

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Science	PG	5423	Quantum Mechanics (I)	3	3
College of Science	PG	5424	Electrodynamics (I)	3	3
College of Science	PG	5425	Classical Mechanics	3	3
College of Science	PG	5426	Seminar	1	2
College of Science	PG	5427	Quantum Field Theory (I)	3	3
College of Science	PG	5428	Statistical Mechanics (II)	3	3
College of Science	PG	5430	Topics of the Strongly Correlated Electron Systems	3	3
College of Science	PG	5431	Seminar in High Energy Physics	1	1
College of Science	PG	5432	Topics in Lattice Gauge Theory	3	3
College of Science	PG	5433	Solid State Physics (I)	3	3
College of Science	PG	5436	Particle Physics(I)	3	3
College of Science	UG	0512	Physics(I)	4	4
College of Science	UG	0514	Physics (I)	4	4
College of Science	UG	0516	Physics (I)	4	4
College of Science	UG	0522	Physics(I)	4	4
College of Science	UG	0561	Physics (II)	4	4
College of Science	PG	5410	Seminar	0	3
College of Science	PG	5419	Statistical Methods in Finance	3	3
College of Science	UG	0312	Calculus (I)	4	4
College of Science	UG	0412	Calculus (I)	4	4
College of Science	PG	5366	Colloquium	1	2
College of Science	PG	5368	Graphene and Topological Insulators	3	3
College of Science	UG	1421	Circuit Theory (I)	3	3
College of Science	UG	1432	Thermal Physics	3	3
College of Science	UG	1437	Experimental Physics(II)	2	4
College of Science	PG	5393	Seminar	1	2
College of Science	PG	5394	Seminar	1	2
College of Science	PG	5395	Seminar	1	2
College of Science	PG	5396	Seminar	1	2
College of Science	PG	5397	Seminar	1	2
College of Science	PG	5402	Advanced Organic Chemistry(I)	3	3
College of Science	PG	5405	Special Topics on Organic Chemistry (I)	3	3

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College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Science	PG	5407	Chromatography	3	3
College of Science	UG	1468	Chemistry (I)	3	3
College of Science	UG	1480	Applied Mathematics	3	3
College of Science	UG	1495	Seminar C (I)	1	2
College of Science	UG	1496	Seminar A (I)	1	2
College of Science	UG	1497	Seminar B (I)	1	2
College of Science	PG	5437	Quantum Chemistry	3	3
College of Science	PG	5439	Seminar	1	2
College of Science	PG	5441	Advances in Crystal Science and Engineering	3	3
College of Science	PG	5380	Topics in Discrete Maths.(I)	0	2
College of Photonics	PG	5135	Geometrical Optics	3	3
College of Photonics	PG	5138	Fuel Chemistry and Technology	3	3
College of Photonics	PG	5155	Introduction to Photonics Technologies	3	3
College of Photonics	PG	5157	Academic Presentation in English	2	2
College of Photonics	PG	5163	Seminar-Ph.D.	1	3
College of Photonics	PG	5142	Low-dimensional nanostructures for Optoelectronics	3	3
College of Photonics	PG	5147	Biophotonics Technology	3	3
College of Photonics	PG	5150	Nanophotonics & Metamaterials	3	3
College of Photonics	PG	5152	Optical Microscopy	3	3
College of Management	PG	5499	Semiconductor Manufacturing Management	3	3
College of Management	PG	5503	Statistical Inference	3	3
College of Management	PG	5505	Network reliability	3	3
College of Management	PG	5509	The Theory and Application of Scheduling	3	3
College of Management	PG	5510	Linear Programming	3	3
College of Management	PG	5512	Stochastic Processes	3	3
College of Management	UG	1546	Production and Operation Management	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Management	PG	5642	Data Science and Decision Support	3	3
College of Management	PG	5644	Introduction to Business Management: Accounting	2	2
College of Management	PG	5645	Introduction to Business Management: Economics	2	2
College of Management	PG	5646	Introduction to Business Management: Statistics	2	2
College of Management	PG	5647	Marketing Management	3	3
College of Management	PG	5648	Information Management	3	3
College of Management	PG	5649	Globalization Seminar	1	1
College of Management	PG	5650	MBA Thesis	2	2
College of Management	PG	5651	Entrepreneurship and Global Business Competition	3	3
College of Management	PG	5653	Industry Competition Analysis and Strategy	3	3
College of Management	PG	5530	Creativity and Innovation Management	3	3
College of Management	PG	5538	Literature Analysis on Technology Management	3	3
College of Management	PG	5539	Patent and Innovation Strategy	3	3
College of Management	PG	5540	Technology Innovation Management-Theory and Practice	3	3
College of Management	PG	5541	Emerging Technology Innovation and Intellectual Property Management	3	3
College of Management	PG	4038	Research Methods	3	3
College of Management	PG	5551	Financial Management	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Management	PG	5552	Marketing Management	3	3
College of Management	PG	5554	Human Resource Management	3	3
College of Management	PG	5561	Modern Marketing Perspectives	3	3
College of Management	PG	5566	Network Strategies: Method and Applications	3	3
College of Management	PG	5934	Customer-Driven Entrepreneurship Strategy	3	3
College of Management	PG	5517	Doctoral Seminar (I)	1	2
College of Management	PG	5518	Doctoral Seminar(II)	1	2
College of Management	PG	5519	Digital Content and Machine Learning	3	3
College of Management	PG	5520	Data Communications and Networking	3	3
College of Management	PG	5523	Advanced Management Information Systems	3	3
College of Management	PG	4043	Seminar in finance for doctoral students A	1	2
College of Management	PG	4044	Seminar in finance for doctoral students B	0	2
College of Management	PG	5575	Financial Time Series Analysis	3	3
College of Management	PG	5579	Intermediate Accounting	3	3
College of Management	PG	5487	Heuristics	3	3
College of Management	PG	5488	Intelligent Transportation Systems	3	3
College of Management	PG	5493	Research Seminar	1	2
College of Management	PG	5498	Transportation Econometrics	3	3
College of Management	PG	5469	Integrated Marketing Communications	3	3
College of Management	PG	5470	Retailing	3	3
College of Management	PG	5473	Operation Management	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Management	PG	5474	Intermediate Accounting (II)	3	3
School of Law	PG	5171	International Commercial Arbitration: Case Studies	3	3
School of Law	PG	5173	U.S. Pharmaceutical Law	2	2
School of Law	PG	5195	International Economic Law	3	3
School of Law	PG	5212	Seminar on Transitional Justice and International Human Rights Law	2	2
College of Hakka Studies	PG	5900	Social Media and Communication Research	3	3
College of Hakka Studies	UG	1757	Interaction Design	3	3
College of Hakka Studies	UG	1766	Media Management and Entrepreneurship	3	3
College of Hakka Studies	UG	1767	Information and Communication Technology: Selection and Use	3	3
College of Electrical and Computer Engineering	PG	5113	Introduction to Ultrasound and its Applications	3	3
College of Electrical and Computer Engineering	PG	5115	Biomedical Micro Analysis Systems	3	3
College of Electrical and Computer Engineering	PG	5117	Modern Bioelectricity	3	3
College of Electrical and Computer Engineering	PG	5087	Electronic Circuits for Display	3	3
College of Electrical and Computer Engineering	PG	5100	The Optical Properties of Materials	3	3
College of Electrical and Computer Engineering	PG	5101	Geometrical Optics	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Electrical and Computer Engineering	PG	5165	Intelligent Computational Algorithms	3	3
College of Electrical and Computer Engineering	UG	1120	Signals and Systems	3	3
College of Electrical and Computer Engineering	UG	1121	The Optical Properties of Materials	3	3
College of Electrical and Computer Engineering	PG	4001	Seminar	0	2
College of Electrical and Computer Engineering	PG	4002	Independent Study	1	3
College of Electrical and Computer Engineering	UG	1010	Probability and Statistics	3	3
College of Electrical and Computer Engineering	UG	1011	Electronics (I)	3	3
College of Electrical and Computer Engineering	UG	1019	Data Structures	3	3
College of Electrical and Computer Engineering	UG	1024	Principles of Communication Systems	3	3
College of Electrical and Computer Engineering	UG	1777	Differential Equations	4	4
College of Electrical and Computer Engineering	PG	5008	Microwave Circuits	3	3
College of Electrical and Computer Engineering	PG	5012	Computer Architecture	3	3
College of Electrical and Computer Engineering	PG	5016	Semiconductor Physics and Devices (I)	3	3
College of Electrical and Computer Engineering	PG	5023	Nanometer Scale Electronic Devices	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Electrical and Computer Engineering	PG	5024	Intelligent Fog Computing Systems and Designs	3	3
College of Electrical and Computer Engineering	PG	5029	Solar Cell: Physics and Technology	3	3
College of Electrical and Computer Engineering	PG	5031	Image Processing	3	3
College of Electrical and Computer Engineering	PG	5062	Stochastic Processes	3	3
College of Electrical and Computer Engineering	PG	5065	Adaptive Signal Processing	3	3
College of Electrical and Computer Engineering	PG	5071	Semiconductor Device Physics	3	3
College of Electrical and Computer Engineering	PG	5080	Model-based Communication IC Design	3	3
College of Electrical and Computer Engineering	PG	5081	Deep Learning	3	3
College of Electrical and Computer Engineering	PG	5042	Mobile Robots	3	3
College of Electrical and Computer Engineering	PG	5084	Theory and Modeling of Semiconductor Nanostructures	3	3
College of Electrical and Computer Engineering	UG	1043	Logic Design	3	3
College of Electrical and Computer Engineering	UG	1044	Introduction to Computers and Programming	3	3
College of Electrical and Computer Engineering	UG	1065	Signals and Systems	3	3
College of Electrical and Computer Engineering	UG	1086	Introduction to Communication Systems	3	4

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Electrical and Computer Engineering	UG	1098	Biomedical Engineering Laboratory	3	3
College of Electrical and Computer Engineering	UG	1143	Circuit Theory	3	4
College of Electrical and Computer Engineering	UG	1147	Electromagnetics (II)	3	3
College of Electrical and Computer Engineering	PG	5001	Seminar	0	3
College of Electrical and Computer Engineering	UG	1002	Electronics Lab. (I)	2	4
College of Electrical and Computer Engineering	UG	1775	Differential Equations	3	3
College of Electrical and Computer Engineering	UG	1778	Differential Equation	3	3
College of Engineering	PG	5290	Time Frequency Analysis and its Application to Sediment Monitoring	3	3
College of Engineering	PG	5292	Signal Process and Spectral Analysis	3	3
College of Engineering	PG	5295	Mechanics of Fiber-Reinforced Polymer Composite Materials	3	3
College of Engineering	PG	5297	Elasticity	3	3
College of Engineering	PG	5299	Design of Prestressed Concrete Structures	3	3
College of Engineering	PG	5302	Advanced Mechanics of Materials	3	3
College of Engineering	UG	1359	Mechanics of Materials	3	3
College of Engineering	UG	1361	Hydrology	3	3
College of Engineering	PG	5315	Vacuum Technology and Applications	3	3
College of Engineering	PG	5317	Applied Electrochemistry	3	3
College of Engineering	PG	5322	Thermodynamics of Solid	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Engineering	PG	5324	Surface Analysis Techniques	3	3
College of Engineering	PG	5325	Mechanical Behaviours of Materials	3	3
College of Engineering	PG	5326	Semiconductor Processings	3	3
College of Engineering	PG	5328	Introduction to Nanostructured Materials	3	3
College of Engineering	PG	5329	Polymer Chemistry	3	3
College of Engineering	PG	5330	Characterization and Analysis of Polymer	3	3
College of Engineering	UG	1383	Introduction to Materials Science and Engineering (I)	3	3
College of Engineering	PG	5269	Introduction to Micro/Nanotechnology	3	3
College of Engineering	PG	5271	Experimental Methods in Fluid Mechanics	3	3
College of Engineering	PG	5272	Microfluidic System and Applications	3	3
College of Engineering	PG	5275	Bioinspired soft robotics	3	3
College of Engineering	UG	1310	Engineering Mathematics (I)	3	3
College of Engineering	PG	5331	Environmental Chemistry	3	4
College of Engineering	PG	5334	Environmental Biotechnology	3	3
College of Engineering	PG	5336	Environmental Contaminant Transport Phenomena	3	3
College of Engineering	PG	5339	Surface Analysis	3	3
College of Engineering	PG	5458	Theory and Practice of Gaseous Pollution Control Devices	3	3
International College of Semiconductor Technology	PG	5910	Academic Dissertation Research	0	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
International College of Semiconductor Technology	PG	5911	Seminar	0	3
International College of Semiconductor Technology	PG	5912	Semiconductor Physics and Devices (I)	3	3
International College of Semiconductor Technology	PG	5913	Digital Integrated Circuits	3	3
International College of Semiconductor Technology	PG	5914	VLSI Digital Signal Processing	3	3
International College of Semiconductor Technology	PG	5915	Reliability and Failure Physics of Semiconductor Devices	3	3
International College of Semiconductor Technology	PG	5916	Heterostructures and Spintronic Devices	3	3
International College of Semiconductor Technology	PG	5917	Semiconductor Material and Device Characterization	3	3
International College of Semiconductor Technology	PG	5918	Semiconductor Devices and Medical Systems	3	3
International College of Semiconductor Technology	PG	5919	Terahertz Systems	3	3
College of Computer Science	PG	5249	Image Processing	3	3
College of Computer Science	PG	5253	Digital Signal Processing	3	3
College of Computer Science	PG	5254	3D Game Programming	3	3
College of Computer Science	PG	5255	Interactive shape manipulation	3	3
College of Computer Science	PG	5256	Entrepreneurship Realization	3	3
College of Computer Science	UG	1227	Competitive Programming(II)	3	3
College of Computer Science	UG	1228	Competitive Programming(III)	3	3
College of Computer Science	UG	1238	Introduction to Machine Learning	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Computer Science	UG	1240	Introduction to Internet of Things	3	3
College of Computer Science	PG	4049	Special Topics Seminar A (PhD)	0	2
College of Computer Science	PG	5217	Operating System	3	3
College of Computer Science	PG	5219	Computer Architecture	3	3
College of Computer Science	PG	5223	Formal Languages and Theory of Computation	3	3
College of Computer Science	PG	5224	Seminars	0	2
College of Computer Science	PG	5230	Interaction design and virtual reality	3	3
College of Computer Science	PG	5236	Machine Learning	3	3
College of Computer Science	PG	5263	Algorithms	3	3
College of Computer Science	UG	1247	Introduction to Computers and Programming	3	5
College of Computer Science	UG	1248	Probability	3	3
College of Computer Science	UG	1249	Intro. to Computer Networks	3	3
College of Computer Science	UG	1250	Introduction to Algorithms	3	3
College of Computer Science	UG	1251	Linear Algebra	3	3
College of Computer Science	UG	1252	Basic Programming	0	3
College of Computer Science	UG	1254	Computer Science and Engineering Projects (I)	2	2
College of Computer Science	UG	1255	Introduction to Operating Systems	3	3
College of Computer Science	UG	1257	Microprocessor System Lab.	3	5
College of Computer Science	UG	1262	Computer Science and Engineering Projects (II)	2	2
College of Computer Science	PG	5241	Queuing Theory	3	3

2019 Fall Course timetable (for reference only)

College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Computer Science	PG	5244	Wireless Communication Systems	3	3
College of Computer Science	PG	5245	Protocol and Systems Design for Wireless Mobile Networks	3	3
College of Computer Science	PG	5246	5G M2M Platform and Communication Technologies	3	3
College of Computer Science	PG	5261	Data Mining	3	3
College of Computer Science	PG	5262	Numerical Software Development	3	3
College of Biological Science and Technology	PG	5690	Fundamental Electrocardiology	3	3
College of Biological Science and Technology	PG	5696	Advanced Electrocardiology	3	3
College of Biological Science and Technology	PG	5697	Fundamental Medical Science	3	3
College of Biological Science and Technology	PG	5700	Advanced Immunology	2	2
College of Biological Science and Technology	PG	5706	Application and Perspective of Induced Pluripotent Stem Cells	3	3
College of Biological Science and Technology	PG	5654	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5655	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5656	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5657	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5658	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5659	Thesis in the Biological Science and Technology	1	1

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College of Biological Science and Technology	PG	5660	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5661	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5662	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5663	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5664	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5666	Bio-organic Chemistry	3	3
College of Biological Science and Technology	PG	5683	Immunopharmacogenomics	3	3
College of Biological Science and Technology	PG	5684	Antibody and protein engineering	3	3
College of Biological Science and Technology	PG	5685	Basic Pharmacology	2	2
College of Biological Science and Technology	PG	5686	Metabolomics Approach in Medicine	3	3
College of Biological Science and Technology	UG	1614	Biochemistry (I)	3	3
College of Biological Science and Technology	PG	4006	Special Topics Seminar B(PhD)	1	1
College of Biological Science and Technology	PG	5708	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5709	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5710	Thesis in the Biological Science and Technology	1	1
College of Biological Science and Technology	PG	5711	Special Topic Seminar in Bioinformatics(MS)	1	1
College of Biological Science and Technology	PG	5716	Neural Engineering	3	3

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College of Biological Science and Technology	PG	5719	Biological Databases: Theories and Practice	3	3
College of Humanities and Social Sciences	UG	1653	English Composition (1)	2	2
College of Humanities and Social Sciences	UG	1658	Communicative Skills Workshop (1)	3	3
College of Humanities and Social Sciences	UG	1659	Communicative Skills Workshop (1)	3	3
College of Humanities and Social Sciences	UG	1660	Communicative Skills Workshop (1)	3	3
College of Humanities and Social Sciences	UG	1661	Introduction to Linguistics (I)	2	2
College of Humanities and Social Sciences	UG	1665	Communicative Skills Workshop(3)	2	2
College of Humanities and Social Sciences	UG	1666	Communicative Skills Workshop(3)	2	2
College of Humanities and Social Sciences	UG	1667	Communicative Skills Workshop(3)	2	2
College of Humanities and Social Sciences	UG	1669	English Literature (1)	3	3
College of Humanities and Social Sciences	UG	1671	Advanced Writing (1)	3	3
College of Humanities and Social Sciences	UG	1672	Advanced Writing (1)	3	3
College of Humanities and Social Sciences	UG	1688	Phonetics and Phonology Seminar	3	3
College of Humanities and Social Sciences	PG	5781	Formal Syntax	3	3
College of Humanities and Social Sciences	PG	5783	Science Fiction Film and Culture	3	3
College of Humanities and Social Sciences	PG	5786	Language Contact and Sound Change	3	3
College of Humanities and Social Sciences	PG	5887	Introduction to Inter-Asia Cultural Studies	3	3
College of Humanities and Social Sciences	PG	5873	Nation-State Formation as Cultural Construction	3	3
College of Humanities and Social Sciences	PG	5880	"How do Films make us Think?"	1	1
College of Humanities and Social Sciences	PG	5881	The Epochal Issue of Migrations, The Cosmopolitics of State Closure	1	1

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College	Level	Course Code	Course Name	Credit	Class Hour/Week
College of Humanities and Social Sciences	PG	5842	Seminar in Architecture(I)	1	1
College of Humanities and Social Sciences	PG	5843	Seminar in Architecture(III)	1	1
College of Humanities and Social Sciences	PG	5882	TESOL:Theory and Method	3	3
College of Humanities and Social Sciences	PG	5883	Research Method	3	3
College of Humanities and Social Sciences	PG	5884	Pragmatics	3	3
College of Humanities and Social Sciences	PG	5885	English for Specific Purposes:Pedagogy and Research	3	3
College of Humanities and Social Sciences	PG	5886	Digital Games and Language Learning	3	3
College of Humanities and Social Sciences	PG	5801	Source Readings in 18th-Century European Music Aesthetics	2	2
College of Humanities and Social Sciences	PG	5802	Proseminar in Late 19th-Century European Music	3	3
College of Humanities and Social Sciences	PG	5856	Applied Multivariate Analysis	3	3
College of Humanities and Social Sciences	PG	5859	Experimental Design	3	3
College of Humanities and Social Sciences	PG	5747	On-line Newspaper	3	3
College of Humanities and Social Sciences	PG	5756	Seminar on Communication English: Web News and Talk Shows	3	3
College of Humanities and Social Sciences	PG	5757	Mass Media and the Information Society	3	3
College of Humanities and Social Sciences	UG	7115	Freshman English (I)	2	2
College of Humanities and Social Sciences	UG	7141	Advanced English Listening and Discussion	2	2
College of Humanities and Social Sciences	UG	7142	Advanced English Listening and Discussion	2	2
College of Humanities and Social Sciences	UG	7162	Technical English	2	2

2019 Fall Course timetable (for reference only)

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College of Humanities and Social Sciences	UG	7163	Technical English	2	2
College of Humanities and Social Sciences	UG	7169	English for Job Seekers	2	2
College of Humanities and Social Sciences	UG	7191	Public speaking & Negotiation	2	2
College of Humanities and Social Sciences	PG	5774	Multimedia Interactive Theater	3	3
College of Humanities and Social Sciences	PG	5778	Introduction to Technical Human Computer Interaction	3	3
Others	UG	9912	Subject-related Teaching Materials & Methods(English)	2	2
Others	UG	6116	Introduction to Philosophy	2	2
Others	UG	6120	Introduction to Philosophy	2	2
Others	UG	6141	Life and Biomedicine	2	2
Others	UG	6150	Exploring History of Science. Part 2: From pre-modern to modern science	2	2
Others	UG	6159	Exploring History of Science. Part I: Science in Ancient Worlds	2	2
Others	UG	6170	Introduction to Psychology	2	2
Others	UG	6177	Life and Biomedicine	2	2