Holistic Curriculum

MATHEMATICS

- Core Courses Mathematics Foundation
- Introduction to Statistics Introduction to Probability
- Precalculus 1

Compulsory Courses

- Precalculus 2-3Calculus 1-2
- Introduction to Linear Algebra
- Elective courses
- Algebra 1-2
- Combinatorics 1-2
- Differential Geometry Geometry 1-2
- Graph Theory Game Theory
- Ordinary Differential Equations
- Inequalities and Functional Equations
- Introduction to Set Theory Logic and Proofs
- Mathematical Modelling
- Numerical Methods Number Theory 1-2

- Probability Theory Quantum Calculus for Everyone Statistics for Science

SCIENCE AND TECHNOLOGY

Core Courses

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- Basic Chemistry Basic Physics Design and Technology Basic Earth Science 1-2
- Basic Astronomy

Compulsory Courses

- Mechanics and Thermodynamics Advanced Mechanics and Thermodynamics
- Waves and Optics
- Advanced Waves and Optics Electricity and Magnetism Advanced Electricity and Magnetism
- EM Waves and Modern Physics Advanced EM Waves and Modern Physics Properties of Matter
- Advanced Properties of Matter
- Kinetics and Equilibrium
- Advanced Kinetics and Equilibrium Organic Chemistry

- Advanced Organic Chemistry Inorganic and Physical Chemistry Advanced Inorganic and Physical Chemistry Chemistry in Daily Life
- Genetics and Evolution
- Advanced Genetics and Evolution Animal Biology Advanced Animal Biology

- Plant Biology Advanced Plant Biology Biodiversity and Ecology
- Advanced Biodiversity and Ecology
- Seminar 1-3 Scientific Projects Scientific Inquiry and Nature of Science

Elective Courses

- Addition Computer Programming Applied Optics

- Astrophysics Basic Theoretical Physics
- Biological Lab Techniques
- Biology For Sustainable Environment Biophysics
- Biotechnology
- Classical Mechanics Computer Design and Manufacturing 1-2 Computer Network
- Computer Programming
- Data Structures Database systems Design and Analysis of Algorithms
- Electromagnetism
- Environmental Biology

- Environmental Biology General Computer Science 1-2 General Physics 1-2 (AP) Intellectual Properties Introduction to Computational Science Introduction to Computer Algorithms Introduction to Data Structures and Algorith
- Introduction to Data Structures and Algorithms Introduction to Material Science

- Mathematics for Physics Object-Oriented Programming 1-2 Philosophy and History of Science Programming in Python

- Science Beyond the Planet Earth 1-2 Special Topics in Biology, Chemistry, and Physics Up and Coming Technologies
- Website Design

CAREER & TECHNOLOGY

4.0 credit min.

12.0 credit min.

2.0 credit min.

10.0 credit min.

3.0 credit min.

6.0 credit min.

- Core Courses
- Design and Technologies
- Basic Engineering
- **Compulsory Courses** Marketing

14.0 credit min.

29.0 credit min.

- Upgrading Thailand Introduction to Accounting
- Business Management

Fundamental English 1-6

Compulsory courses • Academic Reading • Reading for Appreciation • Creative Writing 1-2

Contemporary Literature

Basic Translation Children's Literature Writing

Public Speaking English for Intercultural Communication Critical Writing

Building Critical and Creative Thinkers

Core Courses

Religious Studies and Ethics for Life

ASEAN Studies for Good Understanding Game of Thrones and Social Studies Civic Responsibility 1-5

Health and Physical Education I to VI Basketball

Comparative Performing Arts

Thai Performing Arts Performing Arts Appreciation 1-2

Thai Literature Appreciation Society and Culture in Literature

Seminar on Thai Language

Thai Language for Communication I and II

HEALTH AND PHYSICAL EDUCATION 6.0 credit min.

Psychology in Everyday Life

Thais in World History 1-2

Civic Responsibility 1-4

Effective Speaking
Effective Presentation

Elective Courses

Critical Writing

LANGUAGES

Elective Courses • Korea 1-4

Chinese 1-4

French 1-4

German 1-4

Economics

Geography

Elective Courses

Core Courses

Social Dance

Weight Training Badminton Volleyball

Futsal

FINE ARTS Core Courses

Visual Art Art Appreciation

THAI LANGUAGE

Thai Usage

Core Courses

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Thai History 1-4 World History

Compulsory Courses

Seminar on History

Archaeological Inquiry

SOCIAL SCIENCE

Japanese 1-4 Spanish 1-4

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ENGLISH Core Courses