

Table of Contents

Sino-German College for Postgraduate Studies (CDHK)	2
School of Economics and Management (SEM)	2
College of Architecture and Urban Planning (CAUP)	2
College of Civil Engineering	2
School of Mechanical Engineering (SME)	3
College of Electronic and Information Engineering (CEIE).....	5
School of Automotive Studies.....	5
College of Transportation Engineering	6
School of Materials Science and Engineering	7
School of Law.....	8
Shanghai International College of Intellectual Property.....	9
School of Political Science and International Relations	12
School of Ocean and Earth Science	13
School of Physics Science and Engineering.....	13
School of Chemical Science and Engineering	13
School of Aerospace Engineering and Applied Mechanics.....	14
School of Foreign Studies.....	15
School of Life Science and Technology	16
School of Mathematical Sciences	16
School of Medicine	17
College of Design and Innovation	18
School of Computer Science and Technology	19
Sino-German College of Applied Sciences	20
Institute of Vocational Education (CDIBB)	21
College of Environmental Science and Engineering.....	22
College of Arts and Media	22
International School.....	23

Important Note: This list is only a kind of orientation. The actual course list of every term can be only determined at the term beginning.

Sino-German College for Postgraduate Studies (CDHK)

CDHK has four departments: Mechanical Engineering ([Jiading Campus](#)), Vehicle Engineering ([Jiading Campus](#)), Electro-technology ([Jiading Campus](#)), Economics and Management ([Siping Campus](#)).

List of Courses: <https://cdhk.tongji.edu.cn/cdhkDE/27171/list.htm>

School of Economics and Management (SEM)

Siping Campus

Courses at Bachelor Level: http://sem.tongji.edu.cn/semen/?page_id=17150

Courses at Master Level: http://sem.tongji.edu.cn/semen/?page_id=17152

Master students could also attend courses at Sino-German School for Graduate Studies (CDHK):

<https://cdhk.tongji.edu.cn/cdhkDE/27171/list.htm>

College of Architecture and Urban Planning (CAUP)

Siping Campus

Course Offer:

<https://caup.tongji.edu.cn/caupen/t1428/CourseOffer/list.psp>

Semester Schedule:

<https://caup.tongji.edu.cn/caupen/6e/82/c33820a355970/page.htm>

<https://caup.tongji.edu.cn/caupen/44/96/c33820a345238/page.htm>

College of Civil Engineering

Siping Campus

Courses at Bachelor Level:

Course Code	Course Name	Hours per Week
50001820058	Fundamentals of Civil-Informatics	3
50001820100	Linear Algebra B	3
50001820102	Artificial Intelligence Science and Technology	2
50001820103	Civil Engineering Materials	2
50001820107	Engineering Mechanics (2)	3
030519	Structural Mechanics	4
50001820062	Engineering Graphics II	2

123002	Experiments of General Chemistry	1
50005890003	General chemistry B	3
50001820060	Civil Engineering and Civil Engineers	2
030517	C++ Programming	3
100338	Computer Basics	4
50002810002	Experiments of College Physics (1)	2
50002810047	College Physics (Accurate) II(1)	3
50001820098	Advanced Mathematics(B) 1	5
130179	College Chinese I	6

Courses at Master/Doctoral Level:

Course Code	Course Name	Credit	Level
20001820023	Structural Dynamics	3	Master/Doctoral
20001820034	Geophysical Exploration and Intelligent Interpretation	2	Master
20001820043	Deep Engineering Porous Media Mechanics	2	Master
20001820051	Civil Engineering Visualization Monitoring Technology	2	Master
20001820061	Environmental Engineering Geology and Ecological Technology	2	Master
2020011	Non-saturated Soil Mechanics	2	Master
2020388	Advanced Structural Steel Theory	2	Master/Doctoral
2020405	Advanced Bridge Structure Theory	3	Master/Doctoral
2020418	Elastic-plastic Mechanics	3	Master/Doctoral
2020572	Building Structure Repair and Reinforcement	2	Master/Doctoral
2020575	Geological Engineering Risk Analysis	2	Master

*Master students could also take courses at Bachelor level, but Bachelor students are not allowed to take courses at Master Level.

School of Mechanical Engineering (SME)

Jiading Campus

Courses at Bachelor Level:

Course Code	Course Name	Hours	Credit	Language	Semester
04002701	Ventilation Airflow Technology	17	1	Bilingual	Fall
04013201	Systems Engineering	34	2	Bilingual	Fall
04017001	Metallurgical Engineering	68	4	English	Fall
04017201	Engineering Materials	68	4	English	Fall
04017501	Fundamentals of Mechanical Design	68	4	English	Fall
04018301	Basic Mechanics	68	4	English	Fall
04026801	Building Environment	34	2	Bilingual	Fall
04031101	Building Energy Simulation	17	1	English	Fall
04034701	Fluid Mechanics and Hydraulic Transmission	34	2	Bilingual	Fall

04040101	Service Engineering	17	1	Bilingual	Fall
04041901	Intelligent Building Facilities	17	1	English	Fall
04042001	Regional Load and Energy System Optimization	17	1	English	Fall
04050801	Engineering Thermodynamics and Heat Transfer	34	2	English	Fall
04055502	Heat Transfer	51	3	English	Fall
04063502	Ventilating Engineering	34	1.5	Bilingual	Fall
4011701	Heat Transfer	68	4	English	Spring
4106501	Engineering Thermodynamics	68	4	English	Spring
4000201	Air Conditioning Engineering	51	3	English	Spring
4016601	Engineering Economics	68	4	English	Spring
4017301	The Foundation of Manufacturing Technology	68	4	English	Spring
04050104	Fundamentals of Robotics and Artificial Intelligence	34	2	English	Spring

Courses at Master Level:

Course Code	Course Name	Hours	Credit	Language	Semester
20001700006	Production Planning and Scheduling Method	36	2	English	Fall
20001700012	Digital Twins in Systems Engineering	20	1	German	Fall
20001700016	Computer Aided Design and Manufacturing	20	1	German	Fall
20001700017	The Theory of Machining Process	20	1	German	Fall
20001700019	Manufacturing Systems Engineering	36	2	German	Fall
20001700020	Manufacturing Systems Engineering B	20	1	German	Fall
2030055	Numerical Heat Transfer	54	3	English	Fall
2030098	Work Study	36	2	English	Fall
2030244	Factory Physics	36	2	English	Fall
2030290	Non-traditional Machining and the Die & Mold Design and Manufacturing	36	2	English	Fall
2030299	Automotive Manufacturing Technology and Quality Control	36	2	English	Fall
2030301	Introduction to Robotics	36	2	English	Fall
2030305	Introduction to Engineering Research	36	2	German	Fall
2030316	Factory Planning and Logistics Systems Design B	20	1	German	Fall
2030317	Factory Planning and Logistics Systems Design	36	2	German	Fall
2030318	Planning of Intralogistics Systems in an International Context	36	2	English	Fall
20001700056	Digital Twins in Systems Engineering	20	1	German	Fall
2030311	Modern Quality Management	20	1	German	Fall
20001700052	AI in Production: Theory and Practice	20	1	German	Fall

20001700051	Fluid Power	20	1	German	Fall
2030056	Computational Fluid Dynamics	54	3	English	Spring
20001700002	Case Analysis of HVAC and Gas Engineering	36	2	Bilingual	Spring
20001700014	General Spatial Mechanical Systems	36	2	Bilingual	Spring
2030056	Computational Fluid Dynamics	54	3	English	Spring
2030074	Building Energy Efficiency Technology	36	2	English	Spring
2030247	Matlab Programming for Mechanical Design	36	2	English	Spring

Master students could also attend courses at Sino-German School for Graduate Studies (CDHK):

<https://cdhk.tongji.edu.cn/cdhkDE/27171/list.htm>

* Bilingual courses: the teaching language on class is in Chinese and the teaching materials are in English.

College of Electronic and Information Engineering (CEIE)

Jiading Campus

Course List: https://see-en.tongji.edu.cn/useful_Information/Download.htm

* Bilingual courses: the teaching language on class is in Chinese and the teaching materials are in English.

Master students could also attend courses at Sino-German School for Graduate Studies (CDHK):

<https://cdhk.tongji.edu.cn/cdhkDE/27171/list.htm>

School of Automotive Studies

Jiading Campus

Courses at Bachelor Level:

Course Code	Course Name	Credit	Hours	Language	Level	Semester
190014	Mechanical Vibration	2	34	English	Bachelor	Fall
190020	Theory of Automobile	3	51	English	Bachelor	Fall
190085	Automotive Marketing and Selling	2	34	English	Bachelor	Fall
190175	Automotive Industry Economy	2	34	English	Bachelor	Fall
190020	Theory of Automobile	3	51	Bilingual	Bachelor	Fall
190142	Foundations of Mechanics	4	68	Bilingual	Bachelor	Fall
190111	Auto Modal Experiment Technology	2	34	Bilingual	Bachelor	Fall
190015	Automotive Construction	5	85	English	Bachelor	Spring
190201	Vehicle Noise and Vibration	2	34	English	Bachelor	Spring
190178	Transportation Design 2	2	34	English	Bachelor	Spring
190081	Combustion Fundamentals	2	34	Bilingual	Bachelor	Spring
190112	Car Body Technology	3	51	Bilingual	Bachelor	Spring

Courses at Master/Doctoral Level:

Course Code	Course Name	Credit	Hours	Language	level	Semester
2180108	Vehicle System Dynamics	3	54	English	Master	Fall
2180138	Automobile Product Management and Marketing	3	54	English	Master	Fall
2180140	Automotive PEM Fuel Cell System Modeling, Simulation and Control Basics	2	36	English	Master	Fall
2180142	Model Analysis and Experiment	3	54	English	Master	Fall
2180143	Introduction to Vehicle Aerodynamics and Vehicle Body Engineering	2	36	English	Master	Fall
2180144	Engineering Signal Analysis and Process	2	36	English	Master	Fall
2180147	Vehicle Noise and Vibration	2	36	English	Master	Fall
2180162	Automobile Energy Conservation and Emissions	2	36	English	Master	Fall
2180141	Electronic Controlled Fuel Injection and Combustion	3	54	English	Master	Spring
1180088	Advanced Combustion and Engine Technology	2	36	English	Doctoral	Fall
1180095	Automobile Product Management and Marketing	3	54	English	Doctoral	Fall

Master students could also attend courses at Sino-German School for Graduate Studies (CDHK):

<https://cdhk.tongji.edu.cn/cdhkDE/27171/list.htm>

College of Transportation Engineering

Jiading Campus

Courses at Bachelor Level:

Course Code	Course Name	Weekly Hours	Semester
50002270082	Technologies of Transportation System Simulation	2	Fall
150386	Traffic Engineering	2	Fall
50002270054	Train Operation Organization	2	Fall
150387	Traffic Information Engineering	2	Fall
430132	Mechatronics System Design Technology	2	Fall
50002270007	Transport Economics	2	Spring
50002270008	Operations Research	2	Spring
50002270011	Intelligent Transportation System	2	Spring
50002270027	Travel Behavior Analysis	2	Spring
430164	Health Management of Railway Vehicle	2	Spring

Courses at Master Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
2120299	Railway Engineering	36	2	English	Fall
2120258	Railway Operation Management	36	2	English	Fall
2120297	Traffic System Engineering	36	2	English	Fall
2120300	Transportation Safety	36	2	English	Fall
2120303	Traffic Design	36	2	English	Fall
2120301	Transportation Data Collection and Analysis	36	2	English	Spring
2120305	Traffic Management & Control II	36	2	English	Spring

Courses at Doctoral Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
1120190	The Analysis of Transportation System	36	2	English	Spring
1120214	Highway and Airport Engineering	36	2	English	Fall
1120209	Analysis Methods for Transportation Information Engineering System	36	2	English	Spring
10007230005	Modern Traffic Safety System Design and Control	36	2	English	Fall
10007230006	Safety and Durability of Transportation Infrastructures	36	2	English	Spring
10007230004	Autonomous Transportation Technology	36	2	English	Spring
10007230003	Transportation Network Modeling and Optimization	36	2	English	Spring

School of Materials Science and Engineering

 Jiading Campus

Course Code	Course Name	Level	Language	Credit	Semester
080198	Current Status and Development Trends in New Materials Science	Bachelor	English	2	Fall
080254	Cementitious Materials and Preparation Processes	Bachelor	English	2	Spring
080284	Polymer Materials Molding Processes and Equipment	Bachelor	English	2	Spring
50002150008	Modern Preparation Techniques for Inorganic Materials	Bachelor	English	2	Spring
20002150010	New Semiconductor Materials and Intelligent Sensing Devices	Master	English	2	Fall

2060084	Metallic Glass & Nanocrystalline Materials	Master	English	2	Spring
2060222	Energy Materials	Master	English	2	Spring
2060224	Functional Polymeric Materials	Master	English	2	Spring
2060246	Introduction to Optical Materials	Master	English	2	Spring
2060250	Sensors and Transducers	Master	English	2	Spring
2060261	Cement Chemistry	Master	English	2	Spring
2060267	Science of Concrete	Master	English	2	Spring
1060190	Materials Chemistry	PhD	English	2	Fall

School of Law

Siping Campus

Courses at Bachelor Level: none

Courses at Master Level:

Course Category	Course Code	Course Name	Credits	Total Hours	Semester
Common Course	2300001	Chinese Language	3	72	Spring/Fall
Core Course	20003260023	Chinese Judicial System and Procedural Law	2	36	Spring
	20003260008	Chinese Constitutional and Administrative Law	2	36	Spring
	2070164	International Intellectual Property Right Law	2	36	Fall
	2240039	Seminar on Criminal Law	2	36	Spring
	2240081	Chinese Legal System	2	36	Fall
	2240085	China's Civil Law	2	36	Fall
	2240112	Comparison between Chinese Contract Law			Fall
Elective Course	20003260003	Alternative Dispute Resolution in China	2	36	Spring
	20003260009	International Law and Global Governance	2	36	Spring
	20003260011	Chinese IP Law and Anti-unfair Competition Law	2	36	Spring
	20003260013	Economic Governance and Chinese Regional Integration	2	36	Spring
	20003260056	Cyber and Information Law	2	36	Spring
	20003260058	International Commercial Arbitration	2	36	Spring
	20003260019	Chinese Foreign Investment and Trade Law	2	36	Spring

	20003260030	Chinese Environmental Governance and Law	2	36	Spring
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Shanghai International College of Intellectual Property

Siping Campus

Only Courses at Master Level:

Semester	Module	Course Name
WS 2025	Module 1: Introduction to Intellectual Property Law	<ul style="list-style-type: none"> - Introduction to Intellectual Property - Fundamental Principles of Copyright and Design Law - Fundamental Principles of Patent Law - Fundamental Principles of Trademark Law - Primary European Union Law - World Intellectual Property Organization (WIPO) Activities - Secondary European Union Law - European Union Law in the Judiciary
	Module 2: IP & Innovation Policy	<ul style="list-style-type: none"> - Intellectual Property and Public Policy - Function of IP Policy and Innovation Incentives - Policy Games in International Technology Standards - Formulation and Implementation of AI Industry Policies - Policy Coordination in IP Administration - Interaction Between Corporate Innovation Strategies and Policies - Open-Source Ecosystem and IP Policy Conflicts
	Module 3: Patent Law	<ul style="list-style-type: none"> - European Patent Law - Protection of Undisclosed Information - Patent Cooperation Treaty (PCT) and new developments - International Patent Law and new developments TRIPS Agreement - Chinese Patent Law - Plant Variety Protection and the International Union for the Protection of New Varieties of Plants (UPOV) - Structure and Task of Administrative Authority - Utility Model law - Administrative Sanctions

	Module 4: Trademark Law and Geographical Indications	<ul style="list-style-type: none"> - International Law on Trademarks - International Law on GIs - Comparative Law on GIs - Trademark Law Introduction - Rights Conflict between Trademark and other IPRs - Domain Names Right's Legal Protection - Trademark Infringement - Well-known Trademark Legal Protection Chinese GIs Law
	Module 5: Copyright Law	<ul style="list-style-type: none"> - International Law: Copyright and Related Rights, and New Development - New Trends and Developments at National Level - Chinese Copyright Law/Case Studies - Collective Management Organizations (CMOs) - Data base Protection and the EU in Comparison - Internet Service Provider (ISP) Liability of China and the EU in Comparison
	Module 6: IP & Business Strategy	<ul style="list-style-type: none"> - Introduction: Exploiting the IP system - IP Strategy in the Digital Era - IP and Business Model Innovation - Building Business Ecosystems with IP - Combing IP with Business Models - The Strategic Use of Protection Mechanism - Culture Industry and Copyright Protection
SS2026	Module 7: Competition Policy and Law	<ul style="list-style-type: none"> - Introduction to Competition Law - Prohibition of Monopoly Agreement and its Exemptions - Definition of Relevant Market - Private Enforcement of the Competition Law - Public Enforcement of the Competition Law - Introduction to the Intellectual Property / Antitrust Interface: European Competition Law - IP Rights and the Abuse of a Dominant Position
	Module 8: IP in Digital Economy	<ul style="list-style-type: none"> - Fundamental Knowledge of IP in Digital Economy - IP Issues Related to Data - Music in the Era of Artificial Intelligence - The 'opt out' Mechanism for Artificial Intelligence Training - Intellectual Property and Data issues related to Intelligent Connected Vehicle
	Module 9: IP in Biomedicine	<ul style="list-style-type: none"> - Intellectual Property and Biotechnology

	<ul style="list-style-type: none"> - Pharmaceutical Patents - Intellectual Property and Biotechnology - Pharmaceutical Patents - Biotechnology, Bioethics and Medical Law - Drug Patent Linkage and Term Extension
Module 10: IP Intelligence	<ul style="list-style-type: none"> - Theory and Methods in Patent Landscape Analysis and Technology Forecasting - Introduction to IP Information and Database - Hands-on Training of IP Information Search - Theory and Methods of Patent Portfolio Evaluation - Theory of Causal Effect Analysis - Patent Data Analytics for Innovation Management
Module 11: IP Asset Management	<ul style="list-style-type: none"> - IP Asset Evaluation - IP Asset Commercialization - IP Value Theory - IP Asset Evaluation - IP Asset Market Mechanisms - IP Asset and Public Policy - Emerging Technologies and IP Management
Module 12: International IP Law	<ul style="list-style-type: none"> - Typical Regional IP Legal System - Typical Cases and Problems - Special lecture for all the students of the SICIP - General International IP Legal System - Moot Debate - Solution to International IP Disputes: International IP Treaties
Module 13: Judicial Protection of IP Rights	<ul style="list-style-type: none"> - Moot Court Training - Demonstration of Moot Court - Judicial Protection of Copyright - Judicial Protection of Trademark Right - Judicial Regulation of Commercial Defamation - Damages of IPRs Dispute
Module 14: Protection of IPRs under criminal law	<ul style="list-style-type: none"> - The Basic Theory of Chinese Criminal Law & Criminal Policy of Combating IP Crime - Combating IP Crime through Criminal Procedure Law - Role of IP-Rights Holders in Criminal Proceedings - Overview of Intellectual Property Prosecution System - Criminal Prosecution of Copyright Infringement in

		Practice
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School of Political Science and International Relations

Siping Campus

Course Name	Credit	Semester
Studies on China-EU Relations	2	Fall
Government and Politics of Contemporary China	2	Spring
China in Global Security Governance	2	Spring
Foreign Policy Analysis	2	Fall
China and Global Cyberspace Governance	2	Spring
Resource & Environment Governance in Global Politics	2	Fall
Theory and Practice of Public Policy	2	Spring
Theories of Justice	2	Fall
Classic Literature on Global Governance	2	Spring
International Communication and China	2	Spring
East Asia Studies	2	Spring
Globalization, Consumption and Social Change of Contemporary China	2	Spring
China's Foreign Relations and Case Studies	2	Fall
International Organization and China's Foreign Policy	2	Fall
International Relations Theories Studies	2	Spring
Policy Science	2	Spring
International Relations between China and Southeast Asia	2	Fall
National Security in the AI Era	2	Spring
International Development Studies	2	Fall
Political and Economic Dynamics of Europe	2	Spring

School of Ocean and Earth Science

Siping Campus

Course Code	Course Name	Language	Credit	Semester Hours	Semester	Level
1190050	Recent Development of Marine Sedimentology	English	3.0	54	Fall	PhD
1190107	Clay Sedimentology	English	2.0	36	Fall	PhD
2190097	Clay Sedimentology	English	2.0	36	Fall	PhD
2190747	Physical Oceanography	English	2.0	36	Fall	PhD

School of Physics Science and Engineering

Siping Campus

Course Name	Weekly Hours	Credit	Language	Level
Medical Physics (English)	2	2	English	Bachelor
Experiment of Medical Physics (English)	1	0.5	English	Bachelor
Electromagnetics	3	3	English	Bachelor
Experiments of College Physics (1)	2	1	English	Bachelor
Experiments of College Physics (2)	2	1	English	Bachelor
College Physics (Accurate) II Part 1	3	3	English	Bachelor
College Physics (Accurate) II Part 2	3	3	English	Bachelor
Optical Measurement of Low-dimensional Materials	2	2	English	Bachelor
Introduction to Complex Systems and Nonlinear Dynamics	2	2	English	Bachelor/ Master
Nanoscale Heat Conduction	2	2	English	Master
Modern Computational Physics	3	3	English	Master

School of Chemical Science and Engineering

Siping Campus

Courses at Bachelor Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
00401201	Organic Chemistry (I) (Honors)	48	3	English	Fall
12300201	General Chemistry Laboratory	16	0.5	English	Fall
5000589000301	General Chemistry B	48	3	English	Fall
00401301	Organic Chemistry (II) (Honors)	51	3	English	Spring

12326801	Medical Chemistry	51	3	English	Spring
12326901	Medical Chemistry Laboratory	34	1	English	Spring

Courses at Master Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
1104075	Modern Bioinorganic Chemistry	32	2	English	Fall
1104086	Green Organic Synthesis Methods	32	2	English	Fall
1104089	Advanced Electrochemistry	32	2	English	Fall
1104098	Chemistry and Physics of Photofunctional Materials	32	2	English	Fall
1104101	Advanced Polymer Materials	32	2	English	Fall
2104069	Modern Inorganic Synthesis and Preparation Chemistry	32	2	English	Fall
1104075	Modern Bioinorganic Chemistry	32	2	English	Spring
1104089	Advanced Electrochemistry	32	2	English	Spring
1104101	Advanced Polymer Materials	32	2	English	Spring
2104022	Bioinorganic Chemistry	32	2	English	Spring
2104165	Biological Mass Spectrometry	32	2	English	Spring

School of Aerospace Engineering and Applied Mechanics

Siping/Zhangwu/Jiading Campus

Courses at Bachelor Level:

Course Code	Course Name	Weekly Hours	Credit	Language	Semester
450063	Aerial Material	3	3	English	spring
450175	Engineering Mechanics (1)	5	5	English	spring
450276	Mechanical Properties of Materials	1.5	2	English	Fall

Courses at Master Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
1101099	Advanced Aerodynamics	36	2	English	Fall
2101104	Composite Materials	36	2	English	Fall
2101126	Functional and Intelligent Materials	36	2	English	Fall
2101097	Computational Fluid Dynamics	54	3	English	Spring
2101113	Compressible Flow	54	3	English	Spring
2101103	Aircraft Performance and Design	54	3	Bilingual	Fall
2101110	Nanocomposites	54	3	Bilingual	Spring

School of Foreign Studies

Siping Campus

Courses at Bachelor Level:

Course Code	Course Name	Weekly Hours	Credit	Language	Semester
110272	Intercultural Communication	2	2	English	Fall
110273	English Literary Classics in Movies	2	2	English	Spring
110317	English Debating	2	2	English	Spring

Courses at Master Level:

Course Code	Course Name	Semester Hours	Credit	Language	Semester
2090102	Interpreting Theory and Skills	36	2	English	Fall/Spring
2090251	Translation Workshop	36	2	English	Fall/Spring
2090252	Chinese-English Translation Theory and Practice (I)	36	2	English	Fall/Spring
2090253	English-Chinese Translation Theory and Practice (I)	36	2	English	Fall/Spring
2090188	An Introduction to Translation Studies	32	2	English	Fall/Spring
2090168	The History of Translation in China and the West	32	2	English	Fall/Spring
20002680037	Intelligent Technical Communication	32	2	English	Fall/Spring
20002680003	Advanced Chinese-English Translation	32	2	English	Fall/Spring
2090325	Translation of Chinese Red Culture	32	2	English	Fall/Spring
20002680031	Rewriting Literary History and Cultural Studies	32	2	English	Fall/Spring
2090021	Language and Culture	32	2	English	Fall/Spring
2090147	Literary Translation	32	2	English	Fall/Spring
2090216	Latest Developments in Foreign Literatures and Cultures	32	2	English	Fall/Spring
2090221	Writing of Literary Research Paper	32	2	English	Fall/Spring
2090323	Writing About Translation for Academic Purposes	32	2	English	Fall/Spring
2090224	Appreciation of Classical Works in English and American Literature	32	2	English	Fall/Spring
2090327	Comparative Literature	32	2	English	Fall/Spring
20002680028	Current Topics in General Linguistics	32	2	English	Fall/Spring
20002680026	Pragmatics and Discourse Analysis	32	2	English	Fall/Spring
20002680030	Language Experiment Design and Paper Publication	32	2	English	Fall/Spring
2090018	Semantics	32	2	English	Fall/Spring
2090289	Phonetics and Phonology	32	2	English	Fall/Spring

20002680025	Ageing and Gerontolinguistics	32	2	English	Fall/Spring
20002680029	Second Language Acquisition	32	2	English	Fall/Spring
20002680047	Natural Language Processing	32	2	English	Fall/Spring
20002680062	Speech Corpus Construction and Intelligent Applications	32	2	English	Fall/Spring
2090017	Psycholinguistics	32	2	English	Fall/Spring
2090153	Computational Semantics	32	2	English	Fall/Spring
2090157	Applied Linguistics	32	2	English	Fall/Spring
2090230	Functional Linguistics	32	2	English	Fall/Spring

School of Life Science and Technology

Siping Campus

Course Code	Course Name	Hours per Week	Level	Semester
170010	Biochemistry	4	Master/Bachelor	Fall
170015	Cell Biology	3	Master/Bachelor	Fall
170347	Neurobiology	2	Bachelor	Fall
170227	Developmental Biology	2	Bachelor	Fall
170017	Molecular Biology	3	Master/Bachelor	Spring
170050	Cell Biology Experiment	2	Bachelor	Spring
50002880001	Introduction to Bioinformatics	2	Master/Bachelor	Spring
170224	Evolutionary Biology	2	Bachelor	Spring

School of Mathematical Sciences

Course Code	Course Name	Level	Language
2102002	Numerical Analysis	Master	English
210206001	An Introduction to the Classification of Amenable C*-algebra	Bachelor	Bilingual
210222301	Partial Differential Equations	Bachelor	Bilingual
2000590002601	Introduction to Smooth Manifolds	Bachelor	Bilingual
210217601	D-Modules, Perverse Sheaves, and Representation Theory	Bachelor	Bilingual
1000590000201	Algebraic Geometry	Bachelor	Bilingual
210223301	A Course in Probability Theory	Bachelor	Bilingual
210207601	Control in Finite and Infinite Dimension	Bachelor	Bilingual

*Bilingual courses: the teaching language on class is in Chinese and the teaching materials are in English. Examinations can be conducted in English.

School of Medicine

Siping Campus

Course Name	Weekly Hours	Language	Semester
China Overview	2	English	Spring
Professional Chinese	2	English	Fall/Spring
Fundamentals of Medical Mathematic	3	English	Fall
Medical Physics	2	English	Fall
Medical Physics (experiment)	1	English	Fall
Medical Chemistry	3	English	Spring
Medical Chemistry (experiment)	2	English	Spring
Document Retrieval	2	English	Spring
Introduction to Medicine	2	English	Fall
Introduction to Medicine II	2	English	Spring
Medical Ethics	2	English	Fall
Introduction to Psychology and Behavioral Sciences	3	English	Spring
Cell Biology	2	English	Fall
Biochemistry	5	English	Fall
Medical Genetics Experiment	1	English	Spring
Medical Genetics	2	English	Spring
Human Anatomy I	5	English	Spring
Human Anatomy II	5	English	Fall
History and Embryology	4	English	Fall
Physiology	4	English	Fall
Experiment of Physiology	2	English	Fall
Pathogen Biology	4	English	Spring
Immunology	2	English	Spring
Pathology	6	English	Spring
Pathophysiology	2	English	Spring
Experiment of Pathophysiology	1	English	Spring
Pharmacology	3	English	Fall
Experiment of Pharmacology	2	English	Fall
Clinical Diagnostics	5	English	Fall
Laboratory Medicine	3	English	Fall
Diagnostics Radiology (including 17 learning hours of B ultrasound)	4	English	Fall
Preventive Medicine	2	English	Fall
Epidemiology	1	English	Spring
Statistics	1	English	Spring
Internal Medicine 1	5	English	Spring
Internal Medicine 2	5	English	Fall
Surgery 1	4	English	Spring

Surgery 2	8	English	Fall
Obstetrics and Gynecology	5	English	Fall
Pediatrics	4	English	Spring
Psychiatry	6	English	Spring
Nuclear Medicine	2	English	Spring
Ophthalmology	2	English	Spring
Otorhinolaryngology	2	English	Spring
Dermatology and Venereology	2	English	Fall
Neurology	2	English	Fall
Emergency Medicine	2	English	Fall
General Medicine	2	English	Fall
Infectious Diseases	2	English	Spring
Evidence-based Medicine	2	English	Spring
General Introduction to the TCM Theory	2	English	Spring
Acupuncture and Moxibustion of TCM	2	English	Spring

College of Design and Innovation

Siping Campus

Courses at Bachelor Level: There's no theoretical course at bachelor level, but advanced bachelor students can also take the courses at master level.

Courses at Master Level:

Course Code	Course Name	Credit	Language	Semester
2270082	Business Modeling	2	English	Spring
2270088	Design Studio 2: Co-design Project-Design Factory Global Challenge 2025	3	English	Spring
2270088	Design Studio 2: Co-design Project- Jiading Natural Farm – A New Place Close to Nature	3	English	Spring
2270117	Algorithmic Design	2	English	Spring
2270119	Principles of AI Product Design	2	English	Spring
20005980002	User Research	2	English	Spring
20005980004	Design Research Studio 2: Qualitative Research on Design Strategy and Management	3	English	Spring
2270014	Sustainable Design	2	English	Spring
2270033	Experience Design	2	English	Spring
2270100	Information Design and Visualization	2	English	Spring
2310007	Communication Design in Branding and Identity Systems	2	English	Spring
2310012	Product-Service System Innovation	2	English	Spring
20002920020	Designing Affective AI Agents for Human Flourishing	2	English	Fall

20005980009	Service Design Methods and Tools	2	English	Fall
20005980010	Smart Experience Design for Product-Service Systems	2	English	Fall
20002920017	Design and the Creation of Values	2	English	Fall
20002920012	Design Thinking Seminar	3	English	Fall
20002920014	Storytelling & Visualizing	3	English	Fall
2270056	Open Design	2	English	Fall
20005980003	Design Research Studio 1: Literature Review on Design Strategy and Management	3	English	Fall
2270092	Studio 1: Specialized Design Project - Media and Communication Design Studio	3	English	Fall
2270084	Studio 1: Specialized Design Project- Product Service System Design Studio	3	English	Fall
2270101	Studio 1: Specialized Design Project- Environmental Design Studio	3	English	Fall
20002920009	Thinking in Action Studio	4	English	Fall

School of Computer Science and Technology

Courses at Bachelor Level:

Course Code	Course Name	Credit	Semester	Language
CST239702	Principles of Database and Applications	4	Spring	English
CST239801	Computer Network	3	Spring	English
CST349001	Software Test	3	Spring	English
CST348701	System Analysis and Design	2	Spring	English
CST349102	Software Engineering Management and Economics	3	Spring	English
CST352101	Software Engineering	3	Spring	English
CST240401	Algorithm Analysis and Design	3	Spring	English
CST240201	Artificial Intelligence: Principles and Technologies	2	Spring	English
CST239801	Computer Network	3	Fall	English
CST348701	System Analysis and Design	2	Fall	English
CST348801	Software Design Patterns	2	Fall	English
CST349501	Microservice Architecture	2	Fall	English
CST239001	Programming Paradigms	4	Fall	English
CST349201	Java Enterprise Application Development	3	Fall	English
CST352002	Software Engineering	3	Fall	Bilingual
CST357601	Principles of Compilers	2	Fall	Bilingual
CST359101	Mobile Application Development	2	Fall	Bilingual
CST357901	Data storage and management	2	Fall	Bilingual
CST450501	Brain and Cognitive Computing	2	Fall	Bilingual
CST351201	Computer Graphics	2	Fall	Bilingual

CST351601	Pattern Recognition	2	Fall	Bilingual
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Courses at Master Level:

Course Code	Course Name	Credit	Semester	Language
CST6030	Principles of Artificial Intelligence	3	Spring	English
CST6044	Data mining	2	Spring	English
CST6017	Advanced Internet of Things technology and Applications	2	Spring	English
CST6008	Software Testing Analyst	3	Spring	English
CST6012	Software Modeling and Analysis	3	Spring	English
CST600301	Formal methods of software engineering	2	Fall	English
CST600902	Pattern Recognition	2	Fall	English
CST601801	Network models, dynamics and algorithms	2	Fall	English
CST601601	Graph Signal Processing	2	Fall	English

* Bilingual courses: the teaching language on class is in Chinese and the teaching materials are in English. Examinations can be conducted in English.

Sino-German College of Applied Sciences

Building Electricity and Intelligence (GT)

Course Code	Course Name	Credit	Language
50000640018	Building Energy Management & Energy Conservation Technology	4	English
50000640015	Building Intelligent Simulation Technology	4	English
50000640009	Building Carbon Neutralization Technology	3	English
510368	Chinese Economy and Historical Culture	6	German English
50000640017	District Energy and Low Carbon Planning	6	English
510380	Specialized Comprehensive Experiment, Innovation and Practice	9	English

Mechatronics Engineering (MT)

Course Code	Course Name	Credit	Language
510368	Chinese Economy and Historical Culture	6	German English
510181	Control Design and Practice of Manufacturing System	3	English
510035	Finite Element Method	5	English
510378	Mechatronics Innovation Project and Practice	10	English
510238	Green Manufacturing	3	English
50000640007	Intelligent Manufacturing Principle and Practice	3	English

Automotive Engineering & After-Sales Service (FT)

Course Code	Course Name	Credit	Language
510305	Automotive Service Products	3	English
510181	Control Design and Practice of Manufacturing System	3	English
510238	Green Manufacturing	3	English
510323	Intelligent Service for Automotive	5	German
510228	Introduction to Robotics	3	English
510172	Lean Management	6	English
510271	Matlab Application in Mechanical Design	4	English
510368	Chinese Economy and Historical Culture	6	English
510383	Project Development and Management with Practice	5	English

Logistics Management (Sino-German College) (WI)

Course Code	Course Name	Credit	Language
510368	Chinese Economy and Historical Culture	6	German English
510172	Lean Management	6	English
510282	Supply Chain and Logistics Management	6	English
510031	E-Business	6	English
510223	Empirical Analysis of Business Administration	6	English
510222	Empirical Analysis of Strategy Management	6	English
510238	Green Manufacturing	3	English
510254	Corporate Culture	3	German

Institute of Vocational Education (CDIBB)

Courses at Master Level:

Course Name	Credit	Hours per Week	Language	Semester
Green Manufacturing and its Influence on Vocational Education	2	2	English	Fall
Beruf und Berufsbildung in China und Deutschland	2	2	German	Fall
Comparison of Chinese and German vocational Education/ Vergleich der Berufsbildung in Deutschland und China	2	2	English/ German	Fall
Introduction on Educational Research Methods	2	2	English	Fall

* Courses will be offered in case that min. 10 students are registered. There's no course offered in Spring term.

College of Environmental Science and Engineering

Siping Campus

Only for Master Students:

Course Code	Course Name	Credit	Semester
2050136	Environmental System and Sustainable Development	2	Spring
2050199	Ecological Economics	2	Spring
2050186	Integrated Solid Waste Management and Reuse	2	Spring
2050189	Water Supply: Principles and Technology	2	Spring
2050149	Atmospheric Science and Climate Change	2	Spring
2050191	Aquatic Environmental Chemistry	2	Spring
20002020007	Environmental Molecular Microbiology	2	Spring
2900225	Sustainable Development and the Future	2	Spring
2050143	Environmental Science	2	Autumn
2050147	Environmental Management and Policy	2	Autumn
2050188	Wastewater Treatment: Principles and Technology	2	Autumn
2050141	Environmental Ethics	2	Autumn
2050211	Literature Search and Scientific Writing	2	Autumn
2050224	Water resource management	2	Autumn
2050200	Ecosystem Management	2	Autumn
2050210	Common Experiment Principles and Step-by-Step Data Processing	2	Autumn
20002020009	Environment System Analysis	2	Autumn

College of Arts and Media

Course Code	Course Name	Credit	Level	Semester
2200097	Service Design	2	Master	Fall
22000127	Interaction Design	2	Master	Spring/Fall
600278	Animation Techniques Frontier	2	Bachelor	Spring
180695	VFX	2	Bachelor	Fall
600276	User Interface Design	2	Bachelor	Spring
600103	Motion Graphic Design	2	Bachelor	Spring
600262	Empirical Research Methods in Communication	1.5	Bachelor	Fall
180328	Public Relations	2	Bachelor	Spring
2200107	Public Relations Communication and Crisis Management	2	Master	Spring
600153	Convergent Journalism	4	Bachelor	Fall
440026	Film Genres	2	Bachelor	Spring
20002850024	Digital Health Communication Theory and Practice	2	Master	Spring
	Algorithms & Society	1.5	Bachelor	Spring/Fall

	AI Literacy		Master	Fall
48125-48130	Piano Performance	2/12	Bachelor	Spring/Fall
20002850023	Digital Health Communication Research	2	Master	Fall
600293	Political Communication	2	Bachelor	Fall
20002850031	Global Communication	2	Master	Spring/Fall

International School

For Exchange Students who register at International School:

Course Name	Weekly Hours	Language	Campus	Semester
Elementary Chinese	12	Chinese	Siping	Fall/Spring
Listening Comprehension	4	Chinese	Siping	Fall/Spring
Oral Chinese	4	Chinese	Siping	Fall/Spring
Chinese Character	2	Chinese	Siping	Fall/Spring

For Exchange Students who register at other Schools/Colleges:

Course Name	Weekly Hours	Language	Campus	Semester
Elementary Chinese	4	Chinese	Siping& Jiading	Fall/Spring