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Sino-German School for Graduate 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: <http://cdhk.tongji.edu.cn/studium/dt-studenten/studienangebot/>

School of Economics and Management (SEM)

Siping Campus

Courses at bachelor level: http://sem.tongji.edu.cn/semen/?page_id=6663

Courses at master level: http://sem.tongji.edu.cn/semen/?page_id=6677

College of Architecture and Urban Planning (CAUP)

Siping Campus

List of courses: <http://en-caup.tongji.edu.cn/index.php/admission/article/61.html>

College of Civil Engineering

Siping Campus

List of courses: http://civileng.tongji.edu.cn/en/content.aspx?info_lb=293&flag=226

School of Mechanical Engineering (SME)

Jiading Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	language
fall	040165	Engineering Thermodynamics (English)	4	4	English
fall	040170	Metallurgy (English)	4	4	English
fall	040172	Engineering Materials (English)	4	4	English

fall	040175	Fundamental of Mechanical Design (English)	4	4	English
fall	040176	Technology of Mechanical Control (English)	4	4	English
fall	040183	Basic Mechanics(English)	4	4	English
fall	041060	Theory of Machines and Mechanisms	3	3	German
spring	040002	Air Conditioning Engineering	3	3	English
spring	040166	Engineering Economics (English)	4	4	English
spring	040171	Applied Mechanics (English)	4	4	English
spring	040173	The Foundation of Manufacturing Technology (English)	4	4	English
spring	040174	Mechanical Measurement(English)	4	4	English
spring	040177	Heat Transfer(English)	4	4	English
spring	040178	Fundamentals of Factory Design(English)	4	4	English
spring	040180	Computer-Aided Design (English)	3	3	English
spring	040449	Engineering Thermodynamics	3	3	English

Courses at master level:

Course Code	Course Title	Language	Credits	Hours	Evaluation	Semester
2030244	Factory Physics	English	2	36	Test	Fall
2030132	Automation, Production System and Computer Integrated Manufacturing	Bilingual	3	54	Test	Spring
2030095	Advanced Management Information System	Bilingual	2	36	Test	Fall
2030112	Decision Support System	Bilingual	2	36	Test	Fall
2030035	Advanced Human-factor Engineering	English	2	36	Test	Spring
2030056	Numerical Hydraulics	Bilingual	3	54	Test	Fall
2030015	Mechanical Structure Analysis	Bilingual	2	36	Test	Spring
2030055	Numerical Heat Transfer	Bilingual	3	51	Test	Fall
2030221	Mechanical System Dynamics	English	2	36	Test	Fall
2030246	Simulation and Analysis of Refrigeration System	English	2	36	Assignment	Spring
2030074	Building Energy-saving Technology	English	2	36	Test	Spring
2030098	Work Research	English	2	36	Test	Fall
2030245	Production Plan and Control	English	2	36	Test	Fall

College of Electronics and Information Engineering (CEIE)

Jiading Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	credit	Language
fall	100070	Semiconductor Physics	3	3	English
fall	100181	Analog Electronic Technique(English)	4	4	English
fall	100183	Electromagnetic Fields and Electromagnetic Waves(English)	4	4	English
fall	100184	Circuit Theory(English)	4	4	English
fall	100185	Advanced Programming Technology (English)	4	4	English
fall	100188	Signal and System(English)	4	4	English
fall	100197	Analog Electronic Technique	4	4	English
fall	100234	Introduction to Human Computer Interaction	2	2	English
fall	100336	Microwave Engineering and Antenna Design	2	2	English
fall	102209	Communication System Principle (B)	3	3	English
fall	102262	Principal and Application of Microcontroller	4	4	English
spring	100071	Principles of Semiconductor Device	2	2	English
spring	100182	Digital Electronic Technology (English)	4	4	English
spring	100186	Computer Systems(English)	4	4	English
spring	100189	Communication System Principle(English)	4	4	English
spring	100191	Electronic System(English)	4	4	English
spring	100192	Electronic Equipment(English)	4	4	English
spring	100193	Electronic Measurement(English)	4	4	English
spring	100194	Software Engineering(English)	4	4	English
spring	100476	Digital Electronic Technology	3	3	English
spring	102045	Electromagnetic Fields and Electromagnetic Waves	3	3	English
spring	102204	Circuit Theory	4	4	English
spring	102231	Chip Design for System-on-Chip	3	3	English

Courses at master level: none

School of Software Engineering

Jiading Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	Credit	Language
fall	420001	C Programming	3	3	English
fall	420032	System Analysis and Design	3	3	English
fall	420095	English Communication	4	4	English
fall	420225	Workplace Business English	2	2	English
fall	420334	Windows Programming	3	3	English
spring	420028	Software Project Management	3	3	English
spring	420111	Software Testing and Quality Assurance	3	3	English
spring	420232	.NET Framework and Programming	3	3	English
spring	420244	Principles of Database and Applications	4	4	English
spring	420260	Real-time System	3	3	English
spring	420262	Mobile Application Development	3	3	English
spring	420302	SOA and Web Services	3	3	English
spring	420311	Object-Oriented Programming	4	4	English
spring	420321	iOS Application Development	3	3	English

Courses at master level:

Software Modeling and Analysis (Postgraduate/Spring)

Advanced Digital Image Processing (Postgraduate/Spring)

Software Testing Analyst (Postgraduate/Fall)

Large-Scale Database Analysis and Design (Postgraduate/Fall)

Distributed Computing (Postgraduate/Fall)

School of Automotive Studies (SAS)

Jiading Campus

Course Code	Course Title	Credits	Hours	Semester	level
2180138	Automobile Product Management and Marketing	3	54	fall	master
2180140	Automotive Em fuel cell system modeling, simulation and control basics	2	36	fall	master
2180142	Model Analysis and Experiment	3	54	fall	master
2180143	Basic Theory of Auto Body and Aerodynamics	2	36	fall	master
2180144	Engineering Signal Analysis and Process	2	36	fall	master
2180147	Vehicle Noise and Vibration	2	36	fall	master
2180141	Electronic controlled fuel injection and combustion	3	54	spring	master

2180140	Automotive Em fuel cell system modeling, simulation and control basics	2	36	spring	master
1180077	Vehicle System Dynamics and Control (Module)	3	54	spring	PhD
190015	Automotive Configuration	5	85	spring	bachelor

College of Transportation Engineering

Jiading Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	Credit	Language
spring	150084	Traffic Engineering	2	2	English
spring	150246	Theory of Transportation System	3	3	English

Courses at master level:

Semester	Course number	Course title	Semester hours	Credit	Language
fall	1120212	Railway Engineering	36	2	English
spring	1120213	Rail Transit Information and Automatic Control	36	2	English
fall	1120214	Highway and Airport Engineering	36	2	English
fall	2120251	Land use and transport demand analysis	36	2	English
fall	2120296	Advances in Transportation Engineering	36	2	English
fall	2120297	Traffic System Engineering	36	2	English
fall	2120298	Highway Engineering	36	2	English
fall	2120299	Railway Engineering	36	2	English
spring	2120300	Transportation Safety	36	2	English
spring	2120301	Transportation Data Collection and Analysis	36	2	English
fall	2120302	Transportation Economics III	36	2	English
spring	2120303	Traffic Design	36	2	English
spring	2120304	Airport Engineering	36	2	English
spring	2120305	Traffic Management & Control II	36	2	English

Research Institute of Railway and Mass Transit

Jiading Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	Credit	Language
fall	430005	Design of Mechatronics System	2	2	English

Courses at master level:

Semester	Course number	Course title	Semester hours	Credit	Language
fall/spring	2140003	Modern Railway Engineering	54	3	English
fall	2140058	Random vibration and spectrum analysis	54	3	English
fall/spring	2140090	specialized foreign language	36	2	English
fall/spring	2140093	Advanced railway technology lecture	18	1	English
fall	2140111	Fault Prognostics and Health Management for Engineering System	36	2	English
fall/spring	2140115	Information Engineering of Railway	54	3	English
fall/spring	2140116	Railway Vehicle Engineering	54	3	English
fall/spring	2140117	Technology of urban railway transit	54	3	English
fall/spring	2140118	High-speed railway technology	54	3	English
fall/spring	2140119	Technology of heavy haul railway	54	3	English

College of Arts and Media

Jiading Campus

Semester	Course title	Weekly hours	Credit	Language
fall/spring	3D Art for Real-time Rendering			English
fall/spring	Virtual Reality: Visualization and Demonstration			English
fall/spring	Immersive Media Creation			English
fall/spring	Fundamental Game Development			English
fall/spring	Information Architecture Design			English
fall/spring	Interactive Design			English
fall/spring	Principles of Visual Communication design			English
fall/spring	Summary of Development of Digital Media Art Study			English
fall/spring	Design for All			English
fall/spring	British Cinema Study			English
fall/spring	Chinese Cinema Study			English
fall/spring	Screenwriting for an International Audience			English
fall/spring	Documentary Filmmaking			English
fall/spring	Global Media Communication			English
fall/spring	Study of Communication Classical Theories			English
fall/spring	Media Art and Culture			English
fall/spring	Network Communication Theory and Practice			English

fall/spring	Introduction to Musicology			English
fall/spring	Digital Audio Art			English
fall/spring	Introduction to Traditional Chinese Music			English

School of Materials Science and Engineering

Jiading Campus

Semester	Course code	Course title	Level	Language	Credit
fall	08020901	Inorganic Materials Chemistry Synthesis Principle	bachelor	English	2
fall	08021101	Polymer Assistant	bachelor	English	2
fall	08014101	Introduction to Information Materials	bachelor	bilingual	2
fall	08001401	Composite Material Science	bachelor	bilingual	3
fall	08009101	Nanocomposite	bachelor	bilingual	2
fall	2060215	Material Chemistry	master	English	3
spring	08013501	Special Building Materials	bachelor	bilingual	2
spring	08014901	Functional Polymeric Materials	bachelor	English	2
spring	08019801	Status and Trends of Novel Materials	bachelor	English	2
spring	2060084	Amorphous and Nanocrystalline Metallic 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	Senor and Transducer	master	English	2

College of Environmental Science and Engineering

Siping Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	Credit	Language
spring	050134	Environmental Monitoring	2	2	English
spring	050287	Microbiology of Environmental Engineering	3	3	English
spring	050320	Sustainable Development in China	2	2	English

Courses at master level: none

Law School

Siping Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	Language
spring	520019	Competition Law	2	2	English

Courses at master level:

Course name	Semester	Credit	Semester hours
Seminar on Chinese Legal System	Fall	2	36
Seminar on Chinese Criminal Law	Fall	3	54
Seminar on Chinese Economic Law	Spring	3	54
Seminar on Chinese Company Law	Fall	2	36
Seminar on Chinese IP Law-Patent and Trademark Law	Spring	2	36
Seminar on Chinese Civil Law	Fall	2	36
Seminar on Chinese Contract Law*	Fall	2	36
Seminar on Chinese Arbitration Law*	Fall	2	36
Seminar on Financial and Taxation Law in China*	Spring	2	36
Seminar on Chinese Competition Law*	Fall	2	36
Seminar on Practice of Intellectual Property in China*	Fall	2	36
Seminar on Chinese Conflicts Law*	Spring	2	36
Seminar on International Technology Transfer and License Agreement*	Spring	2	36
Seminar on Chinese Copyright Law*	Spring	2	36
Seminar on Chinese Foreign Trade Law*	Spring	2	36
Seminar on International and Chinese Business Arbitration law and Practice*	Spring	2	36

Remarks: Courses with "*" are optional courses. If less than 2 students register for an optional course, this course will be canceled.

School of Political Science and International Relations

Siping Campus

Name of Course	Credits	Semester Hours	Semester
PRC Foreign Affairs	2(B.A.)	36	?
International Political Economy Studies	2(M.A.)	36	?
Chinese Politics and Society Studies	2(M.A.)	36	?
Studies on Theory of International Politics	2(M.A.)	36	?
American Politics and Foreign Relations Studies	2(M.A.)	36	?
International Relation and International Organization Studies	2(M.A.)	36	?
Security and Cooperation in Asia Pacific Region	2(M.A.)	36	?
US Politics	2(B.A.)	36	?

School of Ocean and Earth Science

Siping Campus

Course code	Course title	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

College of Surveying and Geo-Informatics

Siping Campus

Courses at bachelor level:

Semester	Course number	Course title	Weekly hours	Credit	Language
spring	57000101/ 57000102	Geography Information System	3	3	bilingual
spring	57000201	Principle and Application of Satellite Navigation and Positioning	3	3	English

Courses at master level:

Semester	Course number	Course title	Semester hours	Credit	Language
fall	2290002	Speciality English	36	2	English

School of Mathematical Sciences

Siping Campus

Complex Variables Functions und integral transform	fall	bachelor
Advanced Mathematics	fall	bachelor
ordinary differential equation	spring	bachelor
Probability Theory and Mathematical statistics	fall	bachelor

School of Physics Science and Engineering

Siping Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	Language
fall	124155	Medical Physics(English)	2	2	English
fall	124156	Experiment of Medical Physics(English)	1	0.5	English
spring	124010	Electromagnetism	3	3	English
spring	580009	General Physics (A)(2)	4	4	English

Courses at master level: none

School of Chemical Science and Engineering

Siping Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	Language
fall	123028	Organic Chemistry (1)	3	3	English

fall	123199	Physical Chemistry(2)	3	3	English
fall	123239	Analytical Chemistry(Including Instrumental Analysis) 1	3	3	English
fall	123275	Inorganic Chemistry(1)	3	3	English
spring	123268	Medical Chemistry(English)	3	3	English
spring	123269	Experiment of Medical Chemistry(English)	2	1	English
spring	123279	Organic Chemistry (2)	3	3	English

Courses at master level:

Semester	Course code	Course title	semester hours	Credit	Language
fall	2104117	Modern organic synthesis	36	2	English
fall	2104142	Special analysis of organic structures	36	2	English
fall	2104155	Principles and Experiments of Modern Instrumental Analysis	54	3	English
fall	2104159	Chemical Engineering Thermodynamics	54	3	English
spring	2104050	Organic stereochemistry	36	2	English
spring	2104147	Quantum chemical calculation	36	2	English
spring	2104152	Analytical Chemistry Frontiers	36	2	English
spring	2104165	Biological mass spectrometry	36	2	English
spring	2104022	Biological Inorganic Chemistry	36	2	English

College of Aerospace Engineering and Mechanics

Siping/Zhangwu Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	Language
spring	450063	Aerial Material	3	3	English
spring	450175	Engineering Mechanics (1)	5	5	English

Courses at master level:

Semester	Course code	Course title	Semester hours	Credit	Language
spring	2101097	Computational Fluid Dynamics	54	3	bilingual
fall	2101103	Aircraft Performance and Design	54	3	bilingual
fall	2101105	Syllabus for Aerodynamics	36	2	English
spring	2101110	Nanocomposites	54	3	bilingual
spring	2101113	Compressible Flow	54	3	English

fall	2101121	Life determination methods and enhancement processes of aircraft components	54	3	English
fall	2101126	Functional and Intelligent Materials	36	2	English

School of Foreign Languages

Siping Campus

Courses at bachelor level:

Semester	Course code	Course title	Weekly hours	Credit	Language
fall	110272	Intercultural Communication	2	2	English
spring	110273	English Literary Classics in Movies	2	2	English
spring	110317	English Debating	2	2	English

Courses at master level:

Semester	Course code	Course title	Semester hours	Credit	Language
fall/spring	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

School of Humanities

Siping Campus

Courses at bachelor level: none

Courses at master level:

Semester	Course code	Course title	Semester hours	Credit	Language
fall/spring	1210078	Continental Philosophy	36	2	English
fall/spring	1210082	Continental modern Philosophy	36	2	English
fall/spring	2210241	Continental Philosophy	36	2	English

School of Life Sciences and Technology

Siping Campus

There is only one course taught in English: Developmental Biology

School of Medicine

Siping Campus

Semester	Course title	Weekly hours	Language
spring	China overview	2	English
fall/spring	Professional Chinese	2	English
fall	Fundamentals of medical mathematic	3	English
fall	Medical Physics	2	English
fall	Medical Physics (experiment)	1	English
spring	Medical Chemistry	3	English
spring	Medical Chemistry (experiment)	2	English
spring	Document retrieval	2	English
fall	Introduction to Medicine	2	English
spring	Introduction to Medicine II	2	English
fall	Medical Ethics	2	English
spring	Introduction to Psychology and Behavioral Sciences	3	English
fall	Cell Biology	2	English
fall	Biochemistry	5	English
spring	Medical Genetics Experiment	1	English
spring	Medical Genetics	2	English
spring	Human Anatomy I	5	English
fall	Human Anatomy II	5	English
fall	History and Embryology	4	English
fall	Physiology	4	English
fall	Experiment of Physiology	2	English
spring	Pathogen Biology	4	English
spring	Immunology	2	English
spring	Pathology	6	English
spring	Pathophysiology	2	English
spring	Experiment of Pathology and Pathophysiology	1	English
fall	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	Hygienics	2	English
spring	Epidemiology and Statistics	2	English
spring	Internal Medicine 1	5	English
fall	Internal Medicine 2	5	English
spring	Surgery 1	4	English
fall	Surgery 2	8	English
fall	Obstetrics and Gynecology	5	English
spring	Pediatrics	4	English
spring	Psychiatry	6	English
spring	Nuclear Medicine	2	English
spring	Ophthalmology	2	English
spring	Otorhinolaryngology	2	English
fall	Dermatology and Venereology	2	English
fall	Neurology	2	English
fall	Emergency Medicine	2	English
fall	General Medicine	2	English
spring	Infectious Diseases	2	English
spring	Forensic medicine	2	English
spring	Evidence-based Medicine	2	English
spring	Clinical Pharmacology	2	English
spring	Rehabilitation Medicine	1	English
spring	General Introduction to the TCM Theory	2	English
spring	Acupuncture and Moxibustion of TCM	2	English

International School

Siping Campus / Jiading Campus

Semester	Course title	Weekly hours	Language
fall/spring	Elementary Chinese Language Courses I	6	English
fall/spring	Elementary Chinese Language Courses II	6	English
fall/spring	Chinese History and Culture	2	English
fall/spring	China's Socio-Economic Development	2	English
spring	The Shape and Growth of the Towns & Villages in China	2	English
fall/spring	Sustainable Development in China	2	English
fall/spring	Intercultural Communication	2	English

fall/spring	Chinas Wirtschaft und Politik	2	German
fall/spring	China's Foreign Affairs and International Relations	2	English
fall/spring	Chinese Intellectual Property Protection	2	English
fall/spring	Chinas Gesellschaft und Kultur	2	German
fall/spring	Chinese Music and Songs (suspended for SS 2017)	2	English