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BMEB211	Introduction to Nanobiomedicine
BMEB212	Machine Learning and Neuroengineering
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BMEB311	Quantitative Physiology I
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BMEB317	Principles of Medical Imaging Systems
BMEB318	Biomechanics
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BMEB325	Medical Imaging Systems Laboratory
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CH401	Computational Chemistry
CH403	Principle of Chemical Engineering
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CH480	Projects of Science and Technology Innovation
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CLE023	SUSTech English III
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CS103	Introduction to Artificial Intelligence
CS104	Introduction to Mathematical Logic
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CS202	Computer Organization
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EBA203	Management Information System
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EE202-17	Digital Circuits
EE202-17L	Digital Circuits Laboratory
EE203	Solid-state Electronics
EE204	Introduction to Semiconductor Devices
EE205	Signals and Systems
EE206	Communication Principles
EE208	Engineering Electromagnetics
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EE306	Introduction to MEMS
EE307	Antennas and Radio Propagation
EE308	Fiber Communication Principles and Techniques
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EE311	Optical Design
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EE402	Frontier Seminars in Modern Electronic Science and Technology IV
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EE417	Communications System Design II
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EE427	Principles of Remote Sensing
EE429	Image and Video Processing
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EE433	Modern Electric Vehicle Technologies
EE470	Industrial Practice

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EES102	DIY Project: Assembling an iPhone6
EES201	Brief Introduction of "Creative Electronic Design II"
EES202	Design based on LabVIEW Programming
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EES301	Statistical Machine Learning
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ESE305	Environmental Science and Engineering Laboratory I
ESE307	Hydrology: Principles and Applications
ESE308	Environmental Economics
ESE309	Environmental Microbiological Experiments
ESE310	Environmental Science and Engineering Laboratory II
ESE313	Introduction to Ecology
ESE314	Environmental Materials Science
ESE315	Meteorology and Climatology
ESE316	Water Resources Assessment and Management
ESE317	Application of GIS & RS
ESE318	Groundwater Hydrology
ESE319	Global Climate Change
ESE321	Scientific Presentation
ESE323	Introduction to Water Resources and Hydropower Engineering
ESE326	Hydrological Forecast
ESE329	Principles of Remote Sensing
ESE330	Applied Bioinformatics in Environmental Science
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ESE332	Soil Science
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ESE405	Environmental Impact Assessment
ESE406	Environmental Transport Process
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ESS204	Fundamentals of Astronomy
ESS205	Computational Methods
ESS206	Fundamentals of Signal Processing and Data Analysis
ESS208	Introduction to Natural Disaster Science
ESS209	Principles of Geophysics
ESS210	Fundamentals of Space Science and Technology
ESS211	Fundamentals of Planetary Science
ESS212	Python Programming
ESS301	Applied Geophysics I (Seismic Exploration)
ESS302	Applied Geophysics II (Gravity & EM Exploration and Well Logging)
ESS303	Fundamentals of Space Geodetics
ESS308	Fundamentals of Geophysics I (Seismology)
ESS309	Fundamentals of Geophysics II (Geomagnetism, Geoelectricity, Geothermics and Gravity)
ESS310	Geophysical Experiments
ESS312	Fundamentals of Continuum Mechanics
ESS314	Fundamentals of Plasma Physics
ESS317	Fundamentals of Inverse Theory in Geophysics
ESS5031	Physics of Earth and Planetary Interiors
ESS322	Introduction to Catastrophe Risk Modelling
ESS404	Isotopic Tracing and Application
ESS405	Signal Analysis and Data Processing
ESS406	Geochemistry
ESS408	Space Science Instrumentation

ESS411	Computational Space Physics
ESS412	Big Data and Artificial Intelligence in Geosciences
ESS414	Fundamentals of Geodynamics
ESS419	Professional Writing and Presentation in Earth Sciences
ESS421	Gravity and Solid Earth Tide
ESS422	Fundamentals of Rock Physics
ESS470	Geology Field Trips
ESS471	Geophysical Field Trips
ESS490	Thesis (Graduation Project)

F

FET102	Principles of FinTech
FET202	Cases in FinTech I
FET203	FinTech Mathematics
FET204	Commercial Bank
FET206	Data Structure and Financial Applications
FET219	Life Contingencies Practicum
FET301	Cases in FinTech II
FET303	Financial Risk Management
FET306	Business Analytics with Big Data
FET470	Practice of Financial Theory
FET490	Thesis
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FETS203	Blockchain technology: Development and applications
FETS301	Internship
FIN101	Financial Marketing
FIN102	Finance
FIN201	Microeconomics
FIN202	Special Topics in Finance and Entrepreneurship II
FIN203	Financial Accounting
FIN204	Macroeconomics
FIN205	Special Topics in Finance and Entrepreneurship I
FIN206	Corporate Finance
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FIN5022	Financial Statement Analysis
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FIN301	Financial Investments
FIN302	Empirical Methods in Finance
FIN303	Econometrics

FIN304	Financial Time Series
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FIN306	Fixed Income: Models and Applications
FIN307	Database Management Systems and Financial Applications
FIN308	Financial Economics
FIN310	China Economics and Finance
FIN311	Artificial Intelligence and Its Applications in Finance
FIN312	Actuarial Modelling with Applications in Insurance
FIN314	Frontier and Practice of Securities Market
FIN403	Cases in Financial Innovations
FIN407	Investment Banking
FIN409	Financial Modeling and Analysis
FIN411	International Finance
FIN413	Quantitative Investment Analysis
FIN417	Corporate Finance Case Analysis
FIN480	Projects of Science and Technology Innovation
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FMA302	Financial Economics
FMA303	Security Investments
FMA304	Asset Pricing and Risk Management
FMA307	Models and Pricing of Financial Derivatives

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GE332	Physical Education VI
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M

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MA101B	Calculus I A
MA101C	Calculus I B
MA102a	Mathematical Analysis II
MA102B	Calculus II A
MA102C	Calculus II B
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MA109	Advanced Linear Algebra

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MA204	Mathematical Statistics	
MA205	Discrete Mathematics	
MA206	Mathematical Modeling	
MA207	Mathematical Experiments	
MA208	Applied Stochastic Processes	
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MA216	Computational Finance	
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MA309	Time Series Analysis	
MA313	Stochastic Analysis	
MA314	Sample Surveys	
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MA321	Representations of Groups	
MA322	Life Insurance Actuarial Science	
MA323	Topology	
MA325	Numerical Solution of Partial Differential Equations	
MA327	Differential Geometry	
MA328-13	Fluid Mechanics	
MA329	Statistical Linear Models	

MA333	Introduction to Big Data Science
MA336	Partial Differential Equations(H)
MA337	Real Analysis (H)
MA401	Dynamical Systems
MA405	Survival Analysis
MA407	Topics on Financial Mathematics
MA409	Statistical Data Analysis with SAS
MA423	Seminar in Geometry and Topology
MAT7100	Statistical Deep Learning
MA441	Seminar on Advanced Probability
MA443	Advanced Topics in Modern Applied Mathematics
MA446	Seminar on Groups, Graphs and Maps
MA447	Senior Analysis Seminar
MA470	Internship
MA480	Research Projects
MA490	Undergraduate Thesis/Project
MAE101	Experimental DIY: Discover the beauty of mechanics
MAE102	Flight Simulating Experiment
MAE202	Mechanics of Materials
MAE203	Theoretical Mechanics I
MAE203B	Engineering Mechanics I – Statics and Dynamics
MAE204	Theoretical Mechanics II
MAE205	Introduction to Aeronautics and Mechanics
MAE206	Introduction to Aircraft Engines
MAE207	Engineering Fluid Mechanics
MAE208	Lectures On Selected Engineering Software
MAE209	Foundations of Engineering Mathematics
MAE211	Overseas Practice
MAE302-16	Fluid Mechanics Lab
MAE303	Fluid Mechanics
MAE304	Elasticity
MAE305	Engineering Thermodynamics
MAE307	Aircraft Structural Strength
MAE308	Heat Transfer
MAE309	General Principles of Transport Phenomena
MAE310	Computational Solid Mechanics
MAE311	Principles of Turbomachinery
MAE312	Aircraft Flight Dynamics
MAE313	Aero Engine Structure and Strength
MAE5002	Advanced Numerical Methods
MAE315	Aero-Thermal Fluid Lab
MAE316	Experiments in Aircraft Structural Mechanics
MAE318	Theory of Vibration
MAE5027	Interfacial Phenomena

MAE320	Principles of Flight Vehicles
MAE7001	Multiphase Flow
MAE323	Mordern Numerical Methods
MAE401-16	Solid Mechanics Lab
MAE403	Computational Fluid Dynamics
MAE405	Aerodynamics
MAE407	Jet and Propulsion
MAE5021	Fracture Mechanics
MAE5019	Micronano Mechanics
MAE5017	Aircraft Flight Dynamics
MAE5020	Mechanics of Composite Materials
MAE417	Aircraft Design Group Practice
MAE480	Summer Internship
MAE490	Degree Thesis (or Design)
MAE499	Research and Innovation Projects
MAE5028	Fundamentals of Combustion
MAS221	The Basic Principle of Statistical Learning
MAT7001	Algebra（Graduate）
MAT7002	Measure Theory and Integration (PG)
MAT7003	Functional Analysis (PG)
MAT7029	Stochastic Analysis
MAT7030	Stochastic calculus and their applications in finance
MAT7035	Computational Statistics
MAT7036	Nonparametric Statistics
MAT7104	Bayesian Statistics
MAT7055	Generalized Linear Models
MAT8006	Scientific Computing
MAT8010	Combinatorics
MAT8011	Advanced Probability
ME102	CAD and Engineering Drawing
ME103	Awareness Practice of Manufacturing Engineering
ME111	Prolegomenon to Engineering
ME112	Introduction to Matlab
ME211	Advanced Graphics and Computer Aided Design
ME232	Prolegomenon to Robotics
ME261	Engineering Materials - Science, Processing and Design
ME262	Introduction to Soft Matter
ME300-1	Special topics: Design principles of Microscale Swimming Robots
ME301	Dynamics and Vibration
ME302	Fundamentals of Manufacturing
ME303	Fundamentals of Machine Design
ME304	Fundamentals of Energy Engineering
ME306	Fundamentals of Robotics
ME307	Fundamentals of Control Engineering

ME308	Advanced Manufacturing Practice
ME310	Fundamentals of Measurement Technology
ME312	Advanced Kinematics and Dynamics of Mechanisms
ME313	Product Design Practice
ME314	Finite Element Theory and Its Engineering Applications
ME331	Robot Modeling and Control
ME332	Robot Operating System
ME334	Microrobotics
ME335	Microfabrication and Microsystems
ME336	Collaborative Robot Learning
ME338	Machine Learning for Engineering
ME354	Manufacturing Process Simulation and Data Analysis
ME355	Frontiers in Hybrid Manufacturing Processes
ME361	Fundamentals of Additive Manufacturing of Metals
ME363	Fundamental and Application of Advanced Composite Materials
ME400-1	Scientific Research Method
ME405	Innovative Design Theory and Practice
ME407	Precision Machining Technology
ME411	New Energy Technology
ME424	Modern Control and Estimation
ME426	Fundamentals of Engineering Optimization
ME434	Walking Robot
ME435	Soft Robotics
ME451	Advanced Manufacturing Systems
ME452	Fundamentals and Applications of Plasma
ME462	Additive Manufacturing and Design
ME463	Failure Analysis and Fracture Mechanics of Engineering Materials
MEE5402	New energy technology: hydrogen and fuel cell technology
ME483	New Energy Systems
ME492	Innovation and Entrepreneurship: Practice and Principles
ME493	Senior Project
ME494	Practice I
ME495	Practice II
MED101	Introduction to Biomedical Sciences
MED102	Medical English
MED103	History of Medicine
MED104	Fundamentals in Biomedical Sciences
MED105	Medical Organic Chemistry
MED106	Immunity and Health
MED202	Medical Microbiology
MED203	Medical Biochemistry
MED204	Medical Molecular Biology
MED205	Medical Cell Biology
MED206	Basic Biomedical Laboratory

MED207	Human Anatomy	Ⅰ
MED208	Human Anatomy	Ⅱ
MED209	Neuroanatomy	
MED210	Physiology	
MED211	Pathophysiology	
MED212	Communication Skills & Basic Clinical Skills	
MED214	Early Clinical Exposure	
MED215	Medical Literature Retrieval and Writing	
MED216	Medical Microbiological Laboratory	
MED217	Evidence based medicine methodology and clinical trial	
MED218	Medical Epigenetics	
MED301	Biomedical Ethics	
MED302	Preventive Medicine	
MED303	Introduction to Anatomy	
MED304	Physiology and Pathophysiology I	
MED305	Physiology and Pathophysiology II	
MED306	Histology and Embryology	
MED307	Pathology	
MED308	Biomedical Laboratory	
MED309	Medical Neurobiology	
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MED317	Laboratory Diagnostics	
MED318	General Surgery	
MED319	Psychiatrics	
MED322	Introduction to Anesthesiology	
MED323	Genetic counseling	
MED324	Health Law	
MED326	Introduction to Clinical Medicine	
MED327	Immunology Laboratory	
MED328	Clinical/Basic Medical Research Project	Ⅰ
MED329	Clinical/Basic Medical Research Project	Ⅱ
MED330	Clinical/Basic Medical Research Project	Ⅲ
MED333	Cancer Biology Principles	
MED334	Perioperative Medicine	
MED401	Biomedical Research Methods	
MED402B	Traditional Chinese Medicine B	
MED403	Pharmacology	
MED403A	Pharmacology A	
MED404	Medical Genetics	
MED405	Medical Immunology	

MED406	Surgery Ⅰ
MED407	Internal Medicine Ⅰ
MED408	Gynecology & Obstetrics
MED409	Pediatrics
MED410	Stomatology
MED411	Infectious Diseases
MED419	Medical Parasitology
MED420	Gerontology
MED421	Emergency Medicine
MED423	Nuclear Medicine
MED428	Social Medicine Practicum
MED429	Introduction to General Practice
MED482	Projects of Science and Technology Innovation Ⅱ
MED483	Projects of Science and Technology Innovation Ⅲ
MED490	Thesis
MEE5115	Autonomous Robotic Systems
MEE5210	Microstructure Characterization and Analysis
MEE5405	Solar Thermal Energy Utilization Technologies
MES300	Awareness Practice of Mechanical Engineering
MIS104	Business Model Research
MIS109	Business Analytics Using Python
MIS202	Marketing
MIS204	Prescriptive Decision Analytics
MIS205	Data Management and Databases
MIS206	Business Data Structures and Algorithms
MIS207	Stochastic Models and Business Applications
MIS208	Behavior and Experimental Economics
MIS210	Big Data Statistics and Econometric Methods
MIS212	Business Negotiations
MIS301	Big Data Analysis and Application
MIS303	Big Data Governance and Business Model
MIS306	Data Mining and Business Applications
MIS307	Advanced Management System Analysis and Design
MIS309	Business History and Economic Development Model in China and Overseas
MIS312	Entrepreneurial Thinking and Management
MIS321	Consumer Behavior
MIS322	International Business
MIS323	Marketing Research
MIS405	Advanced E-commerce and Management
MIS406	Judgment and Decision Making
MSE001	Fundamentals of Materials Science and Engineering
MSE002	Experiments for Fundamentals of Materials Science and Engineering
MSE102	Frontier Seminars in Materials Science and Engineering

MSE103	Magic Materials
MSE202	Physical Chemistry
MSE203	Crystallography
MSE204	Physical Chemistry Experiments
MSE205	Foundation of Circuits and Electronics
MSE210	General Organic Chemistry
MSE212	Basic Experiments for Organic Chemistry
MSE213	Mechanics of Materials B
MSE301	Materials Chemistry
MSE304	Comprehensive Experiments of Materials II
MSE306	Material Characterization Techniques
MSE307	Comprehensive Experiments of Materials I
MSE308	Introduction to Energy Materials
MSE310	Introduction to Semiconducting Materials Devices and Technology
MSE311	Thermodynamics of Materials
MSE313	Polymer Materials
MSE315	Physical Metallurgy
MSE317	Ceramic Materials
MSE318	Advanced Materials Research II
MSE320	Introduction to Photovoltaics and Photo-thermal
MSE321	Advanced Materials Research I
MSE322	Composite Materials
MSE325	Functional Polymers
MSE327	Photonic Materials and Metamaterials
MSE328	Physics of Materials
MSE330-16	Powder Metallurgy and 3D Printing of Metallic Materials
MSE332	Fundamentals of Electrochemistry
MSE334	Introduction to Energy Materials
MSE336	Experiments for Energy Material
MSE338	Biomaterials
MSE340	Experiments for Biomaterials
MSE342	Crystal Chemistry
MSE343	Computational Materials Science
MSE344	Applied Quantum Mechanics
MSE345	Experiments for Advanced Materials Science and Engineering I
MSE347	Seminars on Frontiers of Modern Materials Science and Technology
MSE401	Advanced Materials Research III
MSE403	Advanced Materials Characterization Techniques
MSE407	Advanced Thin Film Technology
MSE413	3D Printing and Laser-based Advanced Manufacturing
MSE450	Distinguish Lectures for Innovation and Entrepreneurship in Materials Science and Engineering
MSE460	Orientation Program of Dept. of Materials Science and Engineering
MSE470-17	Industrial Practice

MSE480	Projects of Science and Technology Innovation
MSE490	Thesis (Graduation Project)
MSE5001	"Applied Quantum Mechanics"
MSE5025	Materials Science and Artificial Intelligence
MSES101	Nanomaterials and its fabrication methods
MSES102	Introduction to Soft Matter
MSES103	Introduction to Nanotechnology
MSES104	Materials Characterization
MSES105	Nanoprobes in Material Science, Physics and Chemistry
MSES106	Introduction to Functional Oxides for Information Technology

O

OCE100	Principles of Oceanography
OCE103	Beaches and Coasts
OCE105	Introduction to Coastal Morphology
OCE202	Earth System History
OCE203	Marine Biology
OCE204	The Taste of Ocean
OCE205	Biology of the Marine Environment Lab
OCE206	Frontiers of Ocean Engineering
OCE207	Offshore Hydrodynamics
OCE208	Materials for Ocean Engineering
OCE210	Intelligent Ocean Exploration
OCE213	Ocean Engineering Design I – Environment, Economy and Regulations
OCE301	Introduction to Atmospheric Science
OCE302	Introduction to Marine Ecosystem
OCE303	Physical Geology
OCE304	Introduction to Computational Oceanography
OCE305	Physical Oceanography
OCE306	Marine Geology
OCE307	Chemical Oceanography
OCE308	Microbial Oceanography
OCE309	Paleomagnetism and Environmental Magnetism
OCE312	Experiment of Seawater Analysis
OCE316	Marine Microbiology Laboratory
OCE317	Numerical Simulation of Ocean Circulation
OCE318	Marine Molecular Biology Lab
OCE322	Structural Mechanics I
OCE325	Ocean Engineering Design III: Moorings and Offshore Foundations
OCE326	Ocean Engineering Design IV: Resource Exploitation and Equipment
OCE401	Marine Geophysics
OCE402	Fundamental of Marine Seismology Observations
OCE404	Marine Sedimentology
OCE405	Structural Mechanics

OCE407	Mineralogy and Petrology
OCE408	Mineralogy and Petrology Laboratory
OCE411	Life in Extreme Environments
OCE470	Geology Field Trip
OCE471	Marine Cruises
OCE472	Field Trip of Life in Extreme Environments
OCE480	Projects of Science and Technology Innovation
OCE490	Thesis (Graduation Project)

P

PHY103A	General Physics A (I)
PHY103B	General Physics B (I)
PHY104B	Experiments of Fundamental Physics
PHY105A	General Physics A (II)
PHY105B	General Physics B (II)
PHY201-15	Physics Laboratory II
PHY202	Physics Laboratory III
PHY203-15	Mathematical Methods in Physics
PHY204	Thermodynamics and Statistical Physics I
PHY205-15	Analytical Mechanics
PHY206-15	Introduction to Quantum Mechanics
PHY207-15	Electrodynamics I
PHY208	Electrodynamics II
PHY210	Atomic Physics
PHY221	Open Physics Laboratory II
PHY301	Physics Laboratory IV
PHY303	Statistical Mechanics II
PHY305	Quantum Mechanics II
PHY307	Modern Optics
PHY321-15	Introduction to Solid State Physics
PHY324	Laser Fundamentals
PHY326-15	Semiconductor Physics and Devices
PHY328	Low Temperature Physics
PHY330	Solid Optoelectronics
PHY5025	Surface Physics
PHY336	Introduction to Computational Physics
PHY401	Virtual Experiments on Frontiers of Physics
PHY5010	Physics of Thin Films
PHY425	Modern Techniques in Materials Characterization
PHY5031	Introduction to Microelectronic Fabrication
PHY5013	Advanced Electron Microscopy
PHY5008	Quantum Transport Theories
PHY5028	Condensed Matter Physics Forum
PHY5001	Advanced Quantum Mechanics

PHY5011	Group Theory for Physicists
PHY439	General Relativity: from Black Holes to Cosmology
PHY5012	Quantum Information
PHY5032	Quantum Computation
PHY5030	Introduction to Quantum Field Theory
PHY480	Scientific Innovation Project
PHY485	Internship
PHY490	Thesis (Graduation project)
PHYS001	Open Physics Laboratory I
PHYS002	Lectures on selected Frontiers in Physics
PHYS003	Numerical Algorithms in Physics
PHYS004	Energy Transfer in Photosynthesis and Molecular Crystals
PHYS005	Crystal Structures and Symmetry Groups
PHYS006	Science and Society
PHYS007	Introduction to differential geometry
PHYS008	Frontier of Quantum Information Science
PHYS009	Semiconductor Quantum Technologies

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SDM213	Industrial Design History
SDM214	Fundamentals of Industrial Design
SDM215	Aesthetics and Design Psychology
SDM223	System Design and Management
SDM283	Mechanics for Design
SDM312	Product Design
SDM314	Fundamentals of Control Engineering and Design
SDM352	Computer Simulation and Design
SDM354	Human Factors Engineering
SDM371	Big Data
SDM374	Machine Learning System Design
SDM391	Interactive Design
SDM396	Product Innovation Design
SME102	Fundamentals of Microelectronics and Integrated Circuit
SME201	Fundamentals of Integrated Circuit I-Analog Integrated Circuit
SME202	Fundamentals of Integrated Circuit II-Digital Integrated Circuit
SME203	Fundamentals of Microelectronics I-Semiconductor Material Physics
SME204	Fundamentals of Microelectronics II -Semiconductor Device
SME301	Frontier Seminars in Microelectronics and IC Designs I
SME302	Frontier Seminars in Microelectronics and IC Designs II
SME303	Advanced Microelectronics Experiment I
SME304	Advanced Microelectronics Experiment II
SME305	VLSI Fabrication Technology
SME306	Advanced Digital CMOS IC Design
SME307	CMOS Analog Integrated Circuit Design

SME308	Advanced Semiconductor Fabrication Laboratory
SME309	Microprocessor Design
SME311	The Foundation of IC Layout Design
SME312	Electronic Design Automation (EDA) Basics
SME314	Biosensor Basics and DNA Sequencing Application
SME317	System-on-a-Chip Design
SME319	Fundamentals of Semiconduct for Devices and Packaging
SME327	Introduction to Si-Based Quantum Computing (QC) Devices
SME403	Advanced Microelectronics Experiment III
SME470	Industrial Practice
SME480	Projects of Science and Technology Innovation
SME490	Thesis（Graduation Project）
SMES201	An Introduction of Machine Learning and EDA
SMES203	Fundamentals of Power IC Design
SMES204	Introduction to Nanoelectronics
SMES205	Fundamentals of Semiconductor Materials
SMES206	Selected Small Size Integrated Circuit Devices
SMES207	Microelectronics Technology, Industry and Policy Strategy
STA404	Network Science and Computing
STA470	Internship
STA480	Research Projects
STA490	Undergraduate Thesis/Project