THE KAISEI ACADEMY

Course Descriptions

Japanese Language

Integrated Japanese Language
This course covers contemporary Japanese language, Kanji, and literature.

Contemporary Japanese Lang. B
(Prerequisite: Integrated Japanese)
This course focuses on modern Japanese literature.

Classics A
(Prerequisite: Integrated Japanese)
This course focuses on classical Japanese literature (from the earliest writings to the medieval period).

Classics B
(Prerequisite: Classics A)
This course focuses on classical Chinese as used in Japan ("Kanbun") from the Heian period to modern times.

Social Studies

World History A
This course covers modern world history from the 17th century to the present times.

World History B
(Prerequisite**:** World History A)
This course surveys world history from pre-history, and the dawn of civilizations, to the present times. Similar topics as covered by the old AP World History course.

Japanese History A
This course covers modern Japanese history from the end of the Tokugawa Era in the 19th century to the present times.

Japanese History B
(Prerequisite: Japanese History A)
This course covers Japanese history from pre-history (Jomon culture) to the present times.

Geography A
This course focus on map reading skills, topography, climate, and the main industries/economical activities of regional sectors in the globe, also emphasizing local cultures (human geography).

Geography B
(Prerequisite: Geography A)
This course focus on both experimental and observational study of nature and environment, industry and resources, cultural patterns, population studies, agriculture, urban space and globalization. Similar topics as covered by the AP Human Geography course.

Civics

Ethics
This compulsory high school course focuses on ancient philosophy, world religions, modern Western political thought, and contemporary ethics.

Politics and Economy
This compulsory high school course focuses on the Japanese political system within the context of world political models. It also surveys essential economic principles with an emphasis on the national economy.

Mathematics

Mathematics I
This course covers Algebra (Algebra 2 in the U.S.), trigonometric ratio, and basic data analysis.

Mathematics II
(Prerequisite: Mathematics I)
This course covers analytic geometry, trigonometric functions, pre-calculus, and logarithmic functions.

Mathematics III
(Prerequisite: Mathematics II)
This course covers complex planes, differential and integral Calculus (as well as their applications and equations), parametric equations and polar coordinates. Similar topics as covered by the AP Calculus course.

Mathematics A
This course covers probabilities, integers, and geometric figures.

Mathematics B
(Prerequisite: Mathematics A)
This course covers arithmetic and geometric sequences, plane and spatial vectors, probability distribution and statistical inference.

Science

Basic Physics
This course covers measurement, kinematics, laws of motion, work and energy, oscillation and wave, electricity and electromagnetism.

Advanced Physics
(Prerequisite: Basic Physics)
This course covers circular motion and gravitation (Kepler's laws), kinetic theory of gases and thermodynamics, harmonic motion, optics, interference and diffraction, electric charge, dielectrics and DC/RLC circuits, mechanical waves and sounds, nuclear and quantum physics. Similar topics as covered by the various AP Physics courses.

Basic Chemistry
This course covers atomic structure, chemical bonds, characteristics of period table elements, stoichiometry, acids and bases, redox reactions.

Advanced Chemistry
(Prerequisite: Basic Chemistry)
This course covers intermolecular forces and properties, thermodynamics and equilibrium, chemical reactions, solutions and solubility, organic and inorganic substances, polymer compounds. Similar topics as covered by the AP Chemistry course.

Basic Biology
This course covers cell structure and energy, genes and their functions, body structure, nervous and respiratory system, immunity and disease, climate and biome, ecosystems.

Advanced Biology
(Prerequisite: Basic Biology)
This course covers cell biology, structure of genes, heredity and anatomy, animals in their environments, ecology, evolution, and biological diversity. Similar topics as covered by the AP Biology course.

Basic Earth Science
This course covers Earth's geological features, plate tectonics, paleontological eras, atmospheric and oceanic structures, solar system and space, and Japan's natural environment.

Advanced Earth Science
(Prerequisite: Earth Science)
This course builds upon the basic course, investigating the Earth's shape and gravity, geomagnetism, seismic waves, igneous rocks, erosion and soil, sedimentary rocks, metamorphism and earthquakes.

Health and P.E.

Physical Education
Students take P.E. class every year, developing skills in activities that help them maintain fitness throughout high school life.

Health
Health education course focusing on lifestyle, infectious diseases, STDs, mental health, first aid, etc.

Fine Arts

Students are required to take at least one Fine Arts course in order to graduate. Level II and Level III courses are optional, and build upon prior knowledge and skills of the previous course.

Music I, II, III
Introduction to music and note-reading. Students select an instrument that they want to achieve proficiency and mastery. Students can also opt for singing or music composition.

Crafts Production I, II, III
Students can opt for pottery or traditional Japanese crafts (origami, paper lanterns, wood blocking, etc.)

Calligraphy I, II, III
Study and practice of Japanese calligraphy and its historical styles.

Art and Design I, II, III
Study and practice of painting, drawing, sculpture and design.

Foreign Languages (English)

English Communication I, II, III
The aim of this set of courses is to help our students acquire the necessary skills and knowledge needed to achieve a better performance in their university English classes.

English Expression I, II
Reading and writing class. Reading materials vary from literature to academic theories about the sciences, to current topics from magazine and newspapers, and online materials

English Conversation
Course aimed at improving and developing students' communication and speaking skills.

Miscellaneous

Basic Home Economics
This course covers skills necessary for life after high school and university such as child-rearing, personal finances, relationships, diet and cooking, etc.).

Information Technology Education
This course covers digital information, network and information systems, computer simulations and algorithms.

Integrated Study Period
This class serves many purposes: study hall, homeroom, student exam and university guidance.