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Study in WZU

Application Guide





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BACHELOR PROGRAMS

International Economi Business Administrati Law ····· Chinese Language and Computer Science and Civil Engineering Chemistry (Normal) Machnical Engineerir Biotechnology Mathematics and App

MASTER PROGRAMS

Applied Economics -Finance Law ····· Teaching Chinese to M.Ed. in English Tea Master of Translation Computer Science an Electronics & Inform Civil and Hydraulic H Chemistry Material Science and Mechanical Engineer Electrical Engineerin Electronics & Inform Biology (Chinese Prog Resources and Enviro

DOCTORAL PROGRAM

Chemistry

NON-DEGREE PROGRAM Chinese Language Lea



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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.









2023 INTERNATIONAL CATALOG





Why WZU

Scholarship Prospects

Affording study in China is easier for the outstanding students when selected for scholarships from China Scholarship Council, Zhejiang Province, and our university.

Affordability

With government scholarship opportunities and cost of living reasonable allows for you to plan your finances over the length of your studies.

Online Learning

Experience Chinese education while you are away with up-to-date virtual learning tech.

Smart Classrooms

Online learning is offered using the latest internet teaching technologies found in over 55 classrooms that ensures you can study anywhere in the world.

Program Subjects

Pursue your studies from many different program options such as science, business, law, engineering, computer science, language learning and more.

Learning In English

Over 17 undergrad and graduate degree programs are taught in English with professors having international experience making your study easier while you learn Chinese Language.

Distinguished Campus

There are national investments in technology, research bases, and labs-all inside a beautiful campus with prestigious facilities and surrounded by mountains and natural views.

Career Prospects

Set yourself apart through hands-on practice and industry-academic joint experiences with many possibilities of internships.

Nestled within picturesque mountains, vast waterways, and the heart of a vibrant coastal city, Wenzhou University (WZU) offers unparalleled educational opportunities for students who are looking to study within a rich cultural environment and benefit from a strong academic tradition. Of the more than 2,500 colleges and universities located throughout China, WZU ranked 139th in China according to 2022 U.S. News & World Report Best Global Universities Rankings. Meanwhile, WZU ranked 3rd in Zhejiang province according to the Times Higher Education World University Rankings 2021.



- Doctoral Degree-granting Institutions
- Key Universities Jointly Established by Zhejiang Province and Municipalities
- Teacher Education Base of Zhejiang Province
- The First Batch of International University Construction Project in Zhejiang Province
- Office of the State Council
- Overseas Chinese Research Base



2023 INTERNATIONAL CATALOG

• Pilot Universities of the Ministry of Education's Outstanding Engineer Education and Training Program

• The First Batch of Chinese Language Education Bases Established by The Overseas Chinese Affairs





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STUDY AT WENZHOU UNIVERSITY



The Area Covered by the Library	52,229 square meters
Number of Paper Books	2.4722 million
The Number of E-books	1.2243 million
Types of Databases	97
Daily Open Hours	15
Hours Open All Year Round	504

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

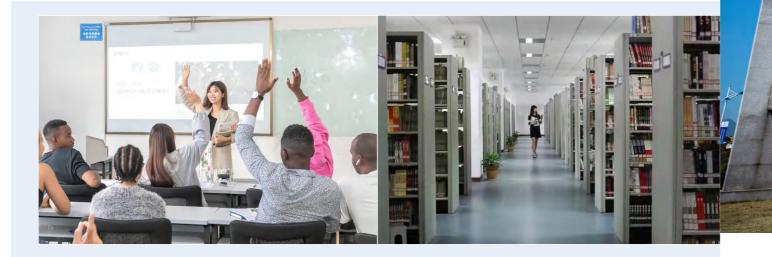
Excellent faculty: 2231 teaching staff, including 1416 fulltime teachers (939 doctors, accounting for 66.31%)

Specialized disciplines: 1 first-level discipline doctoral degree authorization point, 18 first-level discipline master's degree authorization points, and 17 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.





WENZHOU UNIVERSITY



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.



WENZHOU UNIVERSITY

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 ADJEL, 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.

Polytechnical University.



At Wenzhou University, I have enjoyed access to an immense collection of academic resources coupled with very supportive teachers, firsthand 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.

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



Business school Bachelor program: International Economics and Trade Business Administration Master program: Applied Economics Finance	Law school Bachelor program: Law Master program: Law	College of International Education Bachelor program: Chinese Language and Literature Master program: Teaching Chinese to Speakers of Other Languages	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 Techno Master program: Computer Science and Techno Electronic & Information Engineering (Computer Science Technology)
College of Chemistry and Material Engineering Bachelor program: Chemistry (Normal) 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 Electrical Engineering Electronic Information (Electronic Science & Technology)	College of Life and Environmental Science Bachelor program: Biotechnology Master program: Biology Resources and Environment	College of Mathematic and Physics Bachelor program: Mathematics and Applied Mathematics (Normal)

- WENZHOU UNIVERSITY



ABOUT WENZHOU UNIVERSITY



TUITION AND FEES

Bachelor Programs	Liberal Arts : RMB 18,000 / Year
Dachelor Programs	Science & Engineering : RMB 20,000 / Year
Master Programs	Liberal Arts : RMB 20,000 / Year
Master Programs	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
Application Fee	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

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

F/

Application Materials

- 1. Graduation certificate of highest education level attained. English and be notarized.
- 2. An official transcript from the college you have recently attended. English and be notarized.
- 3. Study plan and Two Recommendation letters (only for Master applicant)
- 4. Certificate of English proficiency test
- 5. Applicants to Chinese programs must pass HSK grade 5 or above;
- 6. A photocopy of your passport.
- 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:
 - at the University and will not process renewals before the registration date.
 - 2. Photocopy of your visa and residence permit in China.

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ADMISSION DOCUMENTATION

*Graduation certificate should be in Chinese or English. If not, it should be translated into Chinese or

* Official transcript should be in Chinese or English. If not, it should be translated into Chinese or

*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)

7. Bank statement (normally the balance is enough for your first year tuition fee and accommodation fee)

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

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





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!

	anteen		Campus Card	â	Bank		Post Office
P	arking	7	Souvenir Shop		АТМ	(Information
B	US Station		Supermarket		Toilet	6	Public Bicycles

Library & Administration

Yuying Library F3Administration 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
- College of Architecture & Civil Engineering C1
- College of Chemistry & Materials Engineering B2
- 2 College of Fine Arts and Design D2
- School of Foreign Studies B5
- 1 College of Humanities B5
- College of International Education B3
- College of Law and Political Scie B6 B6
- College of Life & Environmental Science B2
- 9 College of physical Education A5
- College of Computer Science and Artificial Intelligence D1
 College of Mathematics & Information Science D2
- College of Mathematics &
- 5 College of Marxism B5
- 6 College of Mechanical & Electrical Engineering C1
- 6 College of Music B5
- 9 College of Teacher Education D3



WENZHOU UNIVERSITY MAP

Residence & Canteens

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

 WENZHOU UNIVERSITY

 Tel: +86-577-86680971 Web: http://cic.wzu.edu.cn/
 - E-mail: admission@wzu.edu.cn Application: http://study.wzu.edu.cn

Bachelor Programs

nternational Economics and Trade
Business Administration
Law
Chinese Language and Literature
Computer Science and Technology
Civil Engineering
Chemistry (Normal)
Machnical Engineering
Biotechnology

Mathematics and Applied Mathematics (Normal)



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.

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.

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.

CORE COURSES

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 practiceoriented 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.

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

This program is to prepare students to use fluent Chinese at business or workplace settings, and effectively understand business information written in Chines, while providing a solid foundation in international trade and to cultivate their capacity to use Chinese in professional business settings. This program includes courses about Chinese language, international trade, and market management. The language and major courses are taught using both English and Chinese; general courses are taught in English.

Applicants must have at least a high school degree.

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

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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:

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, selfintroduction, habits, hobbies, etc.

Pre-Intermediate Levels

Removal of Chinese phonetics assistance in courseware, prerequisite to possess a baseline level of reading skills. Learn common business expressions, hold general conversations at workplace and social settings, and express personal

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.

opinions clearly.

Comprehensive Chinese

Course Description

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

WENZHOU UNIVERSITY

Intermediate & Advanced Levels:

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.

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.

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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

College of Computer Science and Artificial Intelligence (CS&AI) of Wenzhou University was founded in 1998. It has four departments: Computer Science and Technology (Shorted as CS), Network Engineering, Data Science and Big Data Technology, Artificial Intelligence. It has 90 full-time faculty members with 80 percent of Ph. D Degree or senior professional titles. Many lecturers have oversea education background and can lecture in both Chinese and English. At present besides about 1000 Chinese students studying for bachelor and master degree, there are 70 foreign students are studying for bachelor degree and 15 studying for master degree.

The mission of the undergraduate programme in CS major is to systematically learn the basic theory, basic knowledge, basic skills and methods in computer theory, computer programming and software designing, and develop students' ability to apply them in abstraction, designation and implement of software.



PRACTICAL TEACHING

The CS program offers many course projects to consolidate programming and design skills. In addition to this, internship opportunities are available to enable students to familiarise themselves with the working environment and gain work experience much faster.

Note: all students are required to present their BS.c. Thesis before graduation.

DURATION

4 years

EDUCATION OBJECTIVES

The CS&AI focuses on the overall training of computer software and computer applications in the whole process of training students, emphasizing the mutual integration of scientific theory and practical application and striving to create "complex" talents who can adapt to research, design, and application development.

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.

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.

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

29



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.



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.

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.

Chemistry (Normal) 化学(师范)

PROFILE

With the curriculum of Chemistry (Normal) major built around in-depth chemistry studies and practical teachings, this major will give its students a robust education that culminates in a career teaching chemistry at the middle or high school level. Students interested in a bachelor in Chemistry (Normal) must have two things: a love for chemistry and a passion for teaching youth. Students in this major would build a well-rounded foundation of inorganic, organic, analytical, and physical chemistry in their chemistry classes. Education classes focus on optimizing lessons for future students' psychological needs and development, discipline and classroom management in secondary school.



EDUCATION OBJECTIVES

international talents rich of noble ethics and educational teaching, teaching and research and management in secondary schools and other educational institutions.

PRACTICAL TEACHING

This major aims at training high quality developable and Inorganic Chemistry Experiments, Organic Chemistry Experiments, Analytical Chemistry Experiments, Physical feelings, with cultural heritage and scientific spirit, solid Chemistry Experiments, Instrument Analysis Experiments, chemical knowledge and good chemical core literacy, Experimental Study on Middle School Chemistry, Chemistry mastering teachers' professional skills, reflective and Classroom Teaching Skills Training, Educational Probation, innovative spirit, and be able to engage in chemistry Educational practice, Educational research, Dissertation, etc.

JOB PROSPECTS

DURATION

4 years

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

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.

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.

Analytical Chemistry Course Description

Core Courses

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.

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/). And 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 of 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

We focus on combination of theory teaching and practical teaching. CDIO concept is implemented throughout the curriculum. Precisely designed projects help our students to develop real-world problem-solving and communication skills, as well as teamwork spirit. Our great cooperative relationship with enterprises allows students to visit and practice in many enterprises.

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

Why do we bother with learning mechanical drawing? Isn't everything done with high powered 3D solid modeling software? While CAD systems have revolutionized the mechanical design process, a large amount of information is still conveyed using traditional 2D mechanical drawings. These 2D drawings are not generated by hand but rather extracted from 3D solid models. However all the rules, standards and techniques of traditional mechanical drafting still apply and that is where this course impacts your engineering career. Students should be aware that this course is for all intents and purposes a course in communication, specifically the graphic language. The objective of the course is to teach students to communicate using graphic techniques. This involves learning to "read" or interpret the information contained in a 2D mechanical drawing.

Mechanical Design Course Description

The course of mechanical design is one of the main technical basic courses in the study of mechanical generality. Its mission is to enable students to master the basic theory, basic knowledge and basic skills of mechanism and mechanical dynamics, and have the ability to formulate mechanical motion program, analyze and design mechanism preliminarily. It has the function of enhancing the student's ability to adapt to the mechanical and technical work and developing creativity in the overall situation of training high -level engineering and technical personnel.





We think of Robotics as the science of building devices that physically interact with their environment. The most useful robots do it precisely, powerfully, repeatedly, tirelessly, fast, or some combinations of these. The most interesting robots maybe even do it intelligently. This course will cover the fundamentals of robotics, focusing on both the mind and the body.

Course Description

Computer-aided design also known as computer-aided design and drafting (CADD), is the use of computer systems to assist in the creation, modification, analysis. or optimization of a design. Computer Aided Drafting describes the process of creating a technical drawing with the use of computer software. CADD software is used to increase the productivity of the designer, improve the quality of design, improve communications through documentation, and to create a database for manufacturing. CADD output is often in the form of electronic files for print or machining operations. CADD software uses either vector based graphics to depict the objects of traditional drafting, or may also produce raster graphics showing the overall appearance of designed objects.

3D Printing

Course Description

3D printing, also known as Additive Manufacturing and Rapid Prototyping Manufacturing, refers to processes used to create a three-dimensional object in which layers of material are formed under computer control to create an object. Objects can be of almost any shape or geometry and typically are produced using digital model data from a 3D model or another electronic data source such as an Additive Manufacturing File. But how does 3D printing work? This course will tell you the processes of 3D printing by the examples of making a 3D Baymax.

Robotics

Course Description

Computer Aided Engineering

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

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. Cell biology is the study of cells and how they function, from One of the great unifying principles of modern the subcellular processes which keep them functioning, to the biology is that organisms show marked similarity in way that cells interact with other cells. Cell biology concerns their major pathways of metabolism, and this itself with how different molecules are used by the cell to highlights the fact that all life has descended from a survive, reproduce, and carry out normal cell functions. Some common ancestral form. For example, glycolysis, the organisms have only one cell, while others are organized into cooperative groups with huge numbers of cells. On the whole, metabolic pathway by which energy is released from glucose and captured in the form of ATP under cell biology focuses on the structure and function of a cell, anaerobic conditions, is common to almost every cell. from the most general properties shared by all cells, to the It is believed to be the most ancient of metabolic unique, highly intricate functions particular to specialized pathways, having arisen prior to the appearance of cells. An understanding of cells is therefore vital in any oxygen in abundance in the atmosphere. The subject understanding of life itself. covers different pathways, ranging from the extraction The subject offered consists of a series of lectures that focuses of carbon and their simulation into organic comon eukaryotic cells, with greater emphasis on animal cells. The pounds by a photosynthetic organism such as plants to topics covered included cell structures and organelles, gene the burning of glucose fuel for energy, degradation expression in cell growth, cell signaling and how dysfunctional and removal of nitrogenous wastes and the synthesis regulation in cell growth can lead to cancer in humans. In of complex organic compounds such as carbohydrate addition, there will also be a practical component where you and lipids by animals and human. will learn some basic techniques in cell biology.

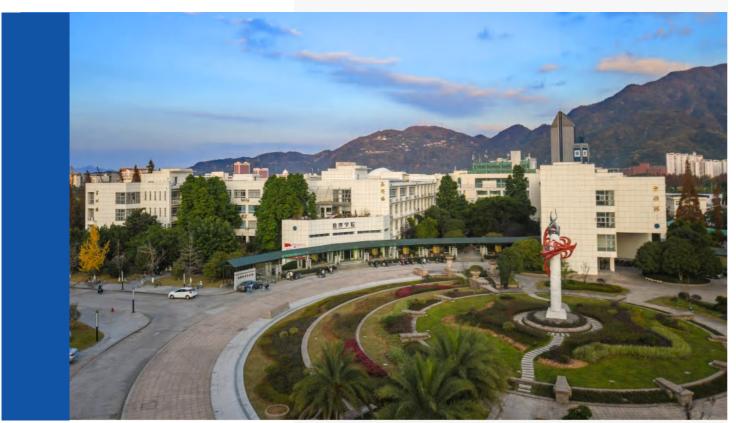
CORE COURSES

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.

Cell biology Instructor Peichao CHEN Course Description

Mathematics and Applied Mathematics (Normal)

数学与应用数学(师范)



PROFILE

This degree major aims at training students to master the basic theories and methods, be able to use mathematical knowledge, use computers to solve practical problems, and initially possess the ability of mathematical scientific research and innovation.

JOB PROSPECTS

This major aims at training students to engage in mathematics teaching, research and management in middle school and other educational institutions.

DURATION

4 years

EDUCATION OBJECTIVES

Not only can this major cultivate excellent primary and secondary school mathematics researchers with solid basic knowledge of mathematics and mathematical education, but also innovative talents with solid basic knowledge of mathematics and strong mathematical innovation ability.

PRACTICAL TEACHING

The College of Mathematics and Physics maintains tight and friendly relations with the local middle schoolin Wenzhou, At the moment there are more than 30 middle schools that have become our students' practicebases, making it possible for our students to go on probation or internship every semester. What's more, we have signed cooperation agreements with a few companies and enterprises, and you can also have arinternship there if you want

CORE COURSES

Calculus

Course Description

Differential calculus of functions of one variable, withapplications.functions, graphs, continuity, limits, derivatives, tangent lines, optimization problems.

CalculusII

Course Description

Integral calculus of functions of one variable withapplications.Antiderivatives, definite integrals, theFundamental Theorem of Calculus, methods ointegration, areas and volumes, separable differentiaequations.

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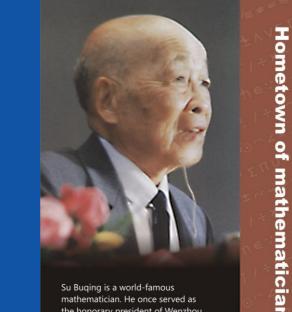
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Calculus III

Course Description

Probability theory is a branch of mathematics with uncertain random phenomena as the research object, and the task is to explore and study the statistical regularity of random phenomena. it is the basis of continuing toearn mathematical statistics, random processes andrelated courses of probability theory.

Probability theory is a highly applied subject of mathematics and a basic toofor analyzing and solving problems in various subjects.

As one of the most successful students of Su Buging, Gu Chaohao was one of the most well-known mathematicians in China. He once acted as the president of Wenzhou University.

Mathematical statistics

Course Description

Mathematical statistics is a discipline that studies the statistical regularity of random phenomena based on the theory of probability and data obtained from experiments or observations. The purpose of this course is to enable students to understand statistical inference testing and apply methods to make various reasonable estimates and judgments on the objective regularity of the research object

Master Programs

ges

Applied Economics
Finance
law
Teaching Chinese to Speakers of Other Langua
M.Ed. in English teaching
Master of Translation and Interpreting
Computer Science and Technology
Electronic & Information Engineering
Civil and Hydraulic Engineering
Chemistry
Material Science and Engineering
Mechanical Engineering
Electrical Engineering
Electronic Information
Biology (Chinese Program)
Resources and Environment (Chinese Program





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.

SME

Instructor Zheng XU

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

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.

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.

Finance

余融学



PROFILE

Based on the background of comprehensive financial reform in Wenzhou at the national level, MSc in Financial engineering is designed to cultivate high-quality applied talents with innovative spirit, entrepreneurial ability and social responsibility that conform to the regional economic and social development.

The study involves the application of computational engineering, software engineering and computer programming skills, along with underlying mathematical and statistical theories, to analyse and manage financial opportunities.

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.

EDUCATION OBJECTIVES

Students will acquire the ability to integrate the knowledge of mathematics, statistics and computer science in order to address, critically analyse and provide a rational appraisal of a problem; learn to use software packages to perform statistical analysis and empirical studies, and be able to find optimal solutions to financial problems in broader and challenging environments

JOB PROSPECTS

You will receive the most advanced computational and programming techniques which help you advance quickly in the field. Our graduates much in demand from sectors such as economics, finance, banking, actuarial science, insurance and industrial management.

DURATION

3 years

CORE COURSES

Statistical Methods in Finance and Economics Course Description

This course is designed for students with limited or no prior finance or economic theory background. It emphasizes the understanding of quantitative methods, model evaluations, and the techniques for empirical studies in finance and economics.

This module starts with an introduction to general financial and economic concepts, then it will cover the basics and extension of ordinary least square methods, heteroscedasticity, autocorrelation, multicollinearity, model specifications, simultaneous equation models, binary and discrete choice models, qualitative and limited dependent variable models, time series analysis, panel data models, and nonparametric analysis with their applications in finance and Economics. Students will gain hands-on experience formulating and estimating models, interpreting results, and making forecasts.



Mathematical Finance

Course Description Financial derivatives will be examined,

examining the relevant differential equations and boundary conditions in a number of different problems. The solution method will also be examined. using a mix of analytical and computational techniques. The range of topics includes: introduction to financial mathematics, introduction to financial derivatives, derivation of the Black-Scholes equation, analytical methods for the solution of option problems, computational methods for the solution of option problems, etc.

Climate Investing Course Description

This transformation of financial markets requires an understanding of the assets available for financing sustainable development, the metrics currently used to estimate the environmental impact of investments, the practices adopted by the most sophisticated sustainable investors, and the supporting capacity of public institutions, such as central banks.

This course therefore takes an original approach, consisting of addressing the issue of environmental finance from the viewpoint of financial markets, which are a powerful lever for transforming society. It is intended to provide you with the tools required to be able to understand and support the greening of the financial system by presenting a combination of academic research, practical applications, and the latest regulations.

The aim of this course is to analyse and illustrate what market participants can do to grasp the environmental-and, specifically, climate-challenges by redirecting financial flows towards projects with low environmental impacts to support and strengthen the environmental transition, as well as controlling and mitigating the environment-related financial risks.





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

Jourse 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 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 instrumentsincluding 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 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 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

Teaching Chinese to Speakers of Other Languages

汉语国际教育



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 significanly 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 language 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.



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.

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.

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.

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-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 knowhow 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.



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.

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.

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 problemsolving systems, and structured-object representations.

Electronics & Information

(Computer Science & Technology)

电子信息



PROFILE

The College of Computer Science and Artificial Intelligence of Wenzhou University was founded in 1998, and currently, it has a master's degree program in the first-class discipline of Computer Science and Technology, which is one of the first master's degree programs approved at Wenzhou University. In 2021, the computer science discipline entered the top 1% in the ESI world rankings, ranking fourth in Zhejiang Province. In the same year, the college was approved to establish a professional master's degree program in Electronic and Information Technology.

The college has four undergraduate majors: Computer Science and Technology, Network Engineering (Zhuo Gong Chao Hao Class), Data Science and Big Data Technology, and Artificial Intelligence. Among them, the Network Engineering major is a national first-class professional construction site, and the first local college ever to pass the Washington Accord equivalent engineering education certification; the Data Science and Big Data Technology major is a first-class professional construction site in Zhejiang Province. There are currently 106 graduate students (56 international students) and 78 full-time teachers in the college, including 18 full professors, 30 associate professors, and 58 Ph.D. holders. The teachers in our college come from all corners of the world, including the United States, the United Kingdom, Germany, Australia, Malaysia, etc.

DURATION: 3 years.

EDUCATION OBJECTIVES

The Master's program will study computer science and technology systematically, and in particular, will gain a deep understanding of the fields of computer technology, artificial intelligence, big data, and biomedical engineering. Upon the completion of the degree, students will not only develop a deep and solid understanding of computer science and technology but also be trained to have a rigorous scientific attitude and overall theoretical reasoning capability, which will develop into skills that can be used for engaging in new scientific research in computer science and other interdisciplinary and have good teamwork ability.

JOB PROSPECTS

There are also excellent career opportunities for graduates with these backgrounds in business, industry, and government as programmers, systems analysts, computer systems and network managers, user support officers, and software engineers. Many graduates are accepted by many famous IT companies and government organizations, while some continue their studies by pursuing a doctoral degree.

CORE COURSES

Principle & Application of Artificial Intelligence Instructor Jiawei XU

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

Civil and Hydraulic Engineering

土木水利



PROFILE

Importance is attached to teaching of this specialty combining the basic theories of science and technology with practice. We encourage students to grasp a substantial fundamental theoretical knowledge about mathematics, and mechanics, as well as the knowledge about humanities and sociology, and the fundamental theoretical knowledge about civil engineering technology. To be highquality composite-type science & technology and management talents rich in innovative spirit, entrepreneurial ability and social responsibility, the students shall be able to engage in planning, design, construction, management, and scientific research, etc in the fields of architectural engineering, road and bridge engineering, municipal engineering, geotechnical engineering, and engineering management, etc.

DURATION

3 years

JOB PROSPECTS

With the continuous development of world economics, road network transformation and urban infrastructure construction, the demand for civil engineering technicians will continue to rise in the current and future. In the talent market of many countries, the demand for talents in civil engineering and construction has jumped to the first place. Students with our professional training, after graduation, they can choose to continue their further study or find their job in civil engineering area.

EDUCATION OBJECTIVES

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

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

CORE COURSES

Advanced Soil Mechanics, Advanced Concrete Structures, Advanced Steel Structure, Structural Dynamics, Civil Engineering Experiments, Finite Element; Mathematical Equations etc.

Finite Element Method

Course Description

Finite element method is one of the most important numeric tools for civil engineers. This course will first focus on linear elastic finite element, including the general solution process of finite element, matrix analysis and assembly of solutions etc. Some advanced topics such as nonlinear finite element will also be provided. FE code in MATLAB/Octave will be provided. The use of commercial finite element software, such as ABAQUS and Midas, will also be discussed.

Advanced structural analysis Course Description

Advanced structural analysis is one of the specialized courses for doctoral candidates in structural engineering, disaster prevention and mitigation engineering and protection engineering, bridge and tunnel engineering. It is an examination course designed to test candidates' basic theoretical knowledge and method system of civil engineering. The assessment criteria for passing the course examination are based on a deep understanding and proficiency of the relevant test points.

Practical Teaching Professional Practice

Fluid Mechanics and Hydrology Engineering Course Description

This course will cover the following topics: The singledegree-of-freedom (SDOF) system. Response of dynamic loads by superposition. Time domain integration. Continuous systems (partial differential equations), generalized single-degree-of-freedom systems, dynamic response by superposition. The equation of motion in a matrix format. Numeric solution to the problem of free oscillations. Direct solution of the equation of motion in time and frequency domain. Response calculations for relevant load cases (e.g. wind and earthquake).

To improve their Chinese language proficiency, a series of Chinese courses will also be provided, including: Basic Chinese, Intensive Chinese Reading, Chinese hand writing and China Overview. In addition, to help international students get settled down in Wenzhou, Chinese undergraduate and graduate students majored in civil engineering can provide necessary help when necessary. Every graduate student will be guided by a supervisor with strong academic background, who can communicate in English.





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: 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.

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 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.

- 1. A state-of-the-art Pharmaceutical Chemistry Lab and Energy Materials Lab, as well as a Frontier Materials Lab and

CORE COURSES

Advanced Organic Chemistry

Instructor Yuanzhi XIA

Course Description





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 industrylinked 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 posttest 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.



CORE COURSES

Scientific Paper Writing

Instructor Shiqiang ZHAO

Course Description

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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.

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

This Master Degree program of Mechanical Engineering is run by International Science & Technology Cooperation Base for Laser Processing Robot (ISTCB-LPR, also known as Laser Base), College of Mechanical and Electrical Engineering, Wenzhou University.

Laser Base of Wenzhou University, is the general name of Laser and Optoelectronic Characteristic Discipline Platform in College of Mechanical and Electrical Engineering, WZU, including Ministry of Science and Technology National Level International Science & Technology Cooperation Base for Laser Processing Robot, Zhejiang Province Laser Processing Robot Key Laboratory, Zhejiang-Russia (Wenzhou University) Ultrafast Laser Advanced Manufacturing International Cooperation Joint Laboratory, Laser and Optoelectronic Intelligent Manufacturing Zhejiang Province Engineering Research Center, Zhejiang Province Laser and Optoelectronic Intelligent Manufacturing Collaborative Innovation Center, and a series of platforms.

Laser Base focuses on the synchronous planning and promotion of talents introduction with the development strategy, industrial structure adjustment and layout of the region, 20 years' commitment to collaborative development in the integration of industry, academics, research and application, in accordance with the development concept of "Talents Rooted in the State of the Warm; Achievements Transformed in the City of Innovation; Capacity Built in the Capital of Entrepreneurship; Capital Invested in the Ouyue Land". At present, Laser Base has formed a new pattern as "One Body & Two Wings" with Laser Manufacturing Discipline as the main body, Laser Base as the main front and Laser Institute as the main battlefield. Currently, there are 52 scientific researchers in Laser Base, including 3 Academicians, 6 National Talents, 9 Provincial Talents and 34 PhDs. Combining the national "Belt and Road" initiative with the requirements of international development of university, Laser Base has established close international cooperation with foreign research institutes such as Moscow State University in Russia, National University of Singapore, and Pennsylvania State University in the U.S., to promote the internationalization of talents training, discipline construction and faculty members.

Mechanical Engineering in WZU, certificated with the national "Plan for Educating and Training Outstanding Engineers (PETOE)", has faculty staffs recruited from top universities and research institutes worldwide. ISTCB-LPR has established a profound impact on industrial application of laser, laser-based manufacturing and intelligent manufacturing.

Upon graduation, you will:

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

- literature.
- investigation.

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

EDUCATION OBJECTIVES

Mechanical Engineering focuses on the combination of basic theory study and research, to build a substantial fundamental and broad specialized knowledge with the ability and quality of innovation and practice, be capable of solving practical engineering problems and competent in technical and management positions.

Students in this Master Degree program are offered with research experiences in three broad areas: Laser Material Processing, Laser-equipped Robotic Systems & Controls and Laser-induced Spectrum Analysis. The research opportunities are diverse, and they can range from working closely with an individual faculty member and/or as part of a team in a large interdisciplinary research center. Postgraduates are expected to engage in research that pushes the boundaries of science and engineering, and leads to new knowledge creation.

SCHOLARSHIP

Laser Base offers scholarship with Level A (5000 RMB) and Level B (3000 RMB) to well-rated postgraduate freshmen enrolled in this program, and sets up another scholarships in the 2nd & 3rd academic years based on comprehensive performance including daily behavior, research achievements, etc.

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

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

CORE COURSES

- 1) Modern Materials Analysis
- 2) Micro-nano Manufacturing and MEMS Technology
- 3) Introduction to Mechanical Engineering Material Selection and Hot Working
- 4) Light and Matter Interaction

Modern Materials Analysis

Instructor Tiehui Fang

Course Description

This course discusses in detail the interaction of electromagnetic radiation, moving particle beams and thermal effects with materials, focusing on the generation of various types of physical detection signals, and thus introduces or derives from a variety of related modern materials analysis and testing techniques. On the basis of the above basic knowledge, the principles of several modern analytical methods for materials such as diffraction analysis, electron microanalysis, spectral analysis and thermal analysis, detection processes and instruments, analytical processing of test results and typical applications of the methods are introduced in more details.

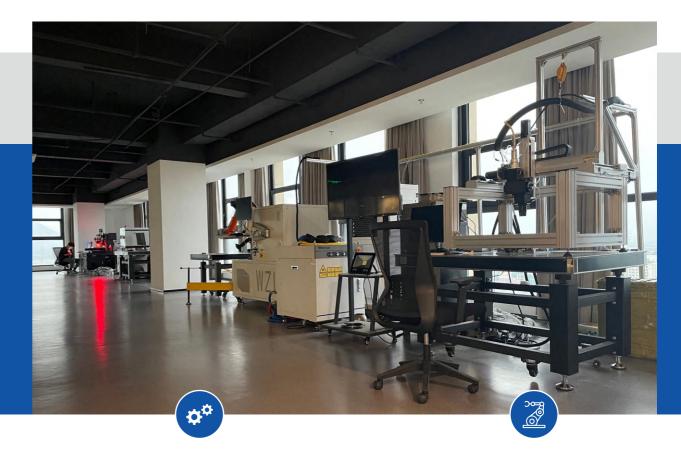
Through the study of Modern Materials Analysis, students will master the basic principles of several modern analytical methods of materials, such as X-ray diffraction analysis, electron microanalysis, electron spectroscopy, thermal analysis, spectroscopy, etc., the detection process and the main structure of the instrument, the analysis and processing of test results and the typical application of the methods, so that students can master the corresponding basic knowledge, skills and necessary theoretical basis, and be able to correctly use modern analytical techniques for the analysis and characterization of materials composition and structure. Students will acquire the basic knowledge, basic skills and necessary theoretical foundation, and be able to properly apply modern analytical techniques to analyze, test and characterize the composition and structure of materials, and thus have the ability to conduct materials science research and solve problems related to materials science and engineering. The course content includes the analysis of tissue morphology, crystal phase analysis, composition and valence bond structure analysis, molecular structure analysis, etc. in materials research.

Micro-nano Manufacturing and **MEMS** Technology Instructor Ali Hassan

Course Description

The candidate will have detailed knowledge of selected topics within fabrication technology for semiconductor devices and integrated circuits and the different fabrication processes for manufacturing MEMS.

Micro-nano fabrication are enabling technologies for micro-nano device and micro-nano science research. While both were mainly invented throughout the progress of the semiconductor industry, their applications have gone beyond semiconductor devices and circuits. Understanding the science and technology of micro-nano fabrication becomes an essential foundation of successful research in the frontier of electronics, photonics, and circuits.



Introduction to Mechanical Engineering Material **Selection and Hot Working**

Instructor Yu CAO

Course Description

An introduction to the principles necessary to understand how light interacts with matter. Atomic physics as Selecting the right materials and processing methods from the applied to simple atoms will be reviewed. These thousands available is a compulsory course for all students concepts are then extended to multielectron atoms and major in mechanical engineering. The final decision is normally based on several criteria. The more familiar an an understanding of their spectra. Molecular structure engineer or scientist is with the various characteristics and and spectra are covered in depth, including the principles of lasers. Finally, the structure of crystalline structure-property relationships, as well as the processing solids and their band structure is studied. These techniques of materials, the more proficient and confident he concepts are then used to understand electronic or she will be in making judicious materials choices based on devices. these criteria.

Therefore, the targets and tasks for this course are the following:

1) Let students have the opportunity to fully understand the processing/structure/properties/performance correlations without having to consult other sources.

2) Let students become familiar with possible consequences attendant to processing and fabricating procedures in order to prevent unanticipated material failures.

3) Let students have some familiarity with the general characteristics of a wide variety of metals and their alloys materials which are necessary for making material selection decisions.

WENZHOU UNIVERSITY

Light and Matter Interaction Instructor Dehua ZHU **Course Description**

- After completing the course, the students should be able to:
- 1) Explain and apply the physical theory of light-matter interaction for evaluation of emission, manipulation and absorption of light in atoms, molecules and solids.
- 2) Identify and discuss applications of light-matter interaction in photon technologies such as spectroscopy or design of photonic materials and components.
- 3) Acquire, analyze and present experimental data, while observing general rules of conduct and safety in the laboratory environment.

Electrical Engineering



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, 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 selfpublished 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

Electronics & Information (Electronic Science & Technology)

电子信息

PROFILE

The master degree in electronic information is a professional degree related to the qualifications in the field of electronic information that emphasizes engineering, practice and application, and cultivates application-oriented and high-level compound engineering and engineering management talents. Relying on College of Electrical & Electronic Engineering and College of Computer and Artificial Intelligence in Wenzhou University, the major of electronic information contains the following research fields:

- Electronics and Communication Engineering silicon based optoelectronic integration, wide band gap semiconductor power device design, security chip theory and VLSI design, microwave antenna, device and link design, intelligent internet of things, circuit and system, micro and nano sensors, etc.
- Artificial Intelligence artificial intelligence and computing theory, intelligent computing, data mining, medical image computing, etc.
- Electrical Engineering theory and technology of special power supply for offshore engineering, micro grid technology, highperformance permanent magnet motor and system, basic theory and technology of electrical appliances, design method and manufacturing technology of intelligent electrical appliances, etc.
- Photoelectric Engineering photoelectric information detection, new optoelectronic devices, vacuum electronics and energy devices, laser technology and application, target detection and recognition, photoelectric image processing and other photoelectric technologies and devices, etc.
- Computer Technology intelligent network, cyberspace security, wireless awareness, distributed network and cloud computing, complex system simulation, computer graphics and visualization, etc.



TEACHING RESOURCE

The faculty is excellent in teaching and supervising, including "Yangtze River Scholars", "Hundred, Thousand, Ten Thousand Talents Project" national candidates, young and middle-aged experts with outstanding national contributions, state-council allowance obtained experts, young and middle-aged experts with outstanding contributions in Zhejiang Province, "151 Talents Project" in Zhejiang Province, young and middle-aged discipline leaders in Zhejiang universities. There are national and provincial scientific research platforms such as the National and Local Joint Engineering Laboratory of Electrical Digital Design Technology, Zhejiang Provincial Engineering Laboratory of Electrical Digital Design Technology, Zhejiang Provincial Low voltage Electrical Apparatus Technology Innovation Service Platform, Zhejiang Provincial Low voltage Electrical Apparatus Engineering Technology Research Center, and the Mechanical Industry User side Photovoltaic Microgrid Engineering Center.

EDUCATION OBJECTIVES

According to the needs of social development and industrial innovation, the master degree program closely combines the advantages and characteristics of the school to cultivate talents in the fields of electronics, communication, electrical, photoelectric, computer and artificial intelligence. The program aims at training train high-level engineering talents to have a solid foundation, comprehensive quality, strong engineering practice ability, and innovation ability in the development and application of electronic information technology, engineering design and implementation, engineering planning and management.

DURATION 3 years

CORE COURSES

Artificial Intelligence and Principles Instructor Xiaochun GUAN

Course Description

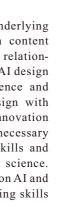
The course will introduce the basic ideas and techniques underlying the design of intelligent computer systems. The main content focuses on artificial intelligence (AI), design, and their relationships. Covered topics include AI basics, design rules, and AI design methods. This course mainly studies artificial intelligence and innovation design methods, design rules and meta design with artificial intelligence, and carries out comprehensive innovation and problem-solving theories and methods, laving a necessary foundation for cultivating students' intelligent design skills and imagination ability of cross innovation between art and science. The course aims to build students a knowledge foundation on AI and design, and develop their multidisciplinary problem-solving skills to address the future challenges for humanity.



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 handson 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.



For questions about the program: Name: Zengling Ma Email: 59585210@gg.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.



CORE COURSES

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

CONTACT

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.

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.

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.

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

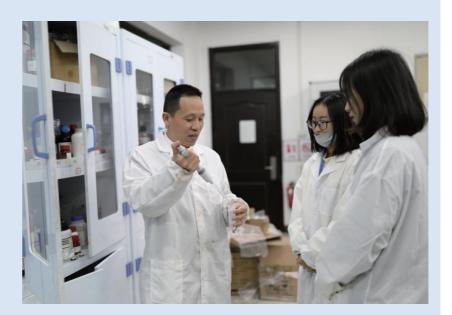
This course is a comprehensive knowledge of professional which is about Chemistry. The latest research progress of chemical disciplines at all levels are introduced in the form of lectures, including electrochemical and electroanalytical chemistry, catalysis technology, the greenization of the production 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

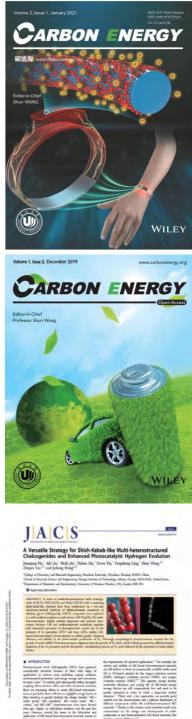
Instructor Yifei YUAN

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), Xray photoelectron spectroscopy (XPS), Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM), Fluorescence Spectrum (FS), Nuclear Magnetic Resonance Spectrum (NMR) and Mass Spectrum (MS).



WENZHOU UNIVERSITY



Non-Degree Program

中文语言学习 Chinese Language Learning Programs



CHINESE LANGUAGE LEARNING PROGRAMS

中文语言学习



LONG-TERM PROGRAM

The Chinese Language Training Course focus on cultivating foreign students' listening and speaking abilities. The courses are divided into three different levels, meeting the needs of students with different language proficiency. Foreign students can quickly master the Chinese pronunciation, and can use basic Chinese for communication through classroom exercises and extra-curricular experience.

At the same time, students can be able to identify commonly used Chinese character and grasp basic Chinese grammar, understand Chinese custom as well as culture through the language training. After the training, students can grasp elementary Chinese reading and writing skills and develop communicative competence. The teaching time of the program is flexible and the content is rich. Thus, it is also suitable for foreign friends who are studying, working and living in Wenzhou.

SUMMER PROGRAM

The program is offered at three different levels:elementary, intermediate and advanced levels.

Students will be divided into different classes according to their Chinese language proficiency.

You can choose variable courses, which tell us Chinese traditions such as Chinese music, painting, calligraphy, marital arts.etc.In the program,you can also experience Chinese culture by tutoring in China. We will show you around the Wenzhou City to experience traditional Chinese culture.At the end of the program, you will become a China hand who can not only speak Chinese but also understand Chinese culture!

GROUP PROGRAM

WZU will meet the requirements of foreign universities, enterprises or any type of group or organization, to create a tailor-made course throughout the year. The course can integrate Chinese teaching, cultural experience, hands-on practice and social observation to give learners the most efficient improvement of Chinese language skills and understanding of Chinese culture in a short time.

Aside from the regular Chinese classes, Chinese cultural courses are offered for optional, such as Chinese folk customs,

Chinese economy, calligraphy, Chinese traditional music, Chinese painting, paper-cutting, Tai Chi.



A.Elementary Level : Intensive Reading, Practical Conversation, Listening Comprehension, Extensive Reading, etc. B. Intermediate Level : Intensive Reading, Listening and Conversation, Practical Writing, Extensive Reading, etc. C.Advanced Level : Intensive Reading, Advanced Comprehensive Chinese, Practical Writing, Extensive Reading, etc.

To apply for non-degree programs visit http://study.wzu.edu.cn

PROGRAMS				
Program	Duration	Qualifications	Application Duration	Fee(RMB)
Long-Term Program	One semester or above	aged 18 above	Until January 15 th (Spring Intake) Until July 31 st (Autumn Intake)	 Application fee: 400 RMB Tuition fee: 7000 RMB /semester 12000RMB/year Textbook fees:varied each semester
Summer Program	3 weeks	aged 18 above	Until May 15th	 Application fee: 400 RMB Tuition fee: 6000 RMB Free of charge:textbook fee, Chinese Culture Courses,four culture experiences in Wenzhou,accommodation, Fee charged separately:one-day culture experience in Hangzhou (optional)
Group Program	Variable upon request, from 1 week to 3 months,may start any time of a year	Minimum 15 students	All through the year	Negotiable

TEACHING SCHEDULE

APPLY ONLINE