

# Dalian University of Technology International Prospectus





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## About Dalian University of Technology

**Dalian University of Technology** (DUT) is located in the beautiful coastal city of Dalian, in northeastern China's Liaoning Province. It is one of the key national universities under the direct leadership of the State Ministry of Education, funded by "985", "211" project.

Having gone through the persistent efforts of several generations, DUT has developed into a comprehensive university of science and technology. Engineering is DUT's main concentration, with other departments including applied sciences and economic management sciences, as well as humanities disciplines, which include the social sciences and law. There are 7 faculties and 7 schools with more than 39,000 full-time students. DUT is doing actively in academic exchange with other science and technology organizations both home and abroad. DUT has signed academic agreements with more than 203 higher education institutions and scientific research in more than 29 different countries and regions.

DUT enjoys a good reputation for its rigid management and its good environment for study. The school is known for its motto: "Unity, Enterprise, Realism and Originality". DUT has fostered and trained millions of talents of various professions, who are widely welcomed in the society.

With the support of "Constructing first-class universities and disciplines", bringing forth the spirit of innovation, DUT is engaged in grasping the historic opportunity of rejuvenating the old northeastern industrial base, and carrying out a talent-training strategy in the hope of building DUT into a world-class research-oriented university.

\* According to 2016 US News & World Report Global University Ranking, DUT is ranked No. 375 internationally and No. 55 in Asia.



## About School of International Education

**The School of International Education (SIE)**, Dalian University of Technology ( DUT), founded on March 8, 2013, is a multifunctional administrative and academic unit which is responsible for the admission, education and management of international students affairs, teaching Chinese as a Foreign Language, TCFL research, etc. SIE adheres to DUT's philosophy, upholds the motto of "vast ocean taking all the streams, self-cultivation, devotion to study", aims to educate the students to become international talents familiar with Chinese culture and having good understanding of multicultural communication, thus contributing to the building DUT into a world-class research-oriented university.

SIE consists of 6 departments: Department of Teaching Chinese as a Foreign Language, General Affairs Office, Students Affairs Office, Teaching Affairs Office, Recruitment and Admission Office and Confucius Institute Administration Office. SIE has a professional, experienced academic team of faculties more than 50% of whom are associate professors and a team of administrative staff who have overseas study and living experience, serving at SIE for many years. SIE not only provides qualified and scientific language training and programs, but also provides various services for international students including psychological consultation, visa service, study consultation, etc.

DUT's international education started from 1960's. Since then, there are over 9000 international students from over 100 countries who have studied here at DUT. In 2015, more than 1400 international students are on the DUT campus. During the years, based on DUT's science and technology research strength and excellent teaching and education resources, DUT's international education has got sound developments with non-degree seeking programs and degree seeking programs. In the year of 2013, Dalian University of Technology was awarded as "Liaoning Provincial Demonstration Base for International Students Education". The non-degree seeking programs at DUT include International Summer School, long or short term Chinese language learning and training courses provided by SIE's Chinese Language Center, credit transfer programs, etc. Degree seeking programs include Chinese Language bachelor program for international students, English-medium bachelor programs, English-medium master programs, English-medium doctoral programs and all the other degree programs offered at DUT.

SIE is the active organizer for international students' colorful campus life and Chinese culture experiences. Every year SIE organizes a lot of language practice and internships, cultural tours, business and industry visits, as well as a good number of campus activities including International Cultural Festival, Chinese Speech Contest and DUT Campus Carnival etc.

SIE warmly welcomes students from all over the world to study at Dalian University of Technology!

## Programs for International Students

#### Non-degree programs

#### Chinese Language Training

Semester Start: March 1,2017 - July 15, 2017 September 1, 2017 - January 15, 2018

#### **DUT SIE Chinese Training Centre**

DUT Chinese Training Centre is affiliated with School of International Education, Dalian University of Technology (DUT). Thanks to its experienced and qualified teachers, popular courses, advanced teaching methods and remarkable teaching effects, DUT Chinese Training Centre enjoys a conspicuous reputation among international students and Chinese teaching institutions in Dalian.

#### About Chinese Language Training Programs

The Chinese Language Training Programs, part of DUT's commitment to internationalization, offers diversified courses meeting different needs of all international students. Offering both language courses and culture courses centered on practical language skills and knowledge, the programs draw on the expertise of the instructors and staff. Students can choose to study for one level or to complete all the levels continuously.

- Levels of courses
  - Courses for the beginning level (low-beginning/ high-beginning);
  - Courses for the intermediate level (low-intermediate/ high-intermediate);
  - Courses for the advanced level;

	Elementary	Comprehensive (intensive reading and grammar), Listening, Speaking, Reading and Writing.
Chinese courses:	Intermediate	Comprehensive (intensive reading and grammar), Listening, Speaking, Reading and Writing (reading/writing)
	Advanced	Comprehensive (intensive reading and grammar), Listening, Speaking, Reading, , Writing and Chinese Culture.
Selective courses:	Ancient Chinese, Business Chinese, HSK Counseling, Tai Chi, Calligraphy, Paper Cutting, Peking Opera, Chinese Cuisine, Chinese Pronunciation	

#### Admission requirement:

 Above 18 years old and in good health (Applicants under 18 years old can apply only if he/she has a guardian in Dalian.)

• Applicants are accepted for any Chinese language level.

#### Highlights

Adhering the student-oriented concept, the programs involve 20 teaching-hours' language courses in weekday mornings and culture courses in the afternoon, all of which contain less than 15 students, allowing each student to have sufficient time for practice.

Various activities including International Cultural Festival, Chinese Speech Contest, Talent Show, City Tour, Local Culture Investigation, DUT Carnival, Sports Meeting etc. are held every semester for students to practice Chinese, develop their interest in language learning, broaden their cultural horizon and have a better understanding of Chinese culture and society.

#### **Class Type**

Placement teaching: students are divided into seven levels of teaching according to their Chinese levels.

Small class teaching: class size of no more than 15 people.

Teaching schedule:

Chinese Courses: morning from Monday to Friday

Elective Courses: afternoons from Monday to Friday

#### **Featured Activities**

• Language Practices: International Students Chinese Speech Contest, Chinese Talent Show and Language Experience & Practice Activities.

• Cultural activities: Regional cultural study (Spring / Autumn), Campus Carnival (Spring), International Cultural Festival (Autumn), sports (Spring) etc.

#### Application Procedure

- Online application at http://iso.dlut.edu.cn/
- Submit the passport copy in the online application system.



#### International Summer School (ISS)

#### Session 1: Chinese Economy Energy & Environment

#### About CEEE

The six week summer program focuses on energy, environment policy and business in China, the second largest economy in the world, and how China is dealing with the energy and environmental challenges caused by the growth of the Chinese economy.

Students will take 4 -8credits of pre- determined courses focusing on energy, business, Information and Communication Technologies and environmental policy in China. They will also have options to take additional Chinese Language courses at DUT. Extracurricular activities include tours in Liaoning Province, and two week internship.

**Course Introduction** (At least two courses are to be selected)

#### • Overview of the Chinese Economy

The modern Chinese economy consists of a unique combination of state control, state enterprises, and free market entrepreneurship. Overview of the Chinese Economy examines how these segments of the economy work together and how they have generated sub-stantial economic growth for China.

#### • Chinese Energy and Environment Policy & Management

China is facing great challenges supplying energy for its growing economy, as well as issues of energy security .Chinese Energy and Environment Policy & Management looks into Chinese energy and environment regulatory frameworks, and how they have acted to increase energy production.

#### • Information and Communication Technologies (ICT)

Through introduction of emerging information and communication technologies (ICT), like social media, mobile Internet, Internet of Things, Telemetric, Virtual & 3D Web, Cloud computing, Big Date, and Business Intelligent et al, we hope to inspire students to understand business value and potentials of these disruptive technologies. By discussing the latest E-Commerce cases both in China and in the world, help students to form the developing and global prospective for E-Commerce. Students will learn the necessary analytical tools and management methods; think of e-commerce innovation based on emerging technologies. The final goal is to enhance the learners' capabilities to adapt to the IT driven dramatic changing world.

#### • Cross Culture Management

This course emphasis cultural difference could cause issues and dilemma among teams and individuals within organization. The text brought attention on the culture relation with Management, Organization and Communication, and further detailing in individual values, group norm, leadership, organizational culture, structure, and organizational changes, as well as conflicts, negotiation, working with International teams to develop competences to cope cultural challenges thus to embrace collaboration capabilities for cross-cultural context.

#### Fees Standard (Dollar)

Items	Fees
Insurance	\$50.00
Chinese Economic Overview(2 credits)	\$1,000.00
Chinese Energy Policy and Management(2credits)	\$1,000.00
Information and Communication Technologies (2credits)	\$1,000.00
Cross Culture Management (2 credits)	\$1,000.00
Accommodation	\$400.00
Expanding Chinese Studies	\$200.00
Internet	\$13.00
Management fee	\$600.00

#### Housing & Meals

Attendants will be housed in dormitories with other international students arranged by SIE at DUT. Students will have access to the Internet and the dining halls on campus.

#### Important Dates (2017)

- Duration of CEEE program: May 17-June 28;
- Program starts on May 17;
- Registration day: May 17;
- Program ends on June 28;
- Application deadline: May 1.

#### **Admission Requirements**

- Aged between 18 and 60(including 18 and 60);
- · University students -- undergraduates or post-graduates;
- · Physically and mentally healthy;
- · No Chinese proficiency is required

#### APPLICATION

- Visit the SIE website: http://sie.dlut.edu.cn.
- · Register and log in to complete the blanks.
- Submit the application after blanks filled out.

#### Contact us

School of International Education, DUT Contact: Ms. Lvna Email: dutsice@dlut.edu.cn Tel: (86)-411-84706048 / 84706370 Fax: (86)-411-84770361







Session 2: International Summer Camp Program Start: July - August, 2017

Fees (CNY):				
Tuition	Registration	Insurance	Internet	Books etc.
2,600	400	50	40	about 400

#### Application Period: March - June, 2017

International Summer Camp is held every summer for Chinese language learners and those who are interested in Chinese culture and society. ISC is taught in English. Here you can not only feel the unique glamour of Chinese culture and language, but also enjoy the multi-culture exchanges which promotes you international understanding. You will make friends with students from China and other countries.ICS also organizes various activities including tours to Xi'an and Dandong, field trips to sewage treatment plants, cultural experiences, beach barbecue, etc. Every ISC begins in late July and lasts for 3-4 weeks every year.

For more details, please refer to sie.dlut.edu.cn



#### Session 3: Intensive Training on Chinese Language

Intensive Training on Chinese Language aims to improve international students' practical Chinese language skills in a Short time. By providing efficient Language classes and organizing kinds of cultural activities, the program offers it participants a great opportunity to experience a real China and the diverse culture. The program consists of two parts-a major part of Chinese classes and a supplementary part of culture experience activities.

	WEE	EK 1	WEEK	2	WE	EK 3
Time	AM	РМ	AM	РМ	AM	РМ
Sunday	CHECH	K IN			Outing with	in Liaoning
Monday	Opening/ DUT tour	City tour	Chinese class		Chinese class	Language Practice
Tuesday	Chinese class		Chinese class		Chinese class	
Wednesday	Chinese class	Language Practice	Chinese class		Chinese class	Language Practice
Thursday	Chinese class	Cultural activities	Chinese class		Chinese class	
Friday	Chinese class	Language Practice	Chinese class		Chinese class	Cultural activities
Saturday	Outing arou	ind Dalian	Outing within Li	iaoning	Cle	osing

#### Program Start:

- Summer Class: July August, 2017
- Winter Class: December,2017

#### Fees (CNY):

Registration	Tuition	Books	Cultural Activities	Insurance	Internet	Accomn	nodation
400	4500	400	500	50	40	Single Room 120	Double Room 60

#### **Application Time:**

40 days before the start of the classes

#### Application Qualification:

The applicants must be in good health and age between 18 and 60.

#### Application Procedure:

- Online application at http://iso.dlut.edu.cn/
- Submit the passport copy in the online application system.

#### Degree programs

#### Chinese Language Major (Bachelor Program)

#### Introduction

This major is a four-year degree program, and it emphasizes the practical use of Chinese in international enterprise management and international business and trade. The international students are expected to have a command of Chinese knowledge and skills which are required in business and trade. This program aims to cultivate advanced and applied talents in Chinese to meet the needs of the international market.



#### **Main Courses**

Basic Courses	Comprehensive Chinese, Listening, Oral Chinese, Reading, Writing News Listening, Oral Chinese for Business, Business Communication, Newspaper Reading, Topic Communication, Business Writing Pronunciation, Lexicon, Syntax, Rhetoric
Specialized Courses	Principles of Economics, Chinese Economy & Society Business Negotiation, International Trade, Survey of World Economy
Compulsory Course	Survey of China, Chinese Culture, Fundamentals of Computers, Chinese Computer Editing, Second Foreign Language(English/Japanese)
Selective Courses	Ancient Chinese, Business Chinese, HSK Counseling, Tai Chi, Calligraphy, Paper Cutting, Peking Opera, Chinese Cooking

#### Activities

Language & Cultural Activity	Dalian Geographical & Culture Visit, Liaoning Cultural Attraction Visit, China Cultural Attraction Visit & Language Practice
Extracurricular Activity	Chinese Speech Competition, Chinese Talent Show, International Cultural Festival, Athletics Meeting, DUT Campus Carnival, Students Unions & Clubs, Tourism Activity in China (Organized by School, voluntary participation, at own expense)
Other Activities	Visit Enterprises, Internship Recommendation

#### Semester Start

September, 2016

#### Fees (CNY)

Tuition	Application Fee	Grade	Test Fee
		First Year (2nd Semester)	1,750
19,500/year	800	Second Year	3,500
	000	Second Year (2nd Semester)	5,250
		Third Year	7,000

#### Application Time

Before July 10, per year

#### Admission Qualifications

- Non-Chinese citizen
- ♦ Age between 18 to 25 years old and in good health
- High School diploma and transcript
- ◆ HSK4-180 or above or Chinese Language Learning Certification (six months or above) and Transcript

Study experience in universities at home and aboard for half year or above and pass the entrance examination, can study from first Year in Spring Semester with HSK4-200 (or above)

\*Study experience in universities at home and aboard for one year or above and pass the entrance examination, can study from Second Year in Spring/Autumn Semester with HSK4-220 (or above)

\*Study experience in universities at home and aboard for two years or above and pass the entrance examination, can study from Third Year in Autumn Semester with HSK5-220 (or above)

× Applicant under age 18 must have a guardian who lives in Dalian.

#### **Application Procedure**

Submit the application at http://iso.dlut.edu.cn/

• Submit the photo, HSK certificate, diploma of high school, transcript and passport copy in the online application system.

#### **Degree Programs**

#### International Economics & Trade (English-medium Bachelor Program)

#### Introduction

This major is a four-year bachelor program of international students and affiliated to Faculty of Management & Economics (FME) and School of International Education (SIE) in Dalian University of Technology (DUT).With the advantages of FME (http://management.dlut.edu.cn/English/en\_index.htm) which has passed the authentication of the AACSB and with the third-year learning experience in USA cooperative universities, the qualified students can get the rich professional knowledge and Bachelor of Economics awarded by DUT through the "2+1+1" Bachelor Program.

This major emphasizes on cultivating international students with the abilities of quantitative analysis of international economics & trade, and requires students to have a solid basic knowledge of economics, to grasp basic knowledge of international economics and international marketing systematically, to be familiar with general regulations and rules of international economy, to understand the social economic circumstances of the main countries and regions, to master policies of international economy & trade, and to acquire the skills of dealing with international economics & trade activities of solving the real problems of marketing. Graduates are expected to work in trade management sectors of different levels, joint venture corporations, multinational companies, financial institutions and other enterprises and government institutions, and be engaged in economy analysis, management, investigation, consulting and making plans, or deal with international trade practice.

General Education	Basic Engineering Mathematical Analysis, Linear Algebra and Analytic Geometry, Probability and Statistics, The Fundamentals of Computer, The C Programming Language, Chinese Culture, Oral Chinese, Chinese Listening and Speaking, Chinese Writing
Basic Courses	Introduction to Economics, Principles of Management, The Principles of Economics, Money and Banking, Financial Management, Marketing Management, International Economics, Econometrics, Game Theory, Public Finance, Institutional Economics, The Theory of Industrial Organization
Basic Courses in Discipline	Trade in Service, International Business Contract, Introduction to the World Economy, International Trade, International Trade Practice, Marketing Psychology, International Settlement, International Finance, Introduction to China's International Trade, Correspondence for International Trade
Specialty-Oriented Courses	International Investment, Introduction to Economic Law, International Trade Geography, International Economic Organization, Security Investment, The Business and Management of Commercial Bank, Time Series Analysis, Investment Banking, Guide to Reading of Foreign Journals

#### Main Courses

#### Activities

Comprehensive Practice	Enterprise Visit and Professional Practice, and outstanding candidates can be recommended to the related professional units for specific business skills training (Organized by FME, at own expense)
Extracurricular Activity	Cross-border E-commerce Practice, Professional Cutting-edge Knowledge Lecture, Simulated Stock Contest, Computer Training of Professional Software
Language & Cultural Activity	International Cultural Festival, Students Unions & Clubs, China Cultural Attraction Visit & Language Practice (Organized by SIE, at own expense)

#### Semester Start

September

#### Fees

The 1 <sup>st</sup> Year	Tuition: RMB 25500 Yuan, Application Fee: RMB 800 Yuan, Culture excursions at own expense.
The 2 <sup>nd</sup> Year	Tuition: RMB 25500 Yuan, and accommodation during off-campus internship at own expense.
The 3 <sup>rd</sup> Year	<ul> <li>Fees and expenses are subject to the selected USA university requirements, you can choose one from the three options:</li> <li>1. California State University at San Bernardino, Tuition: about \$ 9000-12000, Accommodation &amp; Meals: about \$ 12000-15000</li> <li>2. California Polytechnic University at San Luis Obispo, Tuition: about \$ 20000, Accommodation &amp; Meals: about \$ 14000-16000</li> <li>3. University of California Irvine, Tuition: about \$ 30000, Accommodation &amp; Meals: about \$ 16000-18000</li> </ul>
The 4 <sup>th</sup> Year	Tuition: RMB 25500 Yuan.

#### **Application Time**

Before July 10, 2016

#### **Admission Qualifications**

- 1. Non-Chinese citizen
- 2. Age between 18 to 25 years old and in good health
- 3. High School diploma and transcript
- 4. TOEFL IBT 68 / CBT 190 / PBT 520 or above, or IELTS 5.5 or above

% If the applicant studies in the English-taught high school, he can have a half-year conditional admission without the corresponding English qualification certificates.

#### **Application Procedure**

1. Submit the application at http://iso.dlut.edu.cn/

2. Submit the photo, English certificate, diploma of high school, transcript and passport copy in the online application system.

#### English-medium Bachelor Programs

#### International Economics & Trade (English-medium)

This major is a four-year bachelor program of international students and affiliated to Faculty of Management & Economics (FME) and School of International Education (SIE) in Dalian University of Technology (DUT).With the advantages of FME (http://management.dlut.edu.cn/English/en\_index.htm) which has passed the authentication of the AACSB and with the third-year learning experience in USA cooperative universities, the qualified students can get the rich professional knowledge and Bachelor of Economics awarded by DUT through the "2+1+1" Bachelor Program.

This major emphasizes on cultivating international students with the abilities of quantitative analysis of international economics & trade, and requires students to have a solid basic knowledge of economics, to grasp basic knowledge of international economics and international marketing systematically, to be familiar with general regulations and rules of international economy, to understand the social economic circumstances of the main countries and regions, to master policies of international economy & trade, and to acquire the skills of dealing with international economics & trade activities of solving the real problems of marketing. Graduates are expected to work in trade management sectors of different levels, joint venture corporations, multinational companies, financial institutions and other enterprises and government institutions, and be engaged in economy analysis, management, investigation, consulting and making plans, or deal with international trade practice.

**Main courses:** Principles of Management, The Principles of Economics, Financial Management, Marketing Management, International Economics, Econometrics, Game Theory, The Theory of Industrial Organization, International Trade, International Trade Practice.

#### Machine Design & Manufacturing and Automation

Mechanical Design Manufacturing and Automation combines a broad-based education in the engineering sciences with a strong grounding in quantitative, problem-solving, design, and communications skills. The undergraduate program combines mechanical engineering with computer technology, automation, sensing test and other technologies to cultivate students with basic knowledge of mechanical engineering, marketing, economy, and industrial management. By emphasizing both analytical and creative methods, we give students the broad skills set they need to pursue their goals - whether that means working as an engineer, founding a company, or continuing on to graduate study and research.

**Main courses:** Engineering Graphics & Visualization, Engineering Training, Statics, Dynamics, Mechanics of Materials, Fluid Mechanics, System Modeling and Analysis, Systems and Measurements, Machine Design (I,II) ,Engineering Materials, ManufacturingProcesses & Engineering, Non-traditional Manufacturing Technology, Design and Manufacture Technology of Mould and Die.

#### Chemical Engineering and Technology

As an applied science, Chemical Engineering is a blend of several disciplines including science, mathematics, chemistry, biochemistry, engineering, which is aimed to make produce value added products in a cost effective and safe (including environmental manner via experiments and innovative attempts.

The solid training provided gives students an excellent preparation for the increasing and changing demands of society. Our comprehensive and versatile undergraduate program offers students an excellent opportunity to develop a career in Chemical Engineering. Most of our past graduates will enter various public or private sector bodies as trainee engineers upon graduation.

**Main courses:** Organic Chemistry, Physical Chemistry, Biological Chemistry, Chemical Thermodynamics, Momentum and Heat Transfer, Mass Transport and Separation, Transport Processes, Chemical Reaction Engineering Process Design and Integration, Chemical Process Design.

#### Civil Engineering

Civil Engineering is a speciality which is made to solve the problems in industrial and civil architecture by applying fundamental scientific theories and related mathematical calculation tools. Students are trained to grasp basic theories of all kinds of civil engineering disciplines and expertise; they are expected to be capable of working on planning, design, construction, management and research in the areas of buildings, underground structures, road and bridge construction as well as foundation treatment. They will be growing at DUT to be advanced engineers and technical personnel who are experts in modern science, technology and management.

**Main courses:** Engineering Geology, Soil Mechanics, Reinforced Concrete Structures, Steel Structures, Seismic Design of Building Structures, Structural Design of High-rise Buildings.



#### English-medium Master Programs

#### Plasma Physics

Plasma Physics at Dalian University of Technology (DUT) enjoys a high reputation both at home and abroad for its excellent performance in both research and education; it is one of the best programs of plasma physics in China. In recent years, more than 10 million CNY worth of research grants each year has been won by the academic staff of plasma physics. The DUT Plasma physics focuses its research effort mainly on two fields, low temperature plasma physics and its applications, and fusion plasma physics and its applications.

#### **Research directions:**

1. Low pressure plasma physics and its applications,

- 2. Low pressure plasma physics and its applications
- 3. Fusion plasma physics
- 4. Plasma-solid interaction in fusion devices
- 5. Ion-beam and material interaction
- 6. Laser-material interaction
- 7. Laser diagnostics of plasma
- 8. Plasma technology and simulation

#### Materials Science and Engineering

This discipline was established in 1958. It was one of the first batch of master degree sections in China. It owns three doctoral degree sites with second level discipline, including material processing engineering, materials science, material physics and chemistry, and four independently set up doctoral degree sites with second level discipline, including material surface engineering, material joining technology, polymer materials, and nondestructive testing and evaluation of materials. Several key research directions have been established in this discipline, including Materials Modification by Plasma and Energetic Beams, Green Joining Technology and Equipments, Electromagnetic Casting of Non-Ferrous Alloys, Solar Energy Photovoltaic Materials, Materials Design and Application, and Computer Application for Material Processing.

#### **Research directions:**

- 1. Plasma and beams surface engineering of materials
- 2. Green welding and joining technology and equipment
- 3. Nonferrous Alloy and its forming technology under physical field
- 4. Photovoltaic materials
- 5. Photovoltaic materials
- 6. Materials design and applications
- 7. Applications of computer technologies in materials processing
- 8. Strength and reliability of materials



9. Novel and special functional materials

#### Building Energy & Environmental Engineering

This major dedicates to post graduate education program in areas of built environment, building energy utilization, building service and facility, architectural technology, etc., aiming to innovatively train students for professions of teaching, research, design, management or high-end engineering practices. A student who successfully passes the required courses and thesis defense will be granted master's degree. Currently there are 17 faculty members in this specialty, including six professors, six associate professors and five lecturers or lab engineers. There are several international students who have studied or been studying in this specialty for master's or doctoral degrees.

#### **Research directions:**

- 1. Built environment
- 2. Building energy utilization
- 3. Building service and facility
- 4. Architectural technology

#### Communication and Transportation Engineering

The School of Transportation and Logistics has 16 faculty members, including 4 professors, 7 associate professors, and 5 assistant professors. The School is also home to the Transportation Planning Research Institute, Intelligent Transportation Research Institute, Logistics Research Institute, and Intelligent Transportation Laboratory. Since its founding in 2009, the program has been funded by a diverse set of agencies including the National Natural Science Foundation of China (NSFC), the Ministry of Transportation, and a number of central and local governments. The School has also established close collaborative relationship with a number of

prestigious universities as well as academic and research institutes at home and abroad.

The program is aimed to educate high-level professionals who are able to conduct teaching, research, design, management, consulting or related engineering work in the area of transportation science and technology. Both Master's and Ph.D. degrees are offered through the School of Transportation and Logistics. The educational and research activities of this program focus on two major areas: Transportation Planning and Management, and Transportation Information Engineering and Control. They are not separated but closely correlated areas. Based on the unique features of this program, the research focuses on the combination of theory and practice, and stresses the importance of integrated multidisciplinary approach.

#### **Research directions:**

- 1. Transportation Planning Theory and Methodology
- 2. Traffic Operations and Management
- 3. Intelligent Transportation System and Technology Integration
- 4. Sustainable Transportation System

#### Computer Science and Technology

This program aims at developing talents who adapt to the needs of the development of computer science and technology, with innovative spirit and practical ability to implement the computer science research and application in the scientific research departments, the education units, enterprises and institutions, technical and administrative departments. This program was established in 1974. At present, there are doctoral-level majors of computer science and technology, 1 post-doctoral mobile stations and 3 secondary subjects of master programs and doctor programs, covering computer application technology, computer software and theory, and the structure of the computer system. There are 4 research institutes in this subject, including theoretical computer science, the Internet of things technology and application, network and cloud computing, and computer software and theory, which are part of the national natural science foundation, national 863, national 973, the national major projects, international cooperation projects and provincial key fund projects.

#### **Research directions:**

- 1. Computer Software and Theory
- 2. Internet of Things Technology and Application
- 3. Information Retrieval and Natural Language Processing
- 4. Network and Cloud computing

#### Business Management

The education of business management at Dalian University of Technology began in 1980. It is one of the earliest domestic management discipline in China. Business management awards doctor's degree and master's degree. There are 66 teachers in this discipline, including 14 professors and 39 associate professors. The discipline mainly cultivates students with international vision and global strategy consciousness

in order to master the dynamic forefront and a certain theoretical analysis and the research ability. Combined with the actual problem engaged in the research, students should be able to adapt to international competition environment. We have 46 graduate students and 28 doctor students from the United States, Europe, South America, Africa and other countries and regions.

#### **Research directions:**

- 1. Enterprise management
- 2. Technology economy and management
- 3. Accounting
- 4. Project management
- 5. Tourism management
- 6. Investment
- 7. Environmental management

#### Mechanics

Department of Engineering Mechanics was founded by Prof. Lingxi Qian, the academician of Chinese Academy of Science, and Prof. Limin Tang, at Dalian University of Technology (DUT) in 1957. The discipline of mechanics at DUT, as a first-level discipline, was authorized to confer the doctoral degree in 1996 and the national key discipline in 2007. The high-level academic staff consists of 28 professors, of whom 3 are academicians of Chinese Academy of Science, 5 are Chair Professors of "Cheung Kong Scholars Programme", 4 gained the National Science Fund for Distinguished Young Scholars and the Joint Research Fund for Overseas Natural Science of China. The department was the first to be awarded the University Science Fund for Innovative Research Group of National Natural Science Foundation in 2004.

The research in mechanics at DUT is highly recognized. It is locating the leading edge in the nation and has international reputation. Each year there are about 170 postgraduates joining the department for master degree and doctoral degree.

#### **Research directions:**

- 1. Dynamics and optimal control
- 2. Computational solid mechanics and numerical methods of coupled problem
- 3. Stability analysis of fluid flow and the numerical simulation of turbulence
- 4. Engineering structure multi-disciplinary optimization and inverse problem
- 5. Mechanical behavior of the material and structure under special circumstances

6. Numerical methods and applications in multi-physics and multi-scale coupling problems

- 7. Mechanical testing technique in geotechnical mechanics and constitutive relation of soil
- 8. Analysis, control and optimization in engineering structural vibration
- 9. Biomechanical models and the application of new biomaterials
- 10.Optimization and design of aircraft structure

11.Design and manufacturing process mechanics problems in additive manufacturing (3D printing) and other advanced manufacturing

#### Naval Architecture and Ocean Engineering

Naval Architecture and Ocean Engineering is belongs to the national "211 Project" and "985 Project" key construction disciplines. The subject has the first-class doctor degree discipline of Naval Architecture and Ocean Engineering and three second-class disciplines including Design and Manufacture of Ship and Ocean Structure, Underwater Acoustic Engineering and Marine Engineering. All these three disciplines can grant both master and doctor degrees and of which the discipline of Design and Manufacture of Ships and Manufacture of Ships and Manufacture of Design and Manufacture of Ships and Manufacture of Design and Manufacture of Ships and

#### **Research directions:**

- 1. Ship and Ocean Structure Design and Key Technology
- 2. Advanced Manufacturing Technology of Ship and Marine Structures and Management Technology
- 3. Ship and Ocean Engineering Hydrodynamics
- 4. Vibration and Noise of Ships and Marine Structures
- 5. Ship and Ocean Engineering Structure Safety
- 6. Underwater Acoustic Engineering

#### Civil Engineering

Civil Engineering in Dalian University of Technology (DUT) enjoys a high reputation both at home and abroad for its excellent performance in both research and education; it is the 8th ranking of civil engineering in China. In recent years, more than 40 million CNY worth of research grants each year has been won by the academic staff of civil engineering. The DUT civil engineering focuses its research effort mainly on eight fields, geotechnical engineering, structural engineering, disaster prevention mitigation and protection engineering, bridge and tunnel engineering, municipal engineering, heating, gas supply, ventilating and air conditioning engineering, construction materials, and engineering management.

#### **Research directions:**

- 1. Geotechnical engineering
- 2. Structural engineering
- 3. Disaster prevention mitigation and protection engineering
- 4. Bridge and tunnel engineering
- 5. Municipal engineering
- 6. Heating, gas supply, ventilating and air conditioning engineering
- 7. Construction materials
- 8. Engineering management

#### Hydraulic Engineering

Hydraulic Engineering in Dalian University of Technology (DUT) enjoys a high prestige

both nationally and internationally for its excellent performance in both research and education. It comprises 5 secondary disciplines, namely Harbor, Coastal and Offshore Engineering, Hydraulic Structure Engineering, Hydrology and Water Resources, Hydraulics and River Dynamics and Hydraulic and Hydropower Engineering. After more than 50 years of effort, Hydraulic Engineering has established its unique and distinct strengths in Marine environmental dynamics, Seismic fortification of hydraulic and nuclear power structures, and Efficient utilization of water and hydropower resources, and has gain a series of internationally leading achievements in scientific research. And substantial economic and social benefits have been achieved in the engineering practice, making notable contributions to the world.

#### **Research directions:**

1. Hydrology and Water Resources: Sustainable utilization of water resources Decision support system for flood control and disaster reduction Economic operation and energy saving dispatching of hydropower and power system Utilization and management of rain flood resources Watershed ecological environment protection 2. Hydraulics and Fluvial Dynamics Engineering hydraulics Computational fluid dynamics and visualization of flow High dam hydraulics Environmental Hydraulics Industrial fluid mechanics 3. Hydraulic Structure Engineering Disaster mechanism and safety evaluation of hydraulic and marine structure Numerical analysis and model test of properties and structure of engineering materials Disaster prevention theory and disaster reduction technology for underground and nuclear power projects Safety monitoring, health diagnosis and reinforcement technology for hydraulic

Numerical analysis, model test and safety evaluation of hydraulic structures

4. Water Resources and Hydraulic Engineering

structures

Vibration and strength and fault diagnosis of hydro-power generating units

Structural analysis and optimization of hydropower station and nuclear power plant

Optimal dispatching of power generation for inter basin and cascade hydropower stations

Concrete dam construction technology, temperature control and reliability analysis Research and application of new structural materials 5. Harbor, Coastal and Offshore Engineering

Coastal and offshore engineering and its impact on coastal evolution and environment Deep sea engineering

Effects of marine environmental factors and marine disasters on structures Development and utilization of marine space resources and renewable energy Port and offshore engineering structure Port planning and port logistics

#### Mechanical Engineering

This subject is one of the main subjects when our university was founded in 1949. In 1981, the mechanical manufacturing subject was granted as one of the first batch Doctor degree program by the State Council, and in 1988 was approved as the national key discipline by State Education Commission. Mechanical engineering was approved as doctoral degree program of first-level discipline in 2000. 'Mechanical Design / Manufacture and Automation' is the national specialized major and gets the professional certification of national engineering education in 2010. "Precision/Non-traditional machining and micro-manufacturing technology" was listed as one of the key discipline of "985 Project" and "211 Project".

After years of effort, this subject has become a leading academic team leaded by two academicians of Chinese Academy of Science and Chinese Academy of Engineering and formed a young and mid-career academic echelon with new knowledge structure and active academic thinking. There are one national innovation group, one key group awarded by the Ministry of Science and Technology, one innovation group awarded by the Ministry of Education (MOE) and one national teaching group, the National Collaborative Innovation Center of Major Machine Manufacturing in Liaoning, the engineering training center which is one of the first group of key construction of Ministry of Education, the Key Laboratory for Precision and Non-traditional Machining of Ministry of Education, the National Defence Key Laboratory of the Ministry of Education, and Liaoning Provincial Key Laboratory for Micro/Nano Technology and System, and Engineering Research Center for Hoisting Machinery of Liaoning Province and Research Center of Advanced Design and Manufacturing of Vehicle.

In the research in the past five years, this subject undertook two 973 basic research projects (as leading unit) and over 70 other projects including 863 high-tech projects and national key scientific and technological projects. This subject has obtained one of first class of national technology invention award, three national science & technology progress award (second class) and twenty ministerial and provincial awards.

#### **Research directions:**

1. Innovation design of mechanisms and complex electromechanical system

- 2. Sustainable engineering
- 3. Precision & non-traditional machining and integrated manufacturing by adding,

subtracting materials

- 4. High-end equipment manufacturing
- 5. MEMS/NEMS and bio/bionic fabrication
- 6. Intelligent manufacture system and robots

#### Instrument Science and Technology

This subject was granted as approved as doctoral degree program in first-class discipline in 2005 and to set up the Post-Doctoral Research Stations in 2007 and became the first-class key discipline of Liaoning Province. This subject has "Precision Instrument and Machinery" and "Measurement Technology & Instruments" two secondary-class disciplines.

After years of effort, this subject has a high-level teaching staff leaded by one academician of Chinese Academy of Science. This subject has one key laboratory of the Ministry of Education, one National Defence Key Laboratory of the Ministry of Education, one Liaoning Provincial key laboratory and one engineering research center of Liaoning province. Over the 5 years, 80 research projects have been completed and undertaken. One state technological invention award and 8 provincial or ministerial science & technology awards and 58 national patents were obtained. 400 academic papers were published, 108 of which are indexed by SCI.

#### **Research directions:**

- 1. Theory and technology of precision measurement
- 2. Design and manufacturing of precision instruments
- 3. High-performance micro-/nano-sensing and executive devices
- 4. Automatization and intelligentization apparatus

#### Chemical Engineering and Technology

- Chemistry
- Environmental Science and Engineering

## Catalogue of Speciality

### Bachelor Programs

1	Pubic Utility Management	36	Construction Management		
2	Law	37	37 Building Environment and Energy Engineerin		
3	Chinese Language & Literature	38	Transportation Engineering		
4	Radio & TV Broadcasting	39	Pharmaceutical Engineering		
5	Philosophy	40	Chemical Engineering and Technology		
6	Architecture		Macromolecular Materials and Engineering		
7	Urban and Rural Planning	41	Applied Chemistry		
8	Sculpture	42	Chemical Engineering and Technology		
9	Visual Communication Design	43	(English-Medium)		
10	Environmental Design		Process Equipment and Control		
11	Industrial Design	44	Safety Engineering		
12	Mathematics and Applied Mathematics	45	Bioengineering		
13	Information and Computing Science	46	Environmental Science		
14	Applied Physics	47	Environmental Engineering		
15	Photoelectric Information Science and	48	Logistics Management		
	Engineering	49	Business Administration		
16	Material Processing and Control	50	Information Management & Information		
17	Metallic Materials Engineering		Systems		
18	Functional Materials	51	Finance (English Intensive)		
19	Metallic Materials Engineering (Janpanese	52	International Economics & Trade (English		
	Intensive)		Intensive)		
20	Mechanical Design & Manufacturing and	53	International Economics & Trade		
	Automation		(English-Medium)		
21	"Mechanical Design & Manufacturing and	54	English		
	Automation(Janpanese Intensive)"	55	Translation		
22	Mechanical Design & Manufacturing and	56	Japanese		
	Automation (English-Medium)	57	Russian		
23	Measurement Control Technology and	58	Naval Architecture and Ocean Engineering		
	Instruments	59	Engineering Mechanics		
24	Energy and Power Engineering	60	Vehicle Engineering (English Intensive)		
25	Energy and Environment Systems Engineering	61	Flight Vehicle Design & Engineering		
26	Electrical Engineering and Its Automation	62	Chinese Language (Business)		
27	Automation		majors in yellow are English medium.		
28	Electronic and Information Engineering	* 5-	-year Major		
29	Biomedical Engineering				
30	Civil Engineering				
31	Civil Engineering (English-Medium)				
32	Water Conservancy and Hydropower				
33	Engineering				
34	Port, Waterway and Coastal Engineering				
35	Marine Resource Development Technology				

#### Master Programs

1	Fundamental Mathematics	41	Materials Surface Engineering			
2	Computing Mathematics	42	Materials Nondestructive Testing &			
3	Probability Theory and Mathematical		Evaluation			
	Statistics	43	Materials Joining Techniques			
4	Applied Mathematics	44	Biomedical Engineering			
5	Operational Research and Cybernetics	45	Engineering Thermophysics			
6	Financial Mathematics and Actuarial	46	Thermal Power Engineering			
	Sciences	47	Power Machinery and Engineering			
7	Theoretical Physics	48	Fluid Machinery and Engineering			
8	Atom and Molecule Physics	49	Refrigeration and Cryogenic Engineering			
9	Plasma Physics	50	Energy and Environmental Engineering			
10	Condensed Matter Physics	51	Materias Science (Building Materias)			
11	Optics	52	Geotechnical Engineering			
12	Biophysics	53	Structural Engineering			
13	Optical Engineering	54	Municipal Engineering			
14	Microelectronics and Solid Electronics	55	Heat and Gas Supply, Ventilation and Air			
15	Biomedical Engineering		Conditioning Engineering			
16	General Mechanics and Fundamentals of	56	Disaster Prevention & Mitigation			
	Mechanics		Engineering			
17	Solid Mechanics	57	Bridge & Tunnel Engineering			
18	Fluid Mechanics	58	Civil Engineering Management			
19	Engineering Mechanics	59	Hydrology and Water Resources			
20	Computational Mechanics	60	Hydraulics and River Dynamics			
21	Geomechanics and Environmental	61	Hydraulic Structure Engineering			
	Mechanics	62	Hydraulic and Hydro-Power Engineering			
22	Dynamics and Control	63	Port, Coastal and Offshore Engineering			
23	Applied and Experimental Mechanics	64	Pavement and Railway Engineering			
24	Biomechanics and Nanomechanics	65	Traffic Information Engineering & Control			
25	Aerospace Mechanics and Engineering	66	Transportation Planning & Management			
26	Mechanics of Manufacturing Process	67	Polymer Materials			
27	Design and Construction of Naval	68	Chemical Engineering			
	Architecture & Ocean Structures	69	Chemical Technology			
28	Under Water Acoustic Engineering	70	Biochemical Engineering			
29	Vehicle Engineering	71	Applied Chemistry			
30	Aerospace Science and Technology	72	Industrial Catalysis			
31			M I C' IT I I			
32	Mechanical Manufacturing and Automation	73	Membrane Science and Technology			
02	Mechanical Manufacturing and Automation Mechatronic Engineering	73 74	Water Science and Technology			
33						
-	Mechatronic Engineering	74	Water Science and Technology			
33	Mechatronic Engineering Mechanical Design and Theory	74 75	Water Science and Technology Fine Chemicals			
33 34 35 36	Mechatronic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems	74 75	Water Science and Technology Fine Chemicals Functional Materials and Chemical			
33 34 35	Mechatronic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering	74 75 76	Water Science and Technology Fine Chemicals Functional Materials and Chemical Engineering			
33 34 35 36	Mechatronic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument Materials Physics and Chemistry	74 75 76 77	Water Science and Technology Fine Chemicals Functional Materials and Chemical Engineering Energy Chemical Technology			
33 34 35 36 37	Mechatronic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument	74 75 76 77 77	Water Science and Technology Fine Chemicals Functional Materials and Chemical Engineering Energy Chemical Technology Biomedical Engineering			

82	Physical Chemistry	111 Investment			
83	Polymer Chemistry and Physics	112	Business Administration		
84	Fluid Machinery and Engineering	113	Monetary Finance		
85	Chemical Process Equipment	114	Industrial Economics		
86	Safety Science and Engineering	115	International Trade		
87	Medicinal Engineering	116	Philosophy		
88	Pharmaceutical Chemistry	117	Chinese Language & Literature		
89	Environmental Science and Engineering	118	Journalism and Communication		
90	Biology	119	Regional Economics		
91	Bioengineering and Biotechnology	120	Jurisprudence		
92	Electronic Science and Technology	121	Education Science		
93	Information and Communication Engineering	122	Science of Science and Management of		
94	Measuring and Testing Technologies and	123	Science & Technology		
	Instruments		Public Administration		
95	Control Theory and Control Engineering	124	Education Economics and Management		
96	Testing Technology and Automation Devices	125	Marxist Theory		
97	Systems Engineering	126	English Language & Literature		
98	Module Identification and Intelligence System	127	Japanese Language & Literature		
99	Computer Science and Technology	128	Foreign Linguistics & Applied Linguistics		
100	Biomedical Engineering	129	Translation		
101	Electrical Engineering	130	Science of Physical Education		
102	Systems Engineering	131	Research of Fine Arts		
103	Management Science and Engineering	132	Science of Design		
104	Information Management & E-government	133	Software Engineering		
105	Accounting	Majo	ors labeled in yellow		
106	Enterprise Management	are	English-taught programs.		
107	Tourism Management				
108	Technical Economics and Management				
109	Project Management				
110	Environmental Management				

### Ph.D Programs

1	Fundamental Mathematics	40	Materials Nondestructive Testing & Evaluation		
2	Computing Mathematics	41	Materials Joining Techniques		
3	Probability Theory and Mathematical	42	Biomedical Engineering		
-	Statistics	43	Engineering Thermophysics		
4	Applied Mathematics	44	Thermal Power Engineering		
5	Operational Research and Cybernetics	45	Power Machinery and Engineering		
6	Financial Mathematics and Actuarial	46	Fluid Machinery and Engineering		
	Sciences	47	Refrigeration and Cryogenic Engineering		
7	Theoretical Physics	48	Energy and Environmental Engineering		
8	Particle Physics and Atomic Nucleus	49	Materias Science (Building Materias)		
	Physics	50	Geotechnical Engineering		
9	Atom and Molecule Physics	51	Structural Engineering		
10	Plasma Physics	52	Municipal Engineering		
11	Condensed Matter Physics	53	Heat and Gas Supply, Ventilation and Air		
12	Optics		Conditioning Engineering		
13	Optical Engineering	54	Disaster Prevention & Mitigation Engineering		
14	Microelectronics and Solid Electronics	55	Bridge & Tunnel Engineering		
15	General Mechanics and Fundamentals of	56	Civil Engineering Management		
	Mechanics	57			
16	Solid Mechanics	58			
17	Fluid Mechanics	59			
18	Engineering Mechanics	60	Hydraulic and Hydro-Power Engineering		
19	Computational Mechanics	61	Port, Coastal and Offshore Engineering		
20	Geomechanics and Environmental	62	Polymer Materials		
_		62 63			
_	Geomechanics and Environmental		Polymer Materials		
20	Geomechanics and Environmental Mechanics	63	Polymer Materials Chemical Engineering		
20 21	Geomechanics and Environmental Mechanics Dynamics and Control	63 64	Polymer Materials Chemical Engineering Chemical Technology		
20 21 22	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics	63 64 65	Polymer Materials Chemical Engineering Chemical Technology Applied Chemistry		
20 21 22 23	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics	63 64 65 66	Polymer Materials Chemical Engineering Chemical Technology Applied Chemistry Industrial Catalysis		
20 21 22 23 24	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering	63 64 65 66 67	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology		
20 21 22 23 24 25	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology		
20 21 22 23 24 25	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Fine Chemicals		
20 21 22 23 24 25 26	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> </ul>	Polymer Materials Chemical Engineering Chemical Technology Applied Chemistry Industrial Catalysis Membrane Science and Technology Water Science and Technology Fine Chemicals Functional Materials and Chemical Engineering		
20 21 22 23 24 25 26 27	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology		
20 21 22 23 24 25 26 27 28	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry		
20 21 22 23 24 25 26 27 28 29	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Analytical Chemistry		
<ol> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> </ol>	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mechatronic Engineering	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry		
20 21 22 23 24 25 26 26 20 30 31 32 32 33	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry         Physical Chemistry (including Chemical		
20 21 22 23 24 25 26 27 28 29 30 31 31 32 33 34	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> <li>75</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry         Physical Chemistry (including Chemical Physics)		
20 21 22 23 24 25 26 20 27 28 29 30 31 31 32 33 33 34 35	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> <li>75</li> <li>76</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry         Physical Chemistry (including Chemical Physics)         Polymer Chemistry and Physics		
20 21 22 23 24 25 26 27 28 27 28 29 30 31 31 32 33 34 35 36	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument Materials Physics and Chemistry	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> <li>75</li> <li>76</li> <li>77</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry         Physical Chemistry (including Chemical         Physics)         Polymer Chemistry and Physics         Chemical Process Equipment		
20 21 22 23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument Materials Physics and Chemistry Materials Science	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>67</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> <li>75</li> <li>76</li> <li>77</li> <li>78</li> <li>79</li> <li>80</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Energy Chemical Technology         Inorganic Chemistry         Organic Chemistry         Physical Chemistry (including Chemical         Physics)         Polymer Chemistry and Physics         Chemical Engineering		
20 21 22 23 24 25 26 27 28 27 28 29 30 31 31 32 33 34 35 36	Geomechanics and Environmental Mechanics Dynamics and Control Applied and Experimental Mechanics Biomechanics and Nanomechanics Aerospace Mechanics and Engineering Mechanics of Manufacturing Process Design and Construction of Naval Architecture & Ocean Structures Under Water Acoustic Engineering Vehicle Engineering Mechanical Manufacturing and Automation Mecharonic Engineering Mechanical Design and Theory Micro Electro Mechanical Systems Industrial Engineering Precision Instrument and Machinery Measuring Technology and Instrument Materials Physics and Chemistry	<ul> <li>63</li> <li>64</li> <li>65</li> <li>66</li> <li>68</li> <li>69</li> <li>70</li> <li>71</li> <li>72</li> <li>73</li> <li>74</li> <li>75</li> <li>76</li> <li>77</li> <li>78</li> <li>79</li> <li>79</li> </ul>	Polymer Materials         Chemical Engineering         Chemical Technology         Applied Chemistry         Industrial Catalysis         Membrane Science and Technology         Water Science and Technology         Water Science and Technology         Fine Chemicals         Functional Materials and Chemical Engineering         Panalytical Chemistry         Organic Chemistry         Physical Chemistry (including Chemical         Physics)         Polymer Chemistry and Physics         Chemical Engineering         Phamaceutical Engineering		

83	Biochemical Engineering	101	Information Management & E-governmen		
84	Bioengineering and Biotechnology	102	Transportation Systems Engineering		
85	Circuits and Systems	103	Accounting		
86	Microelectronics and Solid Electronics	104	Enterprise Management		
87	Communication and Information System	105	Tourism Management		
88	Signal and Information Process	106	Technical Economics and Management		
89	Control Theory and Control Engineering	107	Project Management		
90	Navigation, Guide and Control	108	Environmental Management		
91	Computer Software and Theory	109	Investment		
92	Computer Application Technology	110	Philosophy		
93	Biomedical Engineering	111	Science of Science and Management of		
94	Electric Machines and Electric Apparatus	112	Science & Technology		
95	Power System and Its Automation		Education Management		
96	High Voltage and Insulation Technology	113	Marxist Theory		
97	Power Electronics and Electrical Drives	114	Architecture		
98	Theory and New Technology of Electrical	115	Urban and Rural Planning		
	Engineering	116	Software Engineering		
99	Management Science and Engineering	The	majors in yellow are both Chinese and		
100	Analysis and Management of Economic		ish medium.		
	System				



## Scholarships

#### Scholarships available:

- Chinese Government Scholarship
- Confucius Institute Scholarship
- Liaoning Provincial Government Scholarship
- DUT International Students Presidential Scholarship (DUT Scholarship)

More details are found at http://sie.dlut.edu.cn.

#### Chinese Government Scholarship (CSC):

This scholarship is only for the international students who would like to complete master or Ph.D. degree programs at our university.

Application time: December to mid-March of next year.

The Agency No. of DUT in the CSC online application system is 10141.

For more details on scholarship application procedure, please refer to CSC website: http://www.csc.edu.cn/Laihua

#### Confucius Institute Scholarship (CIS):

The scholarship is provided to

1. outstanding students of Confucius Institutes (Classrooms)

2. winners of the "Chinese Bridge" Chinese Proficiency Competitions for Foreign College Students and Foreign High School Students

3. overseas local Chinese Language teachers, outstanding graduates of Chinese language across the world

4. outstanding performers on the HSK

Our university offers CIS scholarship to One-Academic Year Students and One-semester Students.

Application Time: Mid-January to April each year.

The applicants should submit the required documents to recommending institutions during the application period.

For more details on CIS scholarship application procedure, please refer to Confucius Institute Headquarters at http://cis.chinese.cn

#### Liaoning Government Scholarship (LSC):

This scholarship is only for the international students who would like to complete PH.D degree programs at our university.

Application Time: December to mid-March of next year.

For more details on scholarship application procedure, please refer to our website: http://sie.dlut.edu.cn

## DUT International Students Presidential Scholarship (DUT Scholarship):

The scholarship is open to the international students who would like to pursue master or Ph.D. programs at DUT.

Application Time: December to mid-March of next year.

There are two levels of DUT scholarship: Full Scholarship (tuition, accommodation living allowance included)

Partial Scholarship (only tuition is waived)

For more details on scholarship application procedure, please refer to our website: http://sie.dlut.edu.cn

## Job Opportunities

With the development of China's economy, more and more industries have adopted globalization as their strategy. Dalian University of Technology, situated in the heart of hi-tech zone, has broad links with industries and businesses in Dalian. There are several job fairs held every year at DUT which provide a multitude of job opportunities ranging from engineering, business administration, foreign trade, market development, IT, etc. DUTSIE also has links with a number of firms and corporations in Dalian and other central cities in China which need international talents to develop their global market.

## Accommodation

SIE provides international students with comfortable apartments at the prices of at least 900 RMB/room/month (rent for at least three months). Rooms are facilitated with internet access, television and bathroom with 24-hour hot water. On each floor, there are public kitchen and laundry for International students. Students can live off campus too. The International Students Office will help providing the rent information.



## Fees (CNY)

### Tuition

Student Types	Duration	Tuition Fee (CNY)	Application Fee (CNY)
	One Week	1,800	
	Two Weeks	2,200	
	Three Weeks	2,600	400
Chineses Language	Four Weeks	3,000	400
Chinese Language Program	Two Months	5,000	
	Three Months	7,000	
	One Semester	8,500	500
	One Year	16,000	
Undergraduates (Chinese, Foreign Languages, Humanities and Social Sciences)		19,500	
Undergraduates (Science and Technology, Economics and Management)	One Year (Bachelor is 4 - year program* Master is 3 - year Program Ph.D is 4 -	20,500	
Undergraduates (Architecture)		22,500	
Undergraduates (Art Design)		25,000	
Undergraduates (English-taught Programs)		25,500	
Graduates(Humanities and Social Sciences, Foreign Languages)		23,000 28,000(English -taught programs)	800
Graduates(Science and Technology, Economics and Management)	year Program)	24,500 29,500(English -taught programs)	
Graduates (Architecture)	1	26,500	
Graduates (Arts)	1	28,500	
Ph.D.(Humanities and Social Sciences, Foreign Languages)		31,000	
Ph.D.(Science and Technology, Economics and Management)		33,000	
Ph.D. (Courses in English)		40,000	

#### Accommodation Fee

Accommodation	Туре	Rate/Month	Facilities	Public Facilites	Note
Ph.D &	Single Room	900	Internet Access, Desk, Wardrobe, Bathroom, Shower	, Machine,	Stay for more than 3 months
International	Double Room	600			Internet at own expense
Student Domitory	Single Room	1800			Stay for less than 3 months
Donneory	Double Room	1200		Oven	Internet at own expense
Home-stay		negotiated between the host family and the student	Offered a sep breakfast a		

Note: Prices are subject to change.



## Life @ DUT

#### Meal

Students have a multitude of dining options within walking distance of campus. Students will be able to eat in the University dining hall or at any of the many local restaurants immediately off campus. A public kitchen is also available for participants who would like to prepare their own food. The approximate daily cost of food is 20-40RMB.

#### **Banking and Shopping**

There are banks near the university, such as Bank of China, Industrial and Commercial Bank of China, China Construction Bank and Agricultural Bank of China which make it convenient for students to open an account and exchange currency. Nearby shopping malls include Wanda Plaza, Sunrise Shopping Center etc. and there are several grocery stores on campus.

#### Medical Treatment and Insurance

The insurance fee is on the International students' own expense. University Clinic is at service for common illness while the Second Attached Hospital to Dalian Medical University (Buses No.23, 901 and 406 can reach the hospital.) is available for the acute and serious diseases. Medical insurance and life accident insurance must be purchased by International students who have no insurance in China.



#### **Transportation and Communications**

The university is 14 kilometers away from the city center, that is, 30-35 minutes by taking buses No. 23, 901 and 406, or 20 minutes by taxi. It takes 15 minutes by taxi to reach Dalian International Airport, which is approximately 12 kilometers away.

There is internet access in student dormitory. Mails will be sent to the international students' office. There is a post office at the north gate of the school where express mail and packages can be delivered.



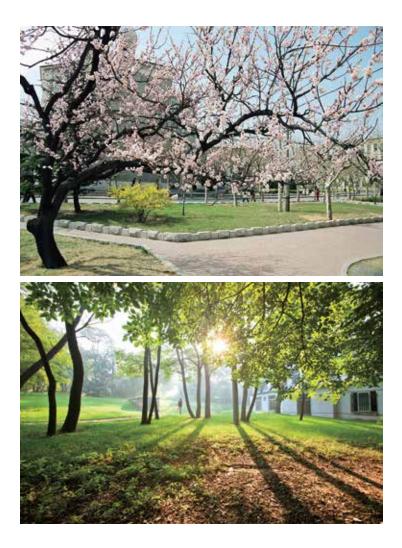
## About the City of Dalian

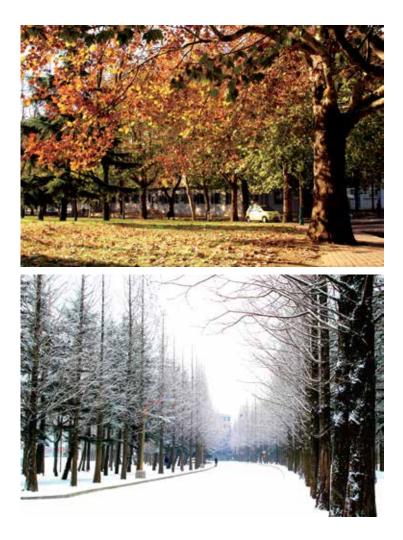
Dalian, the second largest city in Liaoning province, is at the southern tip of Liaodong Peninsula. It is located west of Yellow Sea and east of Bohai Sea. Dalian is one of the five cities specially designated in the state plan and one of the fifteen cities of sub-provincial administrative status in China, as well as one of the fourteen open coastal cities in China. As a window for northeast China to open to the world, Dalian is also the shipping, logistics and regional financial center of Northeast Asia.

As a coastal city in Northeast China, Dalian is neither bitterly cold in winter nor extremely hot in summer. It is, therefore, famous as "window of Northeast China", "Pearl of North China" and "City of Romance". In 2001, the United Nations Environment Program awarded Global 500 Roll of Honor for Environmental Achievement to Dalian, marking it the first Chinese city to win this honor. In 2006, it was one of the three cities named as "The Best Cities to Visit in China", along with Chengdu and Hangzhou.

Dalian is the host city of Annual Meeting of the New Championship, also known as Summer Davos. In 2010, Dalian was listed as the eighth most competitive cities in China (Hong Kong SAR, Macau SAR and Taiwan province included).











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