

GYEONGGI SUWON



GSIS

GSIS

High School Course Handbook

2008-2009

Credit to: Taejon Christian International School

INTERNATIONAL SCHOOL

World Language Department Courses

Korean 2

The course expands social communication skills and cultural awareness, develops basic reading skills, and increases writing ability in preparation for higher language study.

404/

Korean 2/

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

- Describing people and things
- Weekend activities in the past
- Shopping for clothing, jewelry, and accessories
- Ordering and shopping for food
- Expressing comparisons and preferences
- Health and sickness
- Finding apartments
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Content Comparisons / Additional Information

Korean 3

The course refines oral and written skills for use in response to extensive authentic texts and audio-visual resources.

403/

Korean 3/

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

- Introduction/description of self and others
- Education, work and home
- Daily activities, pastimes, and making plans
- Shopping and eating around town
- Home routines and responsibilities
- Travel and sightseeing
- The world and environmental concerns
- Health and emergencies
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Content Comparisons / Additional Information

Korean 4

402/

Korean 4/

Through the study of a broad range of texts and social interaction students will develop a high level of language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Introduction/description of self/others
Education, work, and home
Daily Activities, pastimes, and making plans
Shopping and eating around town
Home Routines and Responsibilities
Travel and Sightseeing
The World and Environmental Concerns
Health and Emergencies

Content Comparisons / Additional Information

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Korean 5

401/

Korean 5/

Students refine oral and written language skills to a more sophisticated proficiency by discussing and analyzing historic and current events and social issues and abstract ideas through the use of authentic written materials.

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Descriptive Writing and Individual Oral
Narrative Writing and Individual Oral
Expository Writing and Individual Oral
Persuasive Writing and Individual Oral
Written and Oral Response to Literature or Media
Advertisement and Public Notice
Writing Letters in Different Situations
Group Discussion About Literature & Media

Content Comparisons / Additional Information

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IB Korean B SL

2407/ 2408

IB LBKor1S/ IB LBKor2S

Through the study of a broad range of texts and social interaction, students will develop a high level of language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)

Narration (reading news, eyewitness accounts)

Written Interaction (personal letters)

Spoken Interaction (movie script, job interview)

Explanation (school improvement proposal)

Argument (debate for/against)

Exploration (TV ads, poetry)

Analysis and Critique (movie review, biography)

Graphics (cartoons, scripting your own cartoon)

Content Comparisons / Additional Information

SL students are able to respond and express their personal opinions in both oral and written form. Students will be able to interact comfortably in social settings. Written compositions for SL are 500 characters in length.

HL students use more advanced levels of texts and vocabulary which require complex thinking skills for interpretation. Essays focus on more abstract topics and are 800 characters in length.

IB Korean B HL

2405/ 2406

IB LBKor1H/ IB LBKor2H

Through the study of a broad range of written materials and social interactions, students will develop a higher level of oral and written language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)

Narration (reading news, eyewitness accounts)

Written Interaction (personal letters)

Spoken Interaction (movie script, job interview)

Explanation (school improvement proposal)

Argument (debate for/against)

Exploration (TV ads, poetry)

Analysis and Critique (movie review, biography)

Graphics (cartoons, scripting your own cartoon)

Persuasive Essay writing & discussion (argument & debate)

Content Comparisons / Additional Information

SL students are able to respond and express their personal opinions in both oral and written form. Students will be able to interact comfortably in social settings. Written compositions for SL are 500 characters in length.

HL students use more advanced levels of texts and vocabulary which require complex thinking skills for interpretation. Essays focus on more abstract topics and are 800 characters in length.

IB A1 Korean SL

2403/ 2404

IB A1Kor1S/ IB A1Kor2S

Students engage in the detailed analysis of literature depicting multiple perspectives which reflect the underlying unity of the human experience; explore content, themes, styles, and genres of international works; and articulate critical interpretations and responses in oral and written forms.

Duration 2 Years **Credits** 2

Primary Assessment

Knowledge and Understanding: Quizzes, papers, projects, and vocabulary activities; Analysis and Interpretation: Discussion and oral presentation; Oral and written assessments are based on the IB rubrics designed for the different units of study.

IB-IA: Individual Oral Presentation (15%), Individual Oral Commentary (15%)
 IB-EA: Written Commentary (25%), Written Essay (25%), World Literature Paper (20%)

Course Content

Introduction to the language of style analysis
Thematic analysis and close reading of three works
Cultural and thematic study of three world literature works
Introduction to the process of oral and written commentary
Genre commentary and close reading of two different works
Commentary and close reading of three works in one genre

Content Comparisons / Additional Information

Standard level studies five fewer works than higher level.

IB A1 Korean HL

2401/ 2402

IB A1Kor1H/ IB A1Kor2H

Students engage in the detailed analysis of literature depicting multiple perspectives which reflect the underlying unity of the human experience; explore content, themes, styles, and genres of international works; and articulate independent critical interpretations and responses in oral and written forms.

Duration 2 Years **Credits** 2

Primary Assessment

Knowledge and Understanding: Quizzes, papers, projects, and vocabulary activities. Analysis and Interpretation: Discussion and oral presentations; Oral and written assessments are based on the IB rubrics designed for the different units of study.

IB-IA: Individual Oral Presentation (15%), Individual Oral Commentary (15%)
 IB-EA: Written Commentary (25%), Written Essay (25%), World Literature Paper (20%)

Course Content

Introduction to the language of style analysis
Thematic analysis and close reading of four works
Cultural and thematic study of three world literature works
Introduction to the process of oral and written commentary
Genre commentary and close reading of four different works
Commentary and close reading of four works in one genre

Content Comparisons / Additional Information

Higher level has five additional works that the students are responsible for studying. Because of the additional works studied, the HL student is given more time and expected to write in more depth on the external exam.

Mandarin 1

This course will emphasize communicative ability and the cultural awareness necessary to interact in basic everyday social situations to empower students for further work, study, or travel using the language.

415/

Mandarin 1/

Duration 1 Year**Credits** 1**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Pinyin Romanization- pronunciation, pinyin notation

Writing Chinese Characters, talking about yourself

Time, numbers, times of day

Directions on the street, in a building

Shopping for clothes, using money, counting, color

Stationary, personal electronics, furniture

Fruits, measure words for objects, like would like

Making appointments

Feeling sick- describing physical condition

Daily activities- describing hobbies etc.

Content Comparisons / Additional Information**Mandarin 2**

The course expands social communication skills and cultural awareness, develops basic reading skills, and increases writing ability in preparation for higher language study.

416/

Mandarin 2/

Duration 1 Year**Credits** 1**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Talking about timetables, introductions, weather conditions

Giving and following directions in buildings and on the street

Talking on the phone in Mandarin

Describing weekend plans

Describing activities, doing more than one thing at once

Describing an illness, asking for permission to have time off

Ordering food in a restaurant

Shopping

Describing famous places in China

Reading Chinese short stories

Content Comparisons / Additional Information

Mandarin 3

417/

Mandarin 3/

The course refines oral and written skills for use in response to extensive authentic texts and audio-visual resources.

Duration 1 Year

Credits 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Discussing one's experiences
Describing physical appearance, personality
Making appointments with others
Bargaining and shopping
Reviewing movies, music, and books
Ordering food in a restaurant
Talking about heroes, idols, role-models
Talking about one's strengths and weaknesses
Describing hypothetical situations
Discussing world-views

Content Comparisons / Additional Information

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IB Mandarin Ab Initio SL

2445/ 2446

IB AbMand1/ IB AbMand2

This course will emphasize communicative ability and the cultural awareness necessary to interact in basic everyday social situations to empower students for further work, study, or travel using the language.

Duration 2 Years

Credits 2

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
 IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Introduction/description of self/others
At school, work, and home
Daily activities, hobbies, and schedules
Shopping and eating around town
Home routines and responsibilities
Travel and sightseeing
The world and environmental concerns
Health and emergencies

Content Comparisons / Additional Information

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IB Mandarin B SL

2441 / 2442

IB LBMand1 / IB LBMand2

Through the study of a broad range of texts and social interaction students will develop a high level of language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)

Narration (reading news, eyewitness accounts)

Written Interaction (personal letters)

Spoken Interaction (movie script, job interview)

Explanation (school improvement proposal)

Argument (debate for/against)

Exploration (TV ads, poetry)

Analysis and Critique (movie review, biography)

Graphics (cartoons, scripting your own cartoon)

Content Comparisons / Additional Information**Spanish 1**

460/

Spanish 1/

This course will emphasize communicative ability and the cultural awareness necessary to interact in basic everyday social situations to empower students for further work, study, or travel using the language.

Duration 1 Year**Credits** 1**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Introduction to the language and basic vocabulary

Community and relationships

Talking about friends and family

Daily school life, activities, and obligations

Schedules, meals, and activities around town

Free time and invitations; talking about the recent past

Sports, weather, preferences, and opinions

The neighborhood; transportation and directions

Shopping and eating out

Routines and duties around the house and celebrations

Content Comparisons / Additional Information

Spanish 2

461/

Spanish 2/

The course expands social communication skills and cultural awareness, develops basic reading skills, and increases writing ability in preparation for higher language study.

Duration 1 Year

Credits 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Daily routine, around the house, and planning a party
Travel and modes of communication and media
Childhood experiences and family relationships
City activities and eating out
Fitness, health, and emergencies
The world, our surroundings, and environmental concerns
Travel plans and accommodations
Navigating a city and shopping

Content Comparisons / Additional Information

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Spanish 3

451/

Spanish 3/

Students will refine their grammatical knowledge and increase their vocabulary through extensive speaking, listening, writing, and reading activities that explore Hispanic cultures and current events.

Duration 1 Year

Credits 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

Present and past activities in the Hispanic world
Descriptions and readings about people and experiences
Environmental cause and effect: opinions and advice
Present celebrations and historical events
Future plans and current preparations
Spain and the New World: relationships and influences

Content Comparisons / Additional Information

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IB Spanish Ab Initio SL

2465/ 2466

IB AbSpan1/ IB AbSpan2

This course will emphasize communicative ability and the cultural awareness necessary to interact in basic everyday social situations to empower students for further work, study, or travel using the language.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Introduction/description of self/others

At school, work, and home

Daily activities, hobbies, and schedules

Shopping and eating around town

Home routines and responsibilities

Travel and sightseeing

The world and environmental concerns

Health and emergencies

Content Comparisons / Additional Information**IB Spanish B SL**

2461/ 2462

IB LBSpa1S/ IB LBSpa2S

Through the study of a broad range of texts and social interaction, students develop a high level of language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)

Narration (reading news, eyewitness accounts)

Written Interaction (personal letters)

Spoken Interaction (movie script, job interview)

Explanation (school improvement proposal)

Argument (debate for/against)

Exploration (TV ads, poetry)

Analysis and Critique (movie review, biography)

Graphics (cartoons, scripting your own cartoon)

Content Comparisons / Additional Information

French 2

408/

French 2/

The course expands social communication skills and cultural awareness, develops basic reading skills, and increases writing ability in preparation for higher language study.

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

- Describing people and things
- Weekend activities in the past
- Shopping for clothing, jewelry, and accessories
- Ordering and shopping for food with quantities
- Expressing comparisons and preferences
- Health and sickness
- Finding apartments
- Traveling in France
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Content Comparisons / Additional Information

French 3

407/

French 3/

The course refines oral and written skills for use in response to extensive authentic texts and audio-visual resources.

Duration 1 Year **Credits** 1

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

Course Content

- Entertainment and leisure activities
- Daily routines
- Expressing past activities using "imparfait"
- Sports and health care
- Vacations and travel
- Talking about future plans and hypothetical situations
- Expressing necessity, obligation, or wishes using "subjontif"
- Environmental Concerns
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Content Comparisons / Additional Information

IB French Ab Initio SL

2425/ 2426

IB AbFren1/ IB AbFren2

This course will emphasize communicative ability and the cultural awareness necessary to interact in basic everyday social situations to empower students for further work, study, or travel using the language.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Introduction/description of self/others

At school, work, and home

Daily activities, hobbies, and schedules

Shopping and eating around town

Home routines and responsibilities

Travel and sightseeing

The world and environmental concerns

Health and emergencies

Content Comparisons / Additional Information**IB French B SL**

2423/ 2424

IB LBFre1S/ IB LBFre2S

Through the study of a broad range of texts and social interaction, students will develop a high level of language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years**Credits** 2**Primary Assessment**

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)

Narration (reading news, eyewitness accounts)

Written Interaction (personal letters)

Spoken Interaction (movie script, job interview)

Explanation (school improvement proposal)

Argument (debate for/against)

Exploration (TV ads, poetry)

Analysis and Critique (movie review, biography)

Graphics (cartoons, scripting your own cartoon)

Content Comparisons / Additional Information

ESL Department Courses

ESL Reading 9

1056/

ESL 9 Read/

High school ESL reading classes are designed for level three and four ESL students to develop independent vocabulary and comprehension skills to access grade level content reading.

Duration 1 Year **Credits** 1

Primary Assessment

Primary Assessment: tests, quizzes, homework; short and long essays; oral discussions and presentations; research essays

Course Content

Oral Language
Reading Comprehension Skills
Academic and Content Vocabulary

Content Comparisons / Additional Information

ESL Writing 9

1057/

ESL 9 Writ/

High school ESL writing classes are designed for level three and four ESL students to strengthen academic writing skills.

Duration 1 Year **Credits** 1

Primary Assessment

Primary Assessment: tests, quizzes, homework; short and long essays; oral discussions and presentations; research essays

Course Content

Writing Forms
Paragraphs and Essays
Grammar and Mechanics
Oral Language

Content Comparisons / Additional Information

ESL Reading 10

1058/

ESL 10Read/

High school ESL reading classes are designed for level three and four ESL students to develop independent vocabulary and comprehension skills to access grade level content reading.

Duration 1 Year **Credits** 1

Primary Assessment

Primary Assessment: tests, quizzes, homework; short and long essays; oral discussions and presentations; research essays

Course Content

Oral Language
Reading Comprehension Skills
Academic and Content Vocabulary

Content Comparisons / Additional Information

ESL Writing 10

1059/

ESL 10Writ/

High school ESL writing classes are designed for level three and four ESL students to strengthen academic writing skills.

Duration 1 Year **Credits** 1

Primary Assessment

Primary Assessment: tests, quizzes, homework; short and long essays; oral discussions and presentations; research essays

Course Content

Writing Forms
Paragraphs and Essays
Grammar and Mechanics
Oral Language

Content Comparisons / Additional Information

ESL Reading and Writing 11

1062/

ESL 11 R/W/

High school ESL reading classes are designed for level three and four ESL students to develop independent vocabulary and comprehension skills to access grade level content reading.

Duration 1 Year **Credits** 1

Primary Assessment

Primary Assessment: tests, quizzes, homework; short and long essays; oral discussions and presentations; research essays

Course Content

Oral Language
Reading Comprehension Skills
Academic and Content Vocabulary

Content Comparisons / Additional Information

Fine Arts Department Courses

Drawing and Painting 1

655/

DrawPaint1/

With an emphasis on elements of art and principles of design in every art work, students will acquire and apply skills needed for visual expression through the use of various media and techniques related to the visual arts

Duration 1 Semester **Credits** 0.5

Primary Assessment

Skill & Technique 40%
 Creativity & Originality 20%
 Knowledge & Understanding 10%
 Effort 10%
 Final Project 20%

Course Content

Introduction to Elements in Art: Line, Value, Space
Exploring Elements in Art:
Shape, Texture, Pattern, Composition, Color
Principles of Design:
Color, Balance, Form, Emphasis

Content Comparisons / Additional Information

This class is a foundational class for all other art classes (2-D, 3-D, Drawing & Painting II, all IB art).

Drawing and Painting 2

656/ 0

DrawPaint2/

With a greater in-depth development and application of artistic skills, students will use their creative and critical thinking skills to produce works of art for self-expression.

Duration 1 Semester **Credits**

Primary Assessment

Skill & Technique 30%
 Creativity & Originality 30%
 Knowledge & Understanding 10%
 Effort 10%
 Final project 20%

Course Content

Elements of Art:
Line-line drawing
Value-to establish effect or mood
Space- decorative, plastic, shallow, deep or infinite
Texture-self portrait
Shape-Objective, Subjective

Content Comparisons / Additional Information

Prerequisite: Drawing and Painting I

2D Design

660/

2D Design/

Through study, research, and the application of design processes, design elements, and the nature of design, students express their understanding of design principals through creative works of art that are anchored in principals of design.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Application (Project, studio work)
Analysis/Reflection (Critique)
Knowledge/Research (Idea Work Book)

Course Content

Elements and principles of design

Nature of design processes and methodologies

Knowledge-based design support systems

Human-oriented design environments

Rationale, memories, and evolutionary design

Computer-supported collaborative learning

Communities of practice and interest

Learner-centered design

Content Comparisons / Additional Information

Prerequisites: Drawing & Painting1, Drawing & Painting 2

3D Design

661/

3D Design/

Introduction to the materials, techniques, and ideas that comprise the three-dimensional world of "made" things. Natural forms and basic abstract components are researched, explored, and examined towards the end of developing art with three-dimensional sensibility that is consistent with the basic components of artistic organization and composition.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Application (Project, studio work)
Analysis/Reflection (Critique)
Knowledge/Research (Idea Work Book)

Course Content

Elements of design and Principles of design, organizational

Research of design motivation and practical interactions

Methodologies and management of the design processes

Human-oriented design:

environments, rationale, memories, evolutionary design

Cognitive motivations for design

Computer supported work

Learner-centered design.

Content Comparisons / Additional Information

Prerequisites: Geometry, Drawing and Painting 1, Drawing and Painting 2

Students should have an avid interest in descriptive geometry and graphic communications.

Art History

Students will explore all forms of artistic expressions through period, region, and style within a diverse historical and cultural context being able to look at works of art critically, articulating what they see and experience through various projects.

618/

ArtHistory/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Student presentation 20% (Understanding 10%, Knowledge 10%)
 Reflective papers 20%
 Quizzes 20% (Memory 10%, Analysis 10%)
 Final Exam 20%
 Art projects 20%

Course Content

Introduction to Art History

Vocabulary of Art

The Ancient World: Prehistoric-Roman Art

The Middle Ages: Early Christian-Renaissance Art

The Modern World: Baroque-Post Modernism

Content Comparisons / Additional Information**IB Visual Arts SL**

Working independently and collaboratively, students utilize a variety of media and techniques to discover through research, develop through experience and express through production.

2625/ 2626

IB Art1S/ IB Art2S

Duration 2 Years**Credits** 2**Primary Assessment**

IB-IA - Research Workbook (45hr - 30%)
 IB-EA - Studio Work: Exhibition and interview (105hr - 70%)

Course Content

Studio Work:

Aesthetic qualities of visual arts

Relationships between form and meaning in visual arts

Social and cultural functions of visual arts.

Research Workbooks:

Analytical research

Discovery

Interpretation

Media experiments

Content Comparisons / Additional Information

Students will need to work after school on their pieces to be included in their portfolio.

IB Visual Arts HL

2620/ 2621

IB Art1H/ IB Art2H

Working independently and collaboratively, students utilize a variety of media and techniques to discover through research, develop through experience and express through production. This course is designed for students who plan to pursue a visual arts program at the college level.

Duration 2 Years

Credits 2

Primary Assessment

IB-IA - Research Workbook (72hr - 30%)
 IB-EA - Studio Work: Exhibition and interview (168hr - 70%)

Course Content

Studio Work:
Aesthetic qualities of visual arts
Relationships between form and meaning in visual arts
Social and cultural functions of visual arts
Research Workbooks:
Analytical research
Discovery
Interpretation
Media experiments

Content Comparisons / Additional Information

Students will need to work after school on their pieces to be included in their portfolio.

Communication Arts

630/

CommunArts/

Through personal and collaborative experiences students will develop as effective communicators, presenting to a variety of audiences, utilizing a variety of formats to persuade, inform, and inspire.

Duration 1 Semester

Credits 0.5

Primary Assessment

Knowledge and understanding assessments
 Presentation skills
 Personal response and engagement assessments

Course Content

Expository speaking
Persuasive speaking
Impromptu speaking
Listening skills

Content Comparisons / Additional Information

Advanced Communication Arts

629/

AdvComArts/

Through personal and collaborative experiences students will develop as public speakers, debaters, and evaluators learning advanced skills while participating in a variety of speaking and judging activities both inside and outside of the class.

Duration 1 Semester **Credits** 0.5

Primary Assessment

Knowledge: Tests, quizzes homework and performances
 Analysis: Performance based speech presentations
 Reflection: Judging and evaluation of performances.

Course Content

Advanced speaking techniques
Debating
Persuasive theory
Persuasive speaking
Impromptu speaking
Extemporaneous speaking

Content Comparisons / Additional Information

Prerequisites: Students must have instructor permission before enrollment. Students must show proficiency in English and demonstrate effective communication skills.

High School Drama

614/

HS Drama/

Through individual and collaborative experiences, students will be introduced to basic concepts and skill development useful for a well-rounded theatre experience.

Duration 1 Semester **Credits** 0.5

Primary Assessment

Ensemble performance
 Individual performance
 Synergy
 Knowledge assessment
 Written critique
 Skills assessment

Course Content

Introduction to theatre history
Vocabulary of theatre
Technical skills
Acting philosophy and skills
Production process
Theatre critique

Content Comparisons / Additional Information

It is recommended that students interested in taking IB Theatre Arts enroll in the high school theatre class.

IB Theatre Arts SL

2605/ 2606

IB ThArt1S/ IB ThArt2S

Students will understand the nature of theatre and its contributions to society from a global perspective while acquiring technical skills, knowledge about theatre, and the ability to approach and value a wide range of styles.

Duration 2 Years **Credits** 2

Primary Assessment

IB-EA: Research Commission; Practical Play Analysis (50%)
 IB-IA: Performance Skills and Theatre Production; Portfolio (50%)

Course Content

Performance Skills
World Theatre Studies
Practical Play Analysis
Theatre Production

Content Comparisons / Additional Information

Students desiring to take IB Theatre Arts should have taken a drama course and been involved in a TCIS (or other school) production. Students are required to participate in a minimum of one production during the two year program.

IB Theatre Arts HL

2601/ 2602

IB ThArt1H/ IB ThArt2H

Students will understand the nature of theatre and its contributions to society from a global perspective while acquiring technical skills, knowledge about theatre, and the ability to approach and value a wide range of styles.

Duration 2 Years **Credits** 2

Primary Assessment

IB-EA: Research Commission; Practical Play Analysis (50%)
 IB-IA: Performance Skills and Theatre Production; Portfolio (50%)

Course Content

Performance Skills
World Theatre Studies
Practical Play Analysis
Theatre Production
Individual Project

Content Comparisons / Additional Information

Students desiring to take IB Theatre Arts should have taken a drama course and been involved in a TCIS (or other school) production. Students are required to participate in a minimum of two productions during the two year program.

HS Band

680/

Band/

Through regular rehearsal and performance of level appropriate band repertoire, students will develop their potential in musicianship and ensemble skills.

Duration 1 Year **Credits** 1

Primary Assessment

Ensemble Performance
Individual Performance
Rehearsal Contribution
Reflection

Course Content

Performance Etiquette
Performance Practice
Playing Posture
Expression
Ensemble Blend/Cohesion
Notation
Diction
Musical Elements

Content Comparisons / Additional Information

Opportunities for students to play full orchestra repertoire with strings.
Opportunities for students to audition and play in the annual school musical
Opportunities for annual KAIAC festivals and perform with other outstanding musicians from other international schools throughout Korea.
Leadership Opportunities:
Section Leader- 1st chair in a given section (i.e. 2nd trumpet)

Concert Choir

605/

Con Choir/

Through regular rehearsal and performance of level appropriate choral repertoire, students will develop their potential in musicianship and ensemble skills.

Duration 1 Year **Credits** 1

Primary Assessment

Ensemble Performance
Individual Performance
Rehearsal Contribution
Reflection

Course Content

Performance Etiquette
Performance Practice
Singing Posture
Expression
Voice Training
Ensemble Blend/Cohesion
Notation
Diction
Musical Elements

Content Comparisons / Additional Information

Anyone with an interest in singing is welcome to participate.

Music Fundamentals

632/

Music Fund/

Students will build on their existing knowledge of music through the exploration of musical structures and elements. Music software will be used to communicate the visual and aural fundamentals of music which will later be applied through beginning composition.

Duration 1 Semester

Credits 0.5

Primary Assessment

Knowledge and skills: acquisition of concepts

Application and understanding: demonstration of concepts through analysis and composition

Course Content

Notation - pitch and rhythm

Musical symbols

Key signatures

Scales

Intervals

Chords

Aural Awareness

Musical Elements

Content Comparisons / Additional Information

This course is designed for students with at least one year of consistent experience on their instrument.

All activities are geared to increase a student's success in a music ensemble as well as IB Music

High School Strings

634/

HS Strings/

Through regular rehearsal and performance of level appropriate string repertoire, students will develop their potential in musicianship and ensemble skills.

Duration 1 Semester

Credits 0.5

Primary Assessment

Ensemble Performance

Individual Performance (playing tests)

Rehearsal Contribution

Reflection

Course Content

Performance Etiquette

Performance Practice

Playing Posture

Expression

Ensemble Blend/Cohesion

Notation

Diction

Musical Elements

Content Comparisons / Additional Information

Opportunities for students to play full orchestra repertoire with winds, brass and percussion.

Opportunities for students to audition and play in the annual school musical

Opportunities for annual KAIAC festivals and perform with other outstanding musicians from other International Schools through out Korea.

Leadership Opportunities:

Section Leader- 1st chair in a given section (i.e. 2nd violin)

IB Music HL

2640/ 2641

IB Mus1H/ IB Mus2H

Through personal and collaborative experiences, students develop their potential as performers, composers, and listeners by demonstrating, articulating, and responding to music across time and place.

Duration 2 Years

Credits 2

Primary Assessment

IB-IA: Solo Performance (25%), Composition (25%)
 IB-EA: Listening Paper (30%), Musical Investigation (20%)

Course Content

Musical Perception and Analysis
Study of Prescribed Work
Study of Musical Cultures and Genres
Musical Investigation
Performance Practice
Composition
Solo Performance

Content Comparisons / Additional Information

Students are advised to seek a private instructor in order to prepare effectively for solo recitals.

IB Music SL

2645/ 2646

IB Mus1S/ IB Mus2S

Through personal and collaborative experiences, students develop their potential as performers, composers, and listeners by demonstrating, articulating, and responding to music across time and place.

Duration 2 Years

Credits 2

Primary Assessment

IB-IA: Solo Performance OR Group Performance OR Composition (50%)
 IB-EA: Listening Paper (30%), Musical Investigation (20%)

Course Content

Musical Perception and Analysis
Study of Prescribed Work
Study of Musical Cultures and Genres
Musical Investigation
Performance
Composition

Content Comparisons / Additional Information

Students must declare Solo, Group, or Composition option by the end of Semester 1.
 Students selecting the Solo Performance option should seek a private instructor for most effective preparation.

Language Arts Department Courses

English 9

5/

English 9/

Through a study of literary genres, students will improve their fluency in, comprehension of, and responses to poetry, fiction, mythology, non-fiction, and drama by producing oral and written reflections of texts.

Duration 1 Year **Credits** 1

Primary Assessment

Knowledge and skills: quizzes, class discussions, creative responses, short written responses.

Application and understanding: written tests, oral presentations, projects, and essays.

<u>Course Content</u>
Short Story Analysis
Novel - Non-fiction Analysis
Poetry Analysis
Mythology Study
Hero and Epic Literature Analysis
Shakespearean Drama Analysis
Independent Reading Study

Content Comparisons / Additional Information

Sheltered English 9

23/

SheltrEng9/

Through a study of literary genres, students will improve their fluency in, comprehension of, and responses to poetry, fiction, mythology, non-fiction, and drama by producing oral and written reflections of texts adapted for levels of language proficiency.

Duration 1 Year **Credits** 1

Primary Assessment

Knowledge and skills: Quizzes, Class Discussions, Listening Activities, Creative Responses, Short Written Responses

Application and understanding: Written tests, Oral Presentations, Listening Tests, Projects, Essays

<u>Course Content</u>
Short Stories and Non-fiction Analysis
Novel Analysis
Poetry Analysis
Mythology Study
Hero or Epic Literature Analysis
Shakespearean Drama Analysis
Independent Literature Study

Content Comparisons / Additional Information

This course is adapted for English Language Learners in the following manners: texts are shortened, paraphrased, and or replaced; more time is spent on skills, knowledge, and units as needed; summative assessments are adapted.

Writing 1

Through the writing process, students will produce expository, narrative, and persuasive writing, focusing on creative writing with instruction in the 6-Trait writing technique.

21/

Writing 1/

Duration 1 Year

Credits 1

Primary Assessment

Knowledge and skills: Quizzes, journals, class discussions, peer editing, teacher conferencing, homework

Application and understanding: Projects, oral presentations

Course Content

Expository Writing
Narrative Fiction
Poetry
Personality/Career Research
Persuasive
Drama
DOL Instruction
Six Traits Instruction

Content Comparisons / Additional Information

Differentiation: Writing I emphasizes personal, creative writing.

English 10

Through the study of primarily American writers, students will understand and interpret short stories, poetry, novels, and drama and will use the techniques of literary analysis to discover common thematic elements of the texts.

4/

English 10/

Duration 1 Year

Credits 1

Primary Assessment

Quizzes, class discussions, listening activities, creative responses, short written responses, written tests, oral presentations, listening tests, projects, essays.

Course Content

Drama Analysis
Short Story Analysis
Poetry Analysis
Novel Analysis
Greek Roots/Vocabulary Study
Independent Literature Study

Content Comparisons / Additional Information

Sheltered English 10

24/

SheltEng10/

Through the study of primarily American writers, students will understand and interpret short stories, poetry, novels, and drama and will use the techniques of literary analysis to discover common thematic elements of the texts, adapted for level of language proficiency.

Duration 1 Year

Credits 1

Primary Assessment

Quizzes, class discussions, listening activities, creative responses, short written responses, written tests, oral presentations, listening tests, projects, essays.

Course Content

Drama analysis

Short story analysis

Poetry analysis

Independent literature study

Novel analysis - two works

Greek roots and vocabulary study

Drama viewing and analysis

Content Comparisons / Additional Information

This course is adapted for English Language Learners in the following manners: texts are shortened, paraphrased, and or replaced; more time is spent on skills, knowledge, and units as needed; summative assessments are adapted.

Writing 2

22/

Writing 2/

Through the writing process, students will produce expository, narrative, and persuasive writing, focusing on creating a research paper with instruction in the methods of research and 6-Trait writing technique.

Duration 1 Year

Credits 1

Primary Assessment

Knowledge and skills: Journal entries, oral discussions, peer revising/editing, teacher conferencing, homework

Application and understanding: Essays, projects, oral presentations

Course Content

Expository Writing

Research Paper Writing

Persuasive Writing

Narrative Writing

Six Traits of Writing Instruction

DOL Instruction

Vocabulary Word Study

Content Comparisons / Additional Information

Writing II: emphasizes accurate formal academic writing.

Yearbook

Through the creation/production of a school yearbook, students will acquire journalistic skills of writing, editing, layout, and photography through a hands-on approach to learning.

920/

Yearbook/

Duration 1 Year **Credits** 1

Primary Assessment

Practice writing, design/layout and photography assignments; teamwork and interpersonal skills; writing, editing, design and photography assignments (final) for each section of the Kulsai yearbook; on-time assessments (meeting deadlines on a regular basis)

Course Content

Monthly newspaper assignments
Acquiring Basic Skills in Photography
Acquiring Basic Skills in Layout/Design
Section Assignments

Content Comparisons / Additional Information

IB A2 English SL

Students study language, texts, and culture for refinement of language skills and analysis of genre, media, language use, styles, and themes; explore English-speaking cultures; make connections to familiar language and culture; and discuss, argue, and debate -- with competence -- the similarities and differences among texts.

2015/ 2016

IB A2Eng1S/ IB A2Eng2S

Duration 2 Years **Credits** 2

Primary Assessment

Knowledge Assessments: quizzes, homework, oral discussion and presentations, written responses to novels and shorter works, and personal journal responses.

IB-IA Individual Oral (15%), Interactive Oral Activity (15%).
IB-EA Comparative Commentary (25%), Analysis Essay (25%), 2 Written Tasks (20%).

Course Content

Introduction to the language of style analysis
Thematic and style analysis of 6-9 literary works
Style analysis of several non-literary works
Style analysis comparisons of works in all genres
Introduction to oral and written commentary
Introduction to analysis of global social issues
Introduction to analysis of media communication
Practice in vocabulary studies
Practice in formal academic writing
Practice in close reading of all genres

Content Comparisons / Additional Information

Students in both HL and SL will complete the same amount of work in the same amount of time. However, the HL rubric requires a student to produce work that uses nearly perfect English to display sophisticated levels of analysis.

IB A2 English HL

2011/ 2012 IB A2Eng1H/ IB A2Eng2H

Students study language, texts, and culture for the refinement and analysis of context, style, and theme; explore English-speaking cultures; make connections to familiar language and culture; and discuss, argue, and debate -- with sophistication -- similarities and differences among texts.

Duration 2 Years

Credits 2

Primary Assessment

Knowledge Assessments: quizzes, homework, oral discussion and presentations, written responses to novels and shorter works, and personal journal responses.

IB-IA Individual Oral (15%), Interactive Oral Activity (15%).

IB-EA Comparative Commentary (25%), Analysis Essay (25%), 2 Written Tasks (20%).

Course Content

Introduction to the language of style analysis
Thematic and style analysis of 6-9 literary works
Style analysis of several non-literary works
Style analysis comparisons of works in all genres
Introduction to oral and written commentary
Introduction to analysis of global social issues
Introduction to analysis of media communication
Practice in vocabulary studies
Practice in formal academic writing
Practice in close reading of all genres

Content Comparisons / Additional Information

Students in both HL and SL will complete the same amount of work in the same amount of time. However, the HL rubric requires a student to produce work that uses nearly perfect English to display sophisticated levels of analysis.

IB A1 English SL

2005/ 2006 IB A1Eng1S/ IB A1Eng2S

Students engage in the analysis of literature depicting multiple perspectives which reflect the underlying unity of the human experience; explore content, themes, styles, and genres of international works; and articulate independent, critical interpretations and responses in oral and written forms.

Duration 2 Years

Credits 2

Primary Assessment

Knowledge and Understanding: Quizzes, papers, projects, and vocabulary activities. Analysis and Interpretation: Discussion and oral presentations; Oral and written assessments are based on the IB rubrics designed for the different units of study.

IB-IA Individual Oral (15%), Interactive Oral Activity (15%)

IB-EA Comparative Commentary (25%), Analysis Essay (25%), 2 Written Tasks (20%)

Course Content

Introduction to the language of style analysis
Thematic analysis and close reading of three works
Cultural and thematic study of three world literature works
Introduction to the process of oral and written commentary
Genre commentary and close reading of two different works
Commentary and close reading of two different works

Content Comparisons / Additional Information

Standard level IB English A1 students read five fewer works and are given less time on the external exam essays during testing in year two (1.5 hours).

IB A1 English HL

2001/ 2002

IB A1Eng1H/ IB A1Eng2H

Students engage in the analysis of literature depicting multiple perspectives which reflect the underlying unity of the human experience; explore content, themes, styles, and genres of international works; and articulate independent, critical interpretations and responses in oral and written forms.

Duration 2 Years

Credits 2

Primary Assessment

Knowledge and Understanding: Quizzes, papers, projects, and vocabulary activities; Analysis and Interpretation: Discussion and oral presentation; Oral and written assessments are based on the IB rubrics designed for the different units of study.

IB-IA: Individual Oral Presentation (15%), Individual Oral Commentary (15%)
 IB-EA: Written Commentary (25%), Written Essay (25%), World Literature Paper (20%)

Course Content

Introduction to the language of style analysis
Thematic analysis and close reading of four works
Cultural and thematic study of three world literature works
Introduction to the process of oral and written commentary
Genre commentary and close reading of four different works
Commentary and close reading of four works in one genre

Content Comparisons / Additional Information

Higher level has five additional works that the students are responsible for studying. Because of the additional works studied, the HL student is given more time on the external exam essays during testing in year two (2 hours).

IB A1 Self Taught SL

2030/ 2031

IBA1LitSt1/ IBA1LitSt2

If students are IB diploma candidates and are fluent in a language that TCIS does not offer at the A1 level, they can request to take a second IB A1 Language as their Group 2 IB diploma program course.

Duration 2 Years

Credits 2

Primary Assessment

IB-IA Individual Oral Presentation (15%), Individual Oral Commentary (15%)
 IB-EA Written Commentary (25%), Written Essay (25%), World Literature Paper 1 (10%), World Literature Paper 2 (10%)

Course Content

Introduction to the language of style analysis
Thematic analysis and close reading of three works
Cultural and thematic study of three world literature works
Introduction to the process of oral and written commentary
Genre commentary and close reading of two different works
Commentary and close reading of two different works

Content Comparisons / Additional Information

Students taking the IB A! Language Self Taught course only take IB assessments as it is not a formal classroom course.

IB English B HL

2021/ 2022

IB LBEng1H/ IB LBEng1H

Through the study of a broad range of written materials and social interactions, students will develop a higher level of oral and written language proficiency in the domains of work and social relationships. Students research, discuss, and analyze social issues and abstract ideas.

Duration 2 Years

Credits 2

Primary Assessment

Quizzes and Unit Tests: Grammar concepts and vocabulary knowledge; Oral Practice: Discussions, debates, dialogues, interviews, responses to media; Individual oral presentations; Writing Forms: Letters; journals; descriptive, narrative, expository, and persuasive essays

IB-IA- Individual Oral (15%), Interactive Oral (15%)
IB-EA - Paper 1 (40%) Paper 2 (30%)

Course Content

Description (describing oneself, people, feelings)
Narration (reading news, eyewitness accounts)
Written Interaction (personal letters)
Spoken Interaction (movie script, job interview)
Explanation (school improvement proposal)
Argument (debate for/against)
Exploration (TV ads, poetry)
Analysis and Critique (movie review, biography)
Graphics (cartoons, scripting your own cartoon)
Persuasive Essay writing discussion (argument & debate)

Content Comparisons / Additional Information

English B HL is for students who are still building their English academic vocabulary. This process takes at least five years of intense work on the part of the student. English A2 SL and HL courses are for students who are completely fluent in English and do not need focused instruction on vocabulary development and writing.

English 12

2/

English 12/

Through an introduction of primarily British authors with an emphasis on reading comprehension, vocabulary building and writing skills, students gain background essential for college preparation.

Duration 1 Year

Credits 1

Primary Assessment

Knowledge and skills: Quizzes, worksheets, short written responses, oral responses.

Application and understanding: Creative written responses, tests, research paper, oral presentation

Course Content

Analysis of epic poetry in the Anglo-Saxon period
Study of characters and story-telling in Middle Ages
Introduction to drama during the Renaissance
Comparison of styles/themes in the Romantic Period
Explanation of short story/poetry in Modern Period
Practical review for SAT, TOEFL, and college essays

Content Comparisons / Additional Information

Literature selections are adapted (shortened and/or paraphrased) in accordance with the learner. Length and depth of written responses are modified as well.

Creative Writing

42/

CreatWrite/

Through the practice of written exercises, writing strategy application, and journaling both individually and in writing groups, the student will gain confidence in themselves as writers of short stories, plays, and poems.

Duration 1 Semester **Credits** 0.5

Primary Assessment

The class will be graded in four areas: Creativity-40%, Craftmanship - 30%, Communication - 20%, and On Time - 10%.

Course Content

Maintaining a Writer's Notebook
Constructing an updated Psalm
Creative/Descriptive Writing
Creative/Narrative Writing
Advertising Copy
Visual Imagery
Reflexive Writing
Poetry Portfolio
Creation of a class anthology

Content Comparisons / Additional Information

Although the class is not limited, it should be stated that the class is geared toward students who enjoy writing and wish to practice their craft in an artistic environment rather than do an in-depth study of grammar/writing skills covered in Writing I and II.

Newspaper

918/

Newspaper/

Through the creation/production of a school newspaper, students will acquire journalistic skills of writing, editing, layout, and photography through a hands-on approach to learning.

Duration 1 Year **Credits** 1

Primary Assessment

Practice writing, design and photography assignments; teamwork and class contributions in brainstorming sessions; writing, editing, design and photography assignments (final) for each issue of the Golden Dragon; on-time assessments (meeting deadlines for each issue)

Course Content

Acquiring Basic Skills in Interviewing
Acquiring Basic Skills in Reporting & Writing
Acquiring Basic Skills in Photography
Acquiring Basic Skills in Layout & Design
Monthly newspaper assignments

Content Comparisons / Additional Information

Reading for Pleasure

Through the application of various reading strategies, pleasure reading, project creation, log entries, and setting and achieving personal reading goals (based on the Accelerated Reader model), students will gain confidence in themselves as readers as well as improve their reading proficiency.

43/ ReadPleasr/

Duration 1 Semester **Credits** 0.5

Primary Assessment

This is an individualized course in which students set personal reading goals within ranges based on testing. The students are personally assessed and measured through AR tests over six novels and academically assessed through six graded projects: See & Say presentation, Transactional Reading Journals, a character box, SMART assignments, a novel advertising campaign, and a Writer's Craft Seminar. Grades are calculated in four weighted categories: On-level reading 20%, Comprehension 40%, Presentation 30%, On-time 10%.

<u>Course Content</u>
Transactional Reading Journals (Novel Project)
Novel cards and Object Box (Novel Project)
SMART assignments (Novel Project)
Reading Seminar (Culminating Project)
Reading logs
AR goal-setting/record-keeping

Content Comparisons / Additional Information

Science Fiction

Through a chronological and thematic exploration of science fiction in text (short stories and novels) and media (radio programs, film, and television), students will develop their critical reading/viewing as well as idea extrapolation abilities through oral and written means.

41/ SciFiction/

Duration 1 Semester **Credits** 0.5

Primary Assessment

Students are graded in the following weighted categories Presentations and Projects - 30%, Written assessments and lab reports - 40%, On Time - 10%, Process grades - 20%. The course is equally divided between film considerations and literary considerations. Students analyze four films independently and many others in class. They will read the novel "Ender's Game" and use the textbook "Decades of Science Fiction" to create an end-of-course culminating presentation.

<u>Course Content</u>
History of Science Fiction
Robotics Unit
Extrapolation Exercise
Study of "Ender's Game"
Lab Reports - 4 films required
Film studies
"Star Trek" episodes
Science Fiction Through Decades

Content Comparisons / Additional Information

Science Fiction is highly adapted for the reading levels of the student and does not require any prerequisites, although it is limited to Juniors and Seniors only.

Mathematics Department Courses

Algebra 1

105/

Algebra 1/

With an emphasis on building foundational algebraic skills, students use symbolic mathematical language and systematic processing to reach solutions in both concrete and abstract contexts.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes, and tests.

Course Content

Number Theory, Integers, and Rational Numbers

Linear Equations

Polynomials

Ratio, Proportion and Percent

Linear Functions and Inequalities

Factoring

Rational Expressions

Radicals

Quadratic Functions

Probability and Statistics.

Content Comparisons / Additional Information

A scientific calculator is required for this course.

Algebra 1B

113/

Algebra 1B/

With an emphasis on building foundational algebraic skills over two years, students learn to use symbolic mathematical language and systematic processing through hands-on approaches and real-life applications in order to make connections from the concrete to the abstract.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Linear Functions

Systems of Equations

Linear Inequalities

Simplifying Polynomials

Factoring Polynomials

Rational Expressions

Simplifying and Solving Radicals

Quadratic Functions

Statistics

Probability

Content Comparisons / Additional Information

The two year sequence of Algebra 1A and Algebra 1B covers the content of the Algebra 1 course. A scientific calculator is required for this course.

Algebra 1A

111/

Algebra 1A/

With an emphasis on building foundational algebraic skills over two years, students learn to use symbolic mathematical language and systematic processing through hands-on approaches and real-life applications in order to make connections from the concrete to the abstract.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes, and tests.

Course Content

Algebraic Language

Number Theory

Integers

Rational Expressions

Ratio, Proportions, Percents

Linear Equations

Simplifying Expressions

Solving Equations

Solving Inequalities

Graphing Equations and Inequalities

Content Comparisons / Additional Information

The two year sequence of Algebra 1A and Algebra 1B covers the content of the Algebra 1 course. A scientific calculator is required for this course.

Geometry

103/

Geometry/

This course is designed to develop and promote student reasoning and problem solving skills involving geometric concepts and properties. Applications to real life situations and formal geometric logic and proof are emphasized.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Geometric language, tools, and logic

Inductive/deductive reasoning and formal proofs

Parallels and transversals

Triangle inequality and congruence proofs

Properties and characteristics of quadratics

Proportions and similarity

Right triangles and trigonometry

Properties and characteristics of circles

3D characteristics, surface area, and volume

Loci and transformations in coordinate geometry

Content Comparisons / Additional Information

A scientific calculator is required for this course.

Informal Geometry

114/

GeometryIN/

This course is designed to develop and promote student reasoning and problem solving skills involving geometric concepts and properties. Applications to real life situations and a hands-on approach are emphasized as an alternative to traditional formal geometric proof.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Language and Tools of Geometry

Polygons, Polyhedrons and Prisms

Triangles, Congruent Triangles and Inequalities

Parallel Lines

Properties of Quadrilaterals

Perimeter, Area and Volume

Proportion, Similarity and Similar Triangles

Square Roots, Right Triangles, Trigonometric Ratio

Properties of Circles

Coordinate Plane, Transformations and Tessellations

Content Comparisons / Additional Information

This course covers less content than Geometry which allows students more time to master the essential concepts. A scientific calculator is required for this course.

Algebra 2-With Trig

104/

Algebra 2/

With an emphasis on expanding their repertoire of algebraic techniques, students use mathematical language to explore and communicate relationships among variable algorithms, visual representations, and real world models.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Equations, Systems of Equations, and Inequalities

Linear, Logarithmic, and Exponential Functions

Polynomials

Matrices

Radicals and Rational Exponents

Quadratics

Rational Expressions

Probability, Sequences, and Series

Conics

Trigonometry

Content Comparisons / Additional Information

Due to the rapid pacing of this course, students must have achieved at least a B in Geometry or be recommended by their Algebra 1 teacher. A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted.

Algebra 2-No Trig

123/

Alg2NoTrig/

With an emphasis on reinforcing foundational algebraic concepts and skills, students develop mathematical language as they explore and communicate relationships between variables, algorithms, visual representations and real-world models.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Equations and Inequalities

Systems of Equations

Linear Functions

Logarithmic and Exponential Functions

Polynomials

Matrices

Radicals and Rational Exponents

Quadratics

Rational Expressions

Probability, Sequences and Series

Content Comparisons / Additional Information

This course covers less content than Algebra 2-With Trig which allows students more time to master the essential concepts. A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted. The Texas Instruments calculators are used for instruction and demonstration purposes.

Precalculus

102/

Precalc/

This course is designed for passionate math students interested in pursuing high level mathematics. The content enables students to connect algebraic, geometric, and trigonometric reasoning and to recognize and understand the patterns and structures inherent in all branches of mathematics.

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Rational & Polynomial Functions and Graphs

Exponentials and logarithms - Graphs and Equations

Basic Trigonometry - Radians, Trig functions, Graphs

Analytic Trig. - Trig Identities, Solving Trig Equations

Advanced Trig. - Laws of Sine & Cosine, Vectors

Systems of Equations and Inequalities

Matrices and Determinants

Arithmetic & Geometric Sequences, Probability

Analytic Geometry - Conics, Polar Equations

Limits - Graphical, Numerical, and Analytical

Content Comparisons / Additional Information

Due to the rapid pacing of this course, students must have achieved at least a B in Algebra 2 with Trig. A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted.

Statistics

Through hands-on approaches and real-world scenarios, students build foundational understandings of data gathering and analysis in order to make inferences and report reasonable conclusions based on the evidence supplied by the data.

153/

Statistics/

Duration 1 Year**Credits** 1**Primary Assessment**

Students are formally assessed in three major categories: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include daily classroom participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests.

Course Content

Exploring and Gathering Data Responsibly

Displaying Data and Honest Representation of Statistics

Principles of Probability

Random Variables and Expectation Algebra

Distributions, Discrete, Continuous, Normal and otherwise

Sampling Distributions of Means and Proportions

Confidence Intervals with Sample Means & Proportions

Tests of Significance for Sample Means and Proportions

Two Variable Data and Correlation

Chi Squared Procedures and Tests

Content Comparisons / Additional Information

A graphic display calculator is required and must be in the TI-83/84 series. A TI-89 is not permitted. Statistical results will be largely computed by graphic display calculators rather than from involved formulas. Students will also learn how to read statistical tables.

IB Math Studies SL

Math Studies SL prepares students for university study that is non-math focused. The content presents math as both a practical tool and an abstract system of ideas. Students select appropriate problem solving strategies and communicate mathematical processes in a variety of situations.

2111/ 2112

IBMathStu1/ IBMathStu2

Duration 2 Years**Credits** 2**Primary Assessment**

Students are assessed in: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include monitoring class participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests. The IB-IA Portfolio is a 2000 word essay which focuses on analysis and evaluation of information or measurements.
IB-IA: Portfolio (20%)
IB-EA: Paper 1 (40%), Paper 2 (40%)

Course Content

Introduction to the Graphic Display Calculator

Algebra: Gradient, Seq./Series, Systems of Equations

Linear, Quadratic, Exponential & Trigonometric Functions

Set Theory and Venn Diagrams

Logic and Truth Tables

Trigonometry, Laws of Sines and Cosines

Geometry: Surface Area and Volume, 3-D Figures

Probability and Statistics

Introductory Differential Calculus: Gradients & Derivatives

Financial Math: Currency Conversions, Compound Interest

Content Comparisons / Additional Information

A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted.

IB Mathematics SL

The Mathematics SL course is designed for strong math students. The content presents math as both a practical tool and an abstract system of ideas. Through persistent problem solving, students analyze and communicate mathematical arguments, strategies, and the significance of results.

Course Content

Algebra:Seq/Series, Exponents, Logs, Binomial Thrm.
Functions:Composite, Inverse, Quadratic, Exp./ Log.
Graphing: $f(x)$, Solutions of Equations, Transformations
Circular Functions:Radian Measure, Unit Circle
Trigonometry: Sine, Cosine, Tangent, Identities, Equations
Matrices: Definition,Algebra,Determinant, Inverse Matrix
Vectors: Algebraic & Geometric, Scalar Product
Statistics: Descriptive, Distributions, Analysis
Probability: Binomial & Normal Distributions, Diagrams
Calculus: Limits, Differentiation, Integration, Graph Behavior

2105/ 2106

IB Math1S/ IB Math2S

Duration 2 Years**Credits** 2**Primary Assessment**

Students are assessed in: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include monitoring class participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests. The IB-IA Portfolio is comprised of one mathematical investigation and one mathematical modeling task.

IB-IA: Portfolio (20%)

IB-EA: Paper 1 (40%), Paper 2 (40%)

Content Comparisons / Additional Information

Due to the intensity and pacing of this course, students must have achieved a B in Algebra 2 (with trig) to take this course. A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted.

IB Mathematics HL

The IB Mathematics HL course offers students who have a passion for mathematics an intensive, rapidly paced program focused on both mathematical structure and rigorous proof, particularly for math-focused university courses of study and careers.

Course Content

Algebra: Exponents, Logarithms, Complex Numbers
Functions: Domains, Composites, Inverses, Graphing
Polynomials, Exp./ Logs, Equations & Inequalities
Matrices, 3x3 Determinants/Inverses, Linear Systems
Sequences/Series, Math Induction, Binomial Theorem
Circular Functions &Trigonometry, DeMoivre's Theorem
Vectors, 3-dimensional Geometry and Trigonometry
Counting Principles, Combined & Conditional Probabilities
Stats: Descriptive, Inferential, Distributions, t-Tests
Calculus and Applications, Differential Equations

2101/ 2102

IB Math1H/ IB Math2H

Duration 2 Years**Credits** 2**Primary Assessment**

Students are assessed in: Knowledge/Skills, Reasoning/Analysis/Application, and Communication. Methods of assessment include monitoring class participation, daily student work, peer review and evaluation, investigations and projects, quizzes and tests. The IB-IA Portfolio is comprised of one mathematical investigation and one mathematical modeling task.

IB-IA: Portfolio (20%)

IB-EA: Paper 1 (30%), Paper 2 (30%), Paper 3 (20%)

Content Comparisons / Additional Information

Due to the intensity and rapid pacing of this course, students must have achieved either an A in Algebra 2 (with trig) or a B in precalculus to take this course. A graphic display calculator is required and must be in the TI-83/84 series; the TI-89 is not permitted.

Physical Education Department Courses

Fitness for Life

815/

FitnessLif/

Students define the concepts of physical fitness and health and explore the importance of maintaining a healthy lifestyle and staying physically fit throughout life.

Duration 1 Semester

Credits 0.5

Primary Assessment

Quizzes, process, teacher observation, classwork, and journals
 Major Project-Design a personal fitness program
 Unit Tests-Test student knowledge and determine if students understand the practical applications of the topics

Course Content

Biomechanical concepts for different movements
Sports psychology's influence on physical fitness
Consequences and outcomes of physical fitness
Family health and personal health
Mental, emotional, and physical health
Substance use and abuse
Physical activity and participation
Maintaining an active lifestyle
Designing a personal fitness program
Monitoring and adjusting activity levels

Content Comparisons / Additional Information

--

Individual Sports

824/

IndSports/

Students gain knowledge and physical skills that they can incorporate into various recreational activities in and outside of the school setting to promote lifelong fitness and recreational enjoyment.

Duration 1 Semester

Credits 0.5

Primary Assessment

Journals, teacher observation, self-assessment, and activity pre-tests
 Activity post-tests
 Individual sports rules tests

Course Content

Advanced skills in selected physical activities.
Biomechanical concepts of movement.
Physiological principles governing fitness.
Factors that impact the ability to participate.
Consequences and outcomes of participation.
How to maintain an active lifestyle.
Goal setting and achievement in recreation
The concepts of sportsmanship

Content Comparisons / Additional Information

--

Team Sports

823/

TeamSports/

Students learn knowledge and physical skills they can incorporate in various sports activities in and out of the school setting to promote life-long fitness and team cooperation.

Duration 1 Semester

Credits 0.5

Primary Assessment

Self-assessment, journals, teacher observation, participation, skills pre-test
Skills post-test
Sports rules tests

Course Content

Learning advanced sport-specific skills
Sports psychology and its effect on performance
Learning offensive and defensive strategies
Learning to maintain an active lifestyle
Using leader and follower roles
Working with others in a sport activity
Understanding the concept of sportsmanship
Working with persons of diverse backgrounds

Content Comparisons / Additional Information

--

Weight Lifting

805/

Weight Lft/

Students learn to develop and implement a personal weight lifting program and learn how this type of program can influence the fitness level of an individual.

Duration 1 Semester

Credits 0.5

Primary Assessment

Journals, lifting chart, teacher observation, fitness pre-test, self-evaluation
Major project: Design and implement a lifting program and chart personal progress
Fitness post-test to gauge improvement

Course Content

Setting personal fitness goals
Creating an action plan based on long range goals
Implementing an action plan
Tracking progress on the action plan
Studying nutrition and its effects on the quality of life
Designing a personal weight lifting plan
Improving muscular strength and endurance

Content Comparisons / Additional Information

--

Science Department Courses

Biology 1

Students investigate life processes and systems by exploring a foundational body of knowledge, practicing the experimental design process, and evaluating the impact of scientific research in order to acquire the practices and analytical skills of successful science students.

Course Content

Science of Biology

Organization and Characteristics of Life

Biochemistry

Enzyme Function

Biological Classification

Cytology

Cellular Transport: Active and Passive

Photosynthesis

Cellular Respiration

Cell Division: Mitosis and Meiosis

270/

Biology 1/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Biology I is a required course for all students and should be completed during ninth or tenth grade. This course is a prerequisite for entry into Biology II.

Biology 2

Students investigate a selected set of life processes and systems to develop a body of knowledge, participate in laboratory experiences, and explore the impact of scientific research in order to acquire the practices and analytical skills of successful science students.

Course Content

Structure and Function of DNA

Cell Processes involved in Protein Synthesis

Cell and Human Genetics Extensions

Ecosystem Processes

Human Impacts to Ecosystems

Energy and Matter Flows in Ecosystems

Natural Selection as a Biological Process

Earth's Biological History

Discussion of Intelligent Design

Laboratory Techniques and Processes

271/

Biology 2/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Biology 2 is an elective course open to all students that have completed Biology I. This course is highly recommended for students planning to enter higher level IB Biology.

Sheltered Biology 1

Students investigate life processes and systems by exploring a foundational body of knowledge, practicing the experimental design process and evaluating the impact of scientific research in order to acquire the practices and analytical skills of successful science students.

Course Content

Science of Biology

Organization and Characteristics of Life

Biochemistry

Enzyme Function

Biological Classification

Cytology

Cellular Transport: Active and Passive

Photosynthesis

Cellular Respiration

Cell Division: Mitosis and Meiosis

241/

SheltBioI/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Sheltered Biology I is a required course for ESL students and should be completed during ninth or tenth grade. This course is a prerequisite for entry into Sheltered Biology 2 or Biology 2.

Sheltered Biology 2

Students investigate a selected set of life processes and systems to develop a body of knowledge, participate in laboratory experiences, and explore impact of scientific research in order to acquire the practices and analytical skills of successful science students.

Course Content

Structure and Function of DNA

Cell Processes Involved in Protein Synthesis

Cell and Human Genetics Extension

Ecosystem Processes

Human Impacts to Ecosystems

Energy and Matter Flows in Ecosystems

Natural Selection as a Biological Process

Earth's Biological History

Discussion of Intelligent Design

Laboratory Techniques and Processes

242/

SheltBio2/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Sheltered Biology 2 is an elective course open to all ESL students that have completed Sheltered Biology I. Successful completion of this course fulfills the prerequisite requirement for entry into higher level IB Biology.

IB Biology SL

Students investigate life processes and systems by studying a core body of knowledge, designing both individual and collaborative laboratory experiences, and exploring the ethical impacts of scientific research in order to acquire the practices and analytical skills of successful scientists.

2203/ 2204

IB Bio1S/ IB Bio2S

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2 (32%), Paper 3 (24%)

Content Comparisons / Additional Information

Students taking standard level should have a general understanding from prior courses and a general interest in the field. This class involves 80 hours of Core Instruction, 30 hours of Option Topic instruction, and 40 hours of Internal Assessment.

Course Content

The science of biology (Nature of science)

Cytology (Structure and Function)

Chemistry of Life (Cellular Macromolecules)

DNA Structure and Replication

Protein Synthesis and Enzyme Activity

Genetics and Biotechnology

Ecology and Evolution

Photosynthesis and Respiration

Physiology of Exercise

Cells and Energy

IB Biology HL

Students investigate life processes and systems by studying a core body of knowledge, designing both individual and collaborative laboratory experiences, and exploring the ethical impacts of scientific research in order to acquire the practices and analytical skills of successful scientists.

2201/ 2202

IB Bio1H/ IB Bio2H

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2 (36%), Paper 3 (20%)

Content Comparisons / Additional Information

Due to the rapid pace and the rigor of reading required in HL biology, students should have an advanced level of English fluency. Additionally, students taking higher level biology should have a strong background from previous biology courses as well as a high interest in the field of biology. The IB-IA requires a minimum of 60 hours of lab work throughout the two years.

Course Content

The science of biology (Nature of science)

Cytology

Biochemistry

Nucleic Acids and Proteins

Cell Respiration and Photosynthesis

Genetics and Biotechnology

Ecology and Evolution

Plant Science

Human Health and Physiology

Neurobiology and Behavior

Chemistry 1

Students investigate a selected set of topics related to matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics and analytical skills of successful science students.

Course Content

Classification of Matter

Interactions and Properties of Matter

Periodic Table

Classification of Elements

Bonding

Nomenclature

Balancing Chemical Equations

Types of Reactions

Acids and Bases

Metallic and Non-Metallic Properties

272/

Chemistry1/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Chemistry I is a required course for all students and should be completed during ninth or tenth grade. This course is a prerequisite for entry into Chemistry II.

Chemistry 2

Students investigate a selected set of topics related to matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics, and analytical skills of successful science students.

Course Content

Electrons in Atoms

Geometry of Molecules

Oxidation and Reduction

Electrolysis

Stoichiometry

The Mole

Solutions

Chemical Analysis

Rates of Reactions (Kinetics)

Organic Chemistry

273/

Chemistry2/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Chemistry 2 is an elective course open to all students that have completed Chemistry I. This course is highly recommended for students planning to enter higher level IB Chemistry.

Sheltered Chemistry 1

245/

SheltChemI/

Students investigate a selected set of topics related to matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics and analytical skills of successful science students.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Course Content

Classification of Matter

Interactions and Properties of Matter

Periodic Table

Classification of Elements

Bonding

Nomenclature

Balancing Chemical Equations

Types of Reactions

Acids and Bases

Metallic and Non-Metallic Properties

Content Comparisons / Additional Information

Sheltered Chemistry I is a required course for ESL students and should be completed during ninth or tenth grade. This course is a prerequisite for entry into Sheltered Chemistry 2 or Chemistry 2.

Sheltered Chemistry 2

246/

SheltChem2/

Students investigate a selected set of topics related to matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics and analytical skills of successful science students.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Course Content

Electrons in Atoms

Geometry of Molecules

Oxidation and Reduction

Electrolysis

Stoichiometry

The Mole

Solutions

Chemical Analysis

Rates of Reactions (Kinetics)

Organic Chemistry

Content Comparisons / Additional Information

Sheltered Chemistry 2 is an elective course open to all ESL students that have completed Sheltered Chemistry I. Successful completion of this course fulfills the prerequisite requirement for entry into higher level IB Chemistry.

IB Chemistry SL

2222/ 2223

IB Chem1S/ IB Chem2S

Students investigate matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics, and analytical skills of successful scientists.

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2 (32%), Paper 3 (24%)

Content Comparisons / Additional Information

Although the core topics are the same in SL as in HL, the HL course includes significantly more depth for each topic and the inclusion of one additional optional topic. SL requires 40 hours of lab work, and HL requires 60 hours of lab work.

Course Content

Stoichiometry

Atomic Theory and Periodicity

Bonding and States of Matter

Energetics

Kinetics

Equilibrium and Acid / Base Reactions

Oxidation and Reduction

Organic Chemistry

Advanced Physical Organic Chemistry

Environmental Chemistry

IB Chemistry HL

2220/ 2221

IB Chem1H/ IB Chem2H

Students investigate matter and the changes it undergoes, design and carry out practical laboratory experiences, and process information in both individual and collaborative settings in order to acquire the practices, ethics, and analytical skills of successful scientists.

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2 (36%), Paper 3 (20%)

Content Comparisons / Additional Information

Although the core topics are the same in SL as in HL, the HL course includes significantly more depth for each topic and the inclusion of one additional optional topic. SL requires 40 hours of lab work, and HL requires 60 hours of lab work.

Course Content

Stoichiometry

Atomic Theory and Periodicity

Bonding and States of Matter

Energetics

Kinetics

Equilibrium and Acid / Base Reactions

Oxidation and Reduction

Organic Chemistry / Further Organic Chemistry

Environmental Chemistry

Fuels and Energy

Physics 1

Students investigate the underlying principles that govern a selected set of phenomena of the universe by studying a core body of knowledge, designing and carrying out laboratory experiences, and developing analytical skills of successful science students.

Course Content

Measurement of Quantities including Units and Notations
Thermal Expansion in Three Phases of Matter
Particle Model and Kinetic Theory of Matter
Energy Types (Forms), Sources and Transformations
Heat Transfer by Conduction, Convection and Radiation
Electrostatics: Charges, Production and Detection
Electrical Circuits: Types, Components and Diagrams
Practical Circuits Considering Costs, Safety and Application
Properties of Magnets, Magnetic Fields and Electromagnets
Relationship between Electricity and Magnetism

274/0

Physics 1/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Physics I is a required course for all students and should be completed during ninth or tenth grade. This course is a prerequisite for entry into Physics II.

Physics 2

Students investigate the underlying principles that govern a selected set of phenomena of the universe by studying a core body of knowledge, designing and carrying out laboratory experiences, and developing analytical skills of successful science students.

Course Content

Properties of Waves
Properties of Sound
Reflection and Refraction of Light
Displacement, Velocity, and Acceleration
Falling Objects
Types of Forces and Equilibrium
Newton's Three Laws of Motion
Electric Circuits: Voltage and Resistance
Work and Power
Conservation of Energy

275/

Physics 2/

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Knowledge and Understanding (60%): homework assignments, quizzes, tests, and classroom projects

Practical Application (25%): experimental design, performance of lab skills, and lab analysis

Application of Scientific Concepts to Global Issues (15%): class discussions, writing assignments, and projects

Content Comparisons / Additional Information

Physics 2 is an elective course open to all students that have completed Physics I. This course is highly recommended for students planning to enter higher level IB Physics.

IB Physics SL

Students investigate the underlying principles that govern the phenomena of the universe by studying a core body of knowledge, designing and carrying out laboratory experiences, and developing the analytical skills of successful scientists.

2240/ 2241

IB Phys1S/ IB Phys2S

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2 (32%), Paper 3 (24%)

Content Comparisons / Additional Information

Students taking standard level should have an introductory understanding of physics from prior courses and an interest in the subject. The IB-IA requires a minimum of 40 hours of lab work throughout the two years. A graphing calculator is required; the TI 83+ or 86 is recommended.

Course Content

Principles of Physics and Measurement

Kinematics

Forces and Dynamics

Thermal Properties of Matter and Ideal Gases

Waves

Electrostatics

Electrodynamics

Magnetism

Atomic and Nuclear Physics

Relativity

IB Physics HL

Students investigate the underlying principles that govern the phenomena of the universe by studying a core body of knowledge, designing and carrying out laboratory experiences, and developing analytical skills of successful scientists.

2242/ 2243

IB Phys1H/ IB Phys2H

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge and Understanding: homework assignments, quizzes, tests, and classroom projects. These assessments determine 75% of each year's TCIS grade.

Laboratory assessments include: experimental design, performance of lab skills, and lab analysis. These assessments determine 25% of each year's TCIS grade.

IB-IA Laboratory Portfolio (24%)

IB-EA Paper 1 (20%), Paper 2(36%), Paper 3(20%)

Content Comparisons / Additional Information

Students taking higher level physics should come with a strong background from previous physics courses as well as a high interest in the field of physics. The IB-IA requires a minimum of 60 hours of lab work throughout the two years. A graphing calculator is required; the TI 83+ or TI86 is recommended.

Course Content

Principles of Physics and Measurement

Kinematics

Forces and Dynamics

Thermal Concepts, thermodynamics, and ideal gases

Waves

Optics

Electrostatics

Electrodynamics and Magnetism

Atomic, Quantum, and Nuclear Physics

Relativity

Social Studies Department Courses

Geography

321/

Geography/

Geography is a one-year course that examines major themes from a comparative regional perspective by investigating how physical features, culture, demographic patterns, history, current events and environmental concerns have shaped the world while emphasizing students' critical thinking skills.

Duration 1 Year**Credits** 1**Primary Assessment**

Knowledge (40%): Quizzes, Quarter Exams
 Analysis (30%): Quarter Current Events Projects
 Application (10%): Interactive Notebook
 Presentation (10%): Individual Oral Presentations, Group Oral Presentations
 Classwork (10%): Written Homework Assignments, Class Discussions

Course Content

Physical and Cultural Geographic Concepts

North America

Latin America

Europe

Russia and the Eurasian Republics

North Africa

Southwest Asia

Subsaharan Africa

Asia

Australia, Oceania and Antarctica

Content Comparisons / Additional Information**Sheltered Geography**

316/

SheltrGeog/

Sheltered Geography is a one-year course that examines major themes from a comparative regional perspective by investigating how physical features, culture, demographic patterns, history, current events and environmental concerns have shaped the world while emphasizing students' language acquisition skills.

Duration 1 Year**Credits** 1**Primary Assessment**

Knowledge (40%): Quizzes, Quarter Exams
 Analysis (30%): Quarter Current Events Projects
 Application (10%): Interactive Notebook
 Presentation (10%): Individual Oral Presentations, Group Oral Presentations
 Classwork (10%): Written Homework Assignments, Class Discussions

Course Content

Physical and Cultural Geographic Concepts

North America

Latin America

Europe

Russia and the Eurasian Republics

North Africa

Southwest Asia

Sub-saharan Africa

Asia

Australia, Oceania and Antarctica

Content Comparisons / Additional Information

US History

305/

US History/

Students will develop their ability to critically analyze, evaluate, interpret, and synthesize key historical materials dealing with themes in American history from colonial times to the present.

Duration 1 Year

Credits 1

Primary Assessment

Knowledge: quizzes, journals, group presentations
 Analysis: journals, end of unit essay tests

Course Content

Colonial America
American Revolution
Development of the American Political System
Civil War & Reconstruction
Development of the Industrial U.S.
Progressive Movement & World War I
Great Depression
World War II
Cold War & Civil Rights
Foreign Policy & Domestic Politics

Content Comparisons / Additional Information

Sheltered US History

352/

ShelHisUS/

ELL students will develop their ability to critically analyze, evaluate, interpret and synthesize key historical materials dealing with themes in American history from colonial times to the present.

Duration 1 Year

Credits 1

Primary Assessment

Knowledge/Concepts -35% (quizzes, tests, homework, daily work)
 Analysis & Evaluation - 20% (tests, assignments, projects)
 Application - 20% (tests, assignments, projects)
 Presentation/Communication - 15% (assignments, projects)
 On-Time - 10% (homework, assignments, projects)

Course Content

Colonial America
American Revolution
Development of the American Political System
Civil War & Reconstruction
Development of the Industrial U.S.
Progressive Movement & World War I
Great Depression
World War II
Cold War & Civil Rights
Foreign Policy & Domestic Politics

Content Comparisons / Additional Information

Comparative Governments

326/

CompGovt/

Students will examine the political systems of democratic, Third World, communist and formerly communist states within an historical and comparative framework, allowing students to gain a foundational understanding of the world's diverse political structures and practices.

Duration 1 Semester

Credits 0.5

Primary Assessment

Knowledge - 40% (quizzes, projects, essays, written responses)
 Presentation - 10% (presentations, projects, essays)
 Analysis - 30% (essays, written responses, projects)
 On-Time - 10% (homework, projects)
 Application - 10% (projects, presentations)

Course Content

Introduction: Political Terms
Democracies
Former Communist Regimes
Description of the Third World
States in the Third World

Content Comparisons / Additional Information

Requires a high reading level and knowledge of basic political terms.

Economics

325/

Economics/

This class examines how economics affects the lives of individuals and how individuals' microeconomic choices involving scarcity, productivity, exchange, supply, demand, and competition affect the macroeconomies of representative countries in the Americas, Europe, Central Eurasia, Asia, and Africa.

Duration 1 Semester

Credits 0.5

Primary Assessment

Knowledge (40%): Quizzes, Quarter Exams
 Analysis (30%): Quarter Current Events Projects
 Application (10%): Interactive Notebook
 Presentation (10%): Individual Oral Presentations, Group Oral Presentations
 Classwork (10%): Written Homework Assignments, Class Discussions

Course Content

Bases of Comparison for Economic Systems
History and Theory of Capitalism
History and Theory of Socialism
Economics of the Developing World
Declining Capitalism
Planning in the Market Economy
Political Economy of Central Planning
Socialist Economic Reform
After the Economic Bubble
Continuing Economic Revolution

Content Comparisons / Additional Information

Psychology

Students will study the nature and functioning of the human mind to gain an understanding of how biology, cognitive processes, society, and change affect human behavior.

306/

Psychology/

Duration 1 Year**Credits** 1**Primary Assessment**

Knowledge/Concepts - quizzes, tests, projects, presentations
 Analysis & Evaluation - tests, projects, presentations
 Application - presentations, projects
 Presentation/Communication - assignments, projects
 On-Time - homework, assignments, projects

Course Content

Research Methods

Developmental Psychology

Biological Psychology

Learning and Cognitive Processes

Personality and Individuality

Abnormal Psychology

Social Psychology

History of Psychology

Content Comparisons / Additional Information**IB History SL**

Students study continuity and change in history from an international perspective, focusing on the development of critical thinking through analysis and synthesis of historical materials covering major themes of the 20th century.

2303/ 2304

IB WHist1S / IB WHist2S

Duration 2 Years**Credits** 2**Primary Assessment**

Written essays, quizzes, presentations, projects, debates, homework and tests. Through the IB-IA Historical Investigation, students examine historical evidence to critically investigate and analyze an historical topic of their choice. The IB-EA consists of two essay type exams totaling 2.5 hours.

IB-IA Historical Investigation (25%)
 IB-EA Paper 1 (1hr - 30%), Paper 2 (1.5hr - 45%)

Content Comparisons / Additional Information

In SL the students do not have a regional focus (Paper 3) essay exam.

Course Content

The USSR under Stalin, 1924 to 1941 (Focus)

The Cold War, 1960-1979 (Focus)

Causes, Practices and Effects of War

WWI & II, Russian Revolution, Korean War, Vietnam War

The Rise of Single-Party States

Germany (Hitler), Russia (Lenin, Stalin), Cuba (Castro)

The Cold War: Wartime Conference

Yalta, Potsdam 1945; Truman Doctrine

Marshall Plan, NATO, COMECON, Warsaw Pact

Containment, Non-Alignment, Arms Race, Détente

IB History HL

Students study continuity and change in history from an international perspective, focusing on the development of critical thinking through analysis and synthesis of historical materials covering major themes of the 20th century.

2301/ 2302

IB WHist1H / IB WHist2H

Duration 2 Years**Credits** 2**Primary Assessment**

Written essays, quizzes, presentations, projects, debates, homework and tests. Through the IB-IA Historical Investigation, students examine historical evidence to investigate and analyze one historical topic of their choice. The IB-EA consists of three essay exams totaling 5.5 hours.

IB-IA Historical Investigation (20%)
IB-EA Paper 1 (1hr - 20%), Paper 2 (1.5hr - 25%),
Paper 3 (2.5hr - 35%)

Content Comparisons / Additional Information

HL students are required to write an additional IB exam dealing with the history of the Americas.

Course Content

Causes, practices, and effects of war

World War I

World War II

Cold War

Korean War

U.S. Civil War

Great Depression

U.S. Civil Rights Movement

Vietnam War

U.S. Foreign Policy, 1898-1995

IB ITGS SL

Information Technology in a Global Society (ITGS) - Through the study and application of information technology (IT) systems, students analyze and develop feasible solutions to social, ethical, and technological problems and explore the impact of technology on cultures, groups, and individuals.

2325/ 2326

IB ITGS1S / IB ITGS2S

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge: quizzes, homework, use of application software, oral discussion. Analysis: writing of research essays, end of unit essay tests, oral presentations, software projects. Analysis assessments are based on the IB assessment criteria from the IB syllabus pages 38 - 51.

IB-IA- Project (Logbook, Product, Report-2,500wd - 20%).

IB-EA- Paper 1 (1hr - 25%), Paper 2 (2hr - 45%)

Content Comparisons / Additional Information

The IB-IA technology project is a culmination of the computer application skills learned during the course. The project consists of a logbook, the application product, and a written report of 2,500 words. Although there are no research papers in the IB-IA, the exams are all essay based questions.

Course Content

Historical context of IT systems (Moore's Law)

Hardware, Software, Interface Basics

Using: WP, SS, DB, PPT, DTP, HTML

Data Communications via LAN, WAN, Internet

Systems/Data Security and Reliability

IT Uses and Issues in: Business, Education, Government,

Arts & Entertainment, Health and Science

Simulations and Virtual Reality

Artificial Intelligence and Robotics

Social and ethical issues resulting from IT development

IB ITGS HL

Information Technology in a Global Society (ITGS) - Through the study and application of information technology (IT) systems, students analyze and develop feasible solutions to social, ethical, and technological problems and explore the impact of technology on cultures, groups, and individuals.

2321 / 2322

IB ITGS1H / IB ITGS2H

Duration 2 Years**Credits** 2**Primary Assessment**

Knowledge: quizzes, homework, use of application software, oral discussion. Analysis: writing of research essays, end of unit essay tests, oral presentations, software projects. Analysis assessments are based on the IB assessment criteria from the IB syllabus pages 38 - 51.

IB IA - Portfolio: 4 Pieces (1,000 words each) 20%;
IB EA- Paper1 (1hr - 20%), Paper2 (2hr - 35%),
Paper3 (1hr - 25%)

Content Comparisons / Additional Information

Due to the inclusion of four pieces of writing at the higher level, English fluency is important for success. The final piece of writing includes an interview with a technology specialist as a research component. Six areas of impact are studied at higher, as opposed to four at standard level. Higher level does not complete a technology project for IB-IA.

Course Content

Historical context of IT systems (Moore's Law)

Hardware, Software, Interface Basics

Using: WP, SS, DB, PPT, DTP, HTML

Data Communications via LAN, WAN, Internet

Systems/Data security and reliability

IT Uses and Issues in: Business, Education, Government,

Arts and Entertainment, Health and Science

Simulations and Virtual Reality

Artificial Intelligence and Robotics

Social and ethical issues resulting from IT development

IB Theory of Knowledge

Using reflection, questioning, and the critical analysis of knowledge claims, students investigate different ways of knowing and make connections between their own experiences as learners and specific subject areas with due regard to accuracy, academic honesty, and an awareness of different cultural perspectives.

2901 / 2902

IB TOK1 / IB TOK2

Duration 1 Year**Credits** 1**Primary Assessment**

Assessments include classroom discussion, journal writing, an externally assessed essay dealing with an IB-prescribed topic, and an internally assessed oral presentation.

Content Comparisons / Additional Information

The TOK grade as tabulated by the IBO will be used in conjunction with the IB extended essay to allocate students up to three bonus points towards the IB diploma.

Course Content

Perception as a Way of Knowing

Language as a Way of Knowing

Emotion as a Way of Knowing

Logic as a Way of Knowing

Natural Science as an Area of Knowledge

Human Science as an Area of Knowledge

History as an Area of Knowledge

The Arts as an Area of Knowledge

Math as an Area of Knowledge

Ethics as an Area of Knowledge

Technology Department Courses

Computer Graphics 1

707/

CompGraph1/

Students learn basic knowledge of graphic design concepts, explore software applications as tools, and produce effective works for visual communication in the digital age. This is primarily a hands-on computer course.

Duration 1 Semester

Credits 0.5

Primary Assessment

Grades are primarily based on projects that require the students to show their ability to use and apply the skills associated with the appropriate use of the software presented during the course. Quizzes are used to assess course content vocabulary.

Course Content

Design Terminology

Color Theory

Typography

Design Concepts

Photo Editing Software - bitmap graphics

Optimizing images for the web

Introduction to Web Publishing

Drawing Software - vector graphics

Content Comparisons / Additional Information

Computer Graphics 2

708/

CompGraph2/

Students deepen their knowledge of graphic design concepts, explore software applications as tools to produce effective works of visual communication, and consider the impact those works have on individuals and society.

Duration 1 Semester

Credits 0.5

Primary Assessment

Grades are primarily based on projects that require the students to show their ability to use and apply the skills and design concepts covered in the course. Quizzes are used to assess course content vocabulary.

Course Content

Analysis of web page styles

Web site structure and design

Impact of design on specific audiences

Designing illustrations for specific communications

Printing layout concepts and processes

Integration of multiple applications

Content Comparisons / Additional Information

Computer Science 1: Intro to Programming

711/

CompSci1/

Computer science deals with the solving of problems using computers. The process of logical problem-solving is introduced through projects that require analysis, planning and debugging for the implementation of student solutions. The Java language micro environment "Jeroo" is used for the programming projects.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Programming knowledge and skills are developed through Java programming projects. Projects require hand written design, fully debugged source code, and evidence of functioning programs. Units culminate in a test consisting of written responses for programming knowledge and solving a problem in the Java programming language.

Course Content

A brief history of programming languages and Java
The Jeroo microworld
Problem analysis and programming of sequential processes
Step-wise refinement and use of methods (procedures)
Flowcharting
Conditional statements
Control structures
Problem analysis and programming with control structures
Introduction to variables

Content Comparisons / Additional Information

Students must have access to a computer that can have the Java programming environment installed.

Computer Science 2: Intermediate Programming

712/

CompSci2/

Computer science deals with the solving of problems using computers. An understanding of logical problem-solving is developed through the analysis, planning, and implementation of programming solutions. The Java language is used for the programming language.

Duration 1 Semester**Credits** 0.5**Primary Assessment**

Programming knowledge and skills are developed through Java programming projects. Projects require hand written design, fully debugged source code, and evidence of functioning programs. Units culminate in a test consisting of written responses for programming knowledge and solving a problem in the Java programming language.

Course Content

Introduction to variable types
Using an Integrated Programming Environment (IDE)
Control Structures with variables
Using Classes
Introduction to GUI programming
Using Applets
Arrays

Content Comparisons / Additional Information

Students must have access to a computer that can have the Java programming environment installed.