chinese legal systems and working mechanisms, international tax law and corporate compliance, personal safety protection abroad, legal rights maintenance, humanitarian rescue, intellectual property protection, property safety, rights and interests of returning Overseas Chinese investors, property protection, pension insurance, and the study of preferential policies and measures for Overseas Chinese-funded enterprises.

Entrepreneurship Education
创业教育

PROFILE

The Master's degree program in Entrepreneurship Education, administered by College of Innovation and Entrepreneurship Wenzhou University, is designed to cultivate interdisciplinary entrepreneurial talents equipped with a broad international perspective, a solid knowledge foundation, and practical skills for initiating and managing businesses. This program fosters a sharp business acumen to navigate complex business environments both domestically and internationally. Rooted in the regional economy of Wenzhou, it seamlessly integrates global business resources from the Wenzhounese community, placing a significant emphasis on experiential learning through hands-on business initiation and operation.

In the realm of business education and management, students receive guidance from mentors within and outside the university. All courses are conducted in English, utilizing original English textbooks, handouts, and handbooks. This ensures a comprehensive and authentic learning experience in the field of entrepreneurship.

JOB PROSPECT

Upon successful completion of this program, students will be well-prepared to tackle real-world business scenarios. They have the option to pursue careers as professionals in accounting firms, law firms, stock companies, or consultancies. Alternatively, they may choose to contribute to the field of entrepreneurship education by joining the faculty of higher education institutions.Chinese, including law, economics, technology, and culture.

PRACTICAL TEACHING

The program places significant emphasis on fostering the practical abilities of students.The practical teaching process is facilitated through the utilization of Wenzhou University Innovation Space (at the national level), and over 60 off-campus entrepreneurship practice platforms. Students will have the opportunities to systematically engage in the complete operational process of entrepreneurial projects, allowing them to master the core operational aspects.

CORE COURSES

Entrepreneurship Theory and Practice

Course Description

Entrepreneurship in Education provides an understanding of the nature of entrepreneurship related to public/private/for profit and non-profit educational and social organizations. The course focuses on issues of management, strategies and financing of early stage entrepreneurial ventures, and on entrepreneurship in established educational organizations. Students will learn the fundamentals of business plan design and development.

Marketing for Entrepreneurs

Course Description

Marketing for Entrepreneurs addresses how to design and implement the best combination of marketing efforts to carry out a firm's strategy in its target markets. Specifically, this course seeks to develop the student's (1) understanding of how the enterprise can benefit by creating and delivering value to its customers and stakeholders, and (2) skills in applying the analytical concepts and tools of marketing to such decisions as segmentation and targeting, branding, pricing, distribution, and promotion.

Technology Strategy

Course Description

Technology Strategy is designed to meet the needs of future managers, entrepreneurs, consultants and investors who must analyze and develop business strategies in technology-based industries. The emphasis is on learning conceptual models and frameworks to help navigate the complexity and dynamism in such industries. This is not a course in new product development or in using technology to improve business processes and offerings. The class will take a perspective of both established and emerging firms competing through technological innovations, and study the key strategic drivers of value creation and appropriation in the context of business ecosystems.

温州大學
WENZHOU UNIVERSITY

Doctoral Program

Chemistry

Chemistry
化学

Discipline Overview

Chemistry discipline originated from the chemistry education of Wenzhou Normal University founded in 1958. Wenzhou University launched the master's degree in organic chemistry in 2003, the master's degree in chemistry in 2011 and the doctoral degree in chemistry in 2021. The chemistry discipline has experienced the construction of the most important discipline in the 11th Five-Year Plan and the 12th Five-Year Plan, the first-class discipline in the 13th Five-Year Plan (Class A) and the first-class discipline in the 14th Five-Year Plan (Class A) in Zhejiang Province.

Discipline Team

The discipline has a team of high-level talents including dual-appointed academicians, external academicians, national millions of talents, members of the Royal Society of Chemistry, national-level overseas distinguished professors, national-level overseas youth distinguished professors, experts with special allowances from the State Council, and new century talents from the Ministry of Education.

Scientific Research

The scientific research strength of chemistry discipline is strong. The basic research advantages are remarkable in the direction of nano-carbon and carbon energy chemistry. And the application research characteristics are distinctive in the aspect of degradable materials and high-end ink, functional polymers and photoelectric materials and devices. In recent five years, the discipline team published more than 1,000 high-quality papers on Nature Sustainability, Nature Catalysis, Nature Communications, Science Advances, Journal of the American Chemical Society and Angewandte Chemie International Edition, among which more than 50 papers are highly cited and hot and a single paper has been cited for more than 2,000 times.

Duration: 4 years

CORE COURSES

Frontier of Modern Chemistry

Instructor Shulei CHOU

Course Description

This course is a comprehensive knowledge of professional which is about Chemistry. The latest research progress of chemical disciplines at all levels are introduced in the form of lectures, including electrochemical and electroanalytical chemistry, catalysis technology, the greenization of the production of fine chemicals, functional complexes, the synthesis and activity of pharmaceutical intermediates, nano science and technology and so on. The creation of this course is designed to expand students' knowledge, to make them understand the dynamics of today's cutting-edge of chemistry and the development of technology, to stimulate students' interests in learning, to cultivate students' ability of innovative thinking, and to lay the foundation for future scientific research in chemical and chemical production.

Modern Analytical Techniques

Instructor Yifei YUAN

Course Description

Modern Analytical Techniques is a required course for chemistry majors, and it is an important part of analytical chemistry. "Modern Analytical Techniques" mainly describes the analytical methods, principles, testing techniques and spectrum analysis techniques of some specific substances, such as High Performance Liquid Chromatography (HPLC), Diffraction of X-rays (XRD), X-ray photoelectron spectroscopy (XPS), Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM), Fluorescence Spectrum (FS), Nuclear Magnetic Resonance Spectrum (NMR) and Mass Spectrum (MS).