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Seikei Liberal Arts Curriculum

Seikei Specific Course	
Freshman Seminar	Introduction to University Life
Introduction to Seikei	Seikei Seminar
Introduction to Volunteering	Studies on Musashino Area
Introduction to Environmental Studies	Studies on Community Welfare
Musashino Lectures	Human Rights and Gender
Adolescent Crises and Identity Formation	Child and Society
Studies on Welfare for the Aged	Welfare Society and Everyday Life
Communication Access and Volunteering	

Skill Building Course	
Freshers' English	College English (Listening & Speaking) I
College English (Listening & Speaking) II	College English (Reading & Writing) I
College English (Reading & Writing) II	College English (Global Topics) I
College English (Global Topics) II	College English (Local Topics) I
College English (Local Topics) II	TOEFL Preparation Intermediate
TOEFL Preparation Advanced	TOEIC Preparation Intermediate
TOEIC Preparation Advanced	IELTS Preparation Intermediate
IELTS Preparation Advanced	Presentation Skills
Discussion Skills	Writing Skills
English and Culture through Extensive Reading	English and Culture through Movies
English and Culture through TV shows	English and Culture through Songs
Lectures on Japanese Writing	Lectures on Chinese Character
Practical Japanese Writing and Communication	Practical Japanese Speaking
Lectures on Japanese Reading	Introduction to Classical Japanese A
Introduction to Classical Japanese B	Topics in Japanese Writing and Communication
Practical Document Writing and Communication Skills	Career Planning
Business Training Seminar	Career Seminar
Advanced Lecture on Career Planning	International Internship
Current Topics on Japanese Business	Preparatory Seminar for Internship

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Skill Building Course	
Internship for Business and Public Sector	Internship for Engineering
Information Literacy	Practical Use of Information Technology A
Practical Use of Information Technology B	Practical Use of Information Technology C
Practical Use of Information Technology D	Practical Use of Information Technology E
Health and Sports: Basic	Sports and Science
Sports and Culture	Sports and Society
Health and Science	Physical Aspects and Sports
Health and Sports: Advanced AI	Health and Sports: Advanced AII
Health and Sports: Advanced AIII	Health and Sports: Advanced AIV
Health and Sports: Advanced BI	Health and Sports: Advanced BII
Health and Sports: Advanced BIII	Health and Sports: Advanced BIV
Health and Sports: Advanced SI	Health and Sports: Advanced SII
Health and Sports: Advanced SIII	Health and Sports: Advanced SIV

Cultural Study Course	
Introduction to Philosophy	Introduction to Ethics
Introduction to Philosophy	Introduction to Ethics
Introduction to Psychology	Psychology for Self-understanding
Introduction to Literature	Introduction to Political Science
Introduction to Economics	Sociology and the Contemporary World
Introduction to Constitutional Law	Introduction to Civil Law I
Introduction to Civil Law II	Introductory Science
Introductory Environmental Science	Contemporary Societies and Philosophy
Contemporary Societies and Ethics	Contemporary Societies and Religions
History of Japanese Thoughts	Psychology and Brain Science
Mental Health and Clinical Psychology	Introduction to Music
Introduction to Arts	Human Life and Arts
Transcultural Literature	Sub-Culture and Literature
Performance Theory	Introduction to Linguistics
Fashions and Culture	Cultural Studies on the Visual Image

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Cultural Study Course	
The Visual Image and Human-life	Introduction to Cultural Anthropology
Japanese Politics	Introduction to Contemporary International Politics
Japan and the World Economy	Introduction to Business and Management
Mass Media in the Contemporary Society	Communication and Society
Introduction to Social Psychology	Statistics in Social Science
Legal Procedure and Human Life	Bioethics and Law
Introduction to Subatomic World	Introduction to Anthropology
Introduction to Astronomy	Introduction to Pharmaceuticals
Science of the Everyday World	History of Science and Technology
Philosophy of Science	Sustainable Environment
Meteorology and Climatology	Beginners' German A1
Beginners' German AII	Beginners' German AIII
Beginners' German BI	Beginners' German BII
Beginners' German BIII	Beginners' French A1
Beginners' French AII	Beginners' French AIII
Beginners' French BI	Beginners' French BII
Beginners' French BIII	Beginners' Spanish A1
Beginners' Spanish AII	Beginners' Spanish AIII
Beginners' Spanish BI	Beginners' Spanish BII
Beginners' Spanish BIII	Beginners' Chinese A1
Beginners' Chinese AII	Beginners' Chinese AIII
Beginners' Chinese BI	Beginners' Chinese BII
Beginners' Chinese BIII	Beginners' Korean A1
Beginners' Korean AII	Beginners' Korean AIII
Beginners' Korean BI	Beginners' Korean BII
Beginners' Korean BIII	Advanced Seminar on German, Language and culture I
Advanced Seminar on German, Language and culture II	Advanced Seminar on German, Diplom Deutsch Preparation I
Advanced Seminar on German, Diplom Deutsch Preparation II	Advanced Seminar on German, Presentation Skills I
Advanced Seminar on German, Presentation Skills II	Advanced Seminar on French, Language and culture I
Advanced Seminar on French, Language and culture II	Advanced Seminar on French, DAPF Preparation I
Advanced Seminar on French, DAPF Preparation II	Advanced Seminar on French, Presentation Skills I

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Cultural Study Course	
Advanced Seminar on French, Presentation Skills II	Advanced Seminar on Spanish, Language and culture I
Advanced Seminar on Spanish, Language and culture II	Advanced Seminar on Spanish, DELE Preparation I
Advanced Seminar on Spanish, DELE Preparation II	Advanced Seminar on Spanish, Presentation Skills I
Advanced Seminar on Spanish, Presentation Skills II	Advanced Seminar on Chinese, Language and culture I
Advanced Seminar on Chinese, Language and culture II	Advanced Seminar on Chinese, Test of Chinese Proficiency Preparation I
Advanced Seminar on Chinese, Test of Chinese Proficiency Preparation II	Advanced Seminar on Chinese, Presentation Skills I
Advanced Seminar on Chinese, Presentation Skills II	Advanced Seminar on Korean, Language and culture I
Advanced Seminar on Korean, Language and culture II	Advanced Seminar on Korean, S-TOPIK Preparation I
Advanced Seminar on Korean, S-TOPIK Preparation II	Advanced Seminar on Korean, Presentation Skills I
Advanced Seminar on Korean, Presentation Skills II	German Conversation I
German Conversation II	German Conversation III
German Conversation IV	French Conversation I
French Conversation II	French Conversation III
French Conversation IV	Spanish Conversation I
Spanish Conversation II	Spanish Conversation III
Spanish Conversation IV	Chinese Conversation I
Chinese Conversation II	Chinese Conversation III
Chinese Conversation IV	Korean Conversation I
Korean Conversation II	Korean Conversation III
Korean Conversation IV	Introduction to World Cultures
Introduction to the German-speaking World	Introduction to the French-speaking World
Introduction to the Spanish-speaking World	Introduction to the Chinese-speaking World
Introduction to the Korean-speaking World	Introduction to the Russian Language I
Introduction to the Russian Language II	Introduction to the Thai Language I
Introduction to the Thai Language II	Introduction to the Italian Language I
Introduction to the Italian Language II	Modern and Contemporary History of Japan A
Modern and Contemporary History of Japan B	Japan and the World after the Second World War
Geography of Contemporary Japan	Geography of the Contemporary World
SIIS Lecture	Modern and Contemporary History of Asia A

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Cultural Study Course	
Modern and Contemporary History of Asia B	Modern and Contemporary History of the West A
Modern and Contemporary History of the West B	Topics in History
Asian Area Studies	European Area Studies
North American Area Studies	The World of Islam
Topics in Area Studies	Study Abroad A
Study Abroad B	

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Major Courses (Materials and Life Science)	
Basic Calculations for Science and Engineering	Basic Computer Exercise
Calculus I	Linear Algebra I
Calculus II	Linear Algebra II
Basic Physics I	Basic Chemistry I
Basic Biology	Physics and Chemistry Laboratory
Basic Material and Life Science Laboratory	Material and Life Science Laboratory I
Material and Life Science Laboratory II	Material and Life Science Laboratory III
Material and Life Science Laboratory IV	Senior Thesis I
Senior Thesis II	Seminar in Material and Life Science I
Seminar in Material and Life Science II	Basic Physics II
Basic Chemistry II	Quantum Mechanics I
Electromagnetism I	Thermodynamics I
Solid State Properties I	Electric and Electronic Circuit
Inorganic Chemistry I	Organic Chemistry I
Physical Chemistry I	Analytical Chemistry I
Molecular Biology	Bioorganic Chemistry
Chemical Engineering I	Environmental Engineering I
Calculus III	Calculus IV
Introduction to Geology	Solid State Structure
Analytic Mechanics	Energy Engineering
Biophysics	Inorganic Chemistry II
Organic Chemistry II	Introduction to Statistics
Thermodynamics II	Electromagnetism II
Physical Chemistry II	Physical Simulation
Computational Nanophysics	Nano Chemical Measurement I
Biomedical Electronics	Polymer Chemistry
Organic Reaction Mechanism	Analytical Chemistry II
Chemical Kinetics	Molecular Target Therapy
Biochemistry	Chemical Engineering II

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Major Courses (Materials and Life Science)	
Basic Optics	Fourier Analysis
Safety Control	Introduction to Industrial Management
Nanotechnology I	Electrodynamics
Separation and Purification Engineering	Solid State Properties II
Instrumental Analysis for Organic Chemistry	Food Chemistry
Glycotechnology	Biotechnology
Chemistry in Perfume and Cosmetics	Environmental Engineering II
Environmental Catalysis	Chemical Reaction Engineering
Powder and Fluid Engineering	Quantum Mechanics II
Multi-Dimensional Measurement	Nanotechnology II
Inorganic Material Synthesis	Nano Chemical Measurement II
Lipid Biochemistry	Organic Stereochemistry
Genetic Engineering	Resources and Recycling Engineering

Major Courses (Computer and Information Science)	
Computer Fundamentals	Calculus I
Linear Algebra I	Calculus II
Linear Algebra II	Basic Physics I
Physics and Chemistry Laboratory	Basic Programming
Regular Programming	Advanced Programming
Algorithms and Data Structures	Basic Programming Exercises
Regular Programming Exercises	Advanced Programming Exercises
Course Exercises on Information Sciences	Project Laboratory on Information Sciences
Thesis Research Seminar I	Thesis Research Seminar II
Reading Seminar I	Reading Seminar II
Information and Communication	Network Architecture
Computer Systems	Database Systems
Network Security	Programming Languages
Operating Systems	Digital Communication Network
Software Design	Compilers

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Major Courses (Computer and Information Science)	
Network Control	Computer Architecture
Image Processing	Digital Signal Processing
User Interface	Speech Processing
History of Media Technology	Information Retrieval
Pattern Recognition	Computer Graphics
Multi-dimensional Information Processing	Artificial Intelligence and Learning Theory
Interactive System	Data Mining
Mathematical Programming	Probability Theory
Optimization Modeling	Information Theory
Statistical Data Analysis	Automata and Formal Languages
Combinatorics	Applied Statistics
Network Optimization	Machine Learning
Complex System Analysis	Applied Operations Research
Numerical Computations and Algorithms	Introduction to Fundamental Information Processing
Information Society Ethics	Calculus III
Calculus IV	Vector Analysis
Fourier Analysis	Basic Physics II
Basic Chemistry I	Basic Chemistry II
Biology I	Java Programming
Functional Programming	Unix and C Programming
Digital Logic Circuits	Electronic Circuits
Introduction to System Analysis	Numerical Simulation
Scheduling Theory	Information Management
Advanced Digital Circuit Design	Computer Programming I

Major Courses (System Design)	
Introduction to System Design	Calculus I
Linear Algebra I	Calculus II
Linear Algebra II	Calculus III
Basic Physics I	Basic Chemistry I

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Major Courses (System Design)	
Physics and Chemistry Laboratory	System Design Laboratory I
System Design Laboratory II	Project Exercise
Senior Thesis I	Senior Thesis II
Seminar	Computer Programming II
Introduction to Numerical Simulations	Applied Mathematics
Calculus IV	Probability and Statistics I
Electrical Circuits and Systems I	Electrical Circuits and Systems II
Mechanics of Materials I	Dynamics of Machinery I
Fluid Mechanics I	Industrial Engineering
CAD I	Ethics for Engineering
Basic Chemistry II	Biology I
Control Engineering I	Metal Working Practice
Mechanical Design	Metal Machining
Operations Research	Fundamentals of Accounting Information
Quality Management	Industrial Design
Probability and Statistics II	Vehicle Dynamics
Introduction to Industrial Management	Thermal Engineering I
Thermal Engineering II	Fluid Mechanics II
Mechanics of Materials II	Material Design
Engineering Acoustics	Dynamics of Machinery II
Computational Mechanics	CAD II
Semiconductor Physics	Semiconductor Fundamentals
Integrated Circuits Engineering	Electric Power Engineering
Electronic Circuits	Electromagnetics
Electronics and Instrumentation	Electrical Machines and Systems
Power Electronics	Mechatronics
Kinematics & Dynamics of Robot Systems	Image Processing
Mathematical Analysis for Robot Systems	Control Engineering II
Robotics	Mechanism
Motion Control	Digital Signal Processing
Production Engineering	Elasticity and Plasticity

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Major Courses (System Design)	
Experimental Methods	Engineering Economics I
Engineering Economics II	Cognitive Engineering
Systems Engineering	Human Factors I
Human Factors II	

Fundamental Courses	
High-Technology	Data Science
Introduction to Industrial Property Rights	Scientific Basics of Physical Movement
Study Abroad C	Study Abroad D
Study Abroad E	Study Abroad F
Study Abroad G	Study Abroad H
Independent Study I	Independent Study II
Independent Study III	English for the Work Place
Cross Cultural Communication Skills	Academic Listening
Intensive Reading	Discussion & Presentation
Essay Writing	Global Perspectives
Embracing Cultural Diversity	History and the World
International Societies and Representation of "Others"	Regional Studies Seminar
Seminar on Culture	Current Topics
Exploring Media Literacy	Global Peace Studies
Global Values	Science and Technology in the World
World Politics in Comparative Perspective	Seminar on Communication Strategy A
Seminar on Communication Strategy B	World Englishes
Debate	Basic Human Abilities Necessary for Technical Employees
Practical skills in scientific research	English for Science and Technology

Study for Teaching Profession	
Physical Science Laboratory	Chemistry Laboratory
Biology Laboratory	Earth Science Laboratory
Employment Guidance	Information Technology and Profession

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Study for Teaching Profession	
School Administration and School Library	Structure of School Library Media
Teaching and the School Library	Self-cultivation Through Reading
Using Media Information	Studies and Practice in Community Welfare
Seminar on Education	Teaching Methods of Mathematics I
Teaching Methods of Mathematics II	Teaching Methods of Mathematics III
Teaching Methods of Mathematics IV	Teaching Methods of Natural Sciences I
Teaching Methods of Natural Sciences II	Teaching Methods of Natural Sciences III
Teaching Methods of Natural Sciences IV	Teaching Methods of Industrial Arts I
Teaching Methods of Industrial Arts II	Teaching Methods of Informatics I
Teaching Methods of Informatics II	