

## オンラインシラバス 高校2年生 インターナショナルコース

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教科	科目	コース	授業時間	担当者
国語	国語表現	international	4	高橋直

到達目標
様々な評論文を読みすすめ、言語論・文化論・科学論・環境論など主要なテーマの理解を深めながら、それぞれの論に対し、自分なりの意見を持ち、それを表現できるようになること。

授業の進め方・学習方法
小論文の教材を読み、内容を理解したうえで、週に1つずつ300字から800字の要約・小論文を書き進める。

授業スケジュール	
1学期	課題文型・データ読み取り型の小論文を読み、要約・自分の意見と論述を書いてみる。 入試漢字コア2800より毎週20個小テスト
1学期中間試験	
1学期	課題文型・データ読み取り型の小論文を読み、要約・自分の意見と論述を書いてみる。 入試漢字コア2800より毎週20個小テスト
1学期期末試験	
2学期	課題文型・データ読み取り型の小論文を読み、要約・自分の意見と論述を書いてみる。 入試漢字コア2800より毎週20個小テスト
2学期中間試験	
2学期	これまでの基礎トレーニングを受けて、実際の入試問題より小論文の記述対策。 入試漢字コア2800より毎週20個小テスト
2学期期末試験	
3学期	これまでの基礎トレーニングを受けて、実際の入試問題より小論文の記述対策。 入試漢字コア2800より毎週20個小テスト
学年末試験	

成績評価方法		
種別	割合(%)	評価基準など
定期試験		論述課題を提出して、添削するため、原則定期試験は行わない
レポート	0~80%	
小テストなど	20%	
授業での取り組み	0~80%	

教科書・教材		
書名	出版社	備考
「論理で書ける小論文」出口汪	水王舎	
入試漢字2800	桐原書店	

担当者からのアドバイス
毎週自分の言葉で意見を書くことは大変ですが、結論・理由(論理的理由)・理由を支える根拠を常に意識しながら書き進めることで、論理的な思考力を身に付けることができるので、頑張りましょう。

教科	科目	コース	授業時間	担当者
地理歴史	地理総合	International	1	村田

到達目標
地球や地球上の様々な地域についてのイメージを掴み、地理的思考力の土台を構築する。

授業の進め方・学習方法
プリントや教科書、地図帳を用いて授業を行う。1学期に地球の全体の姿や成り立ちを捉え、地球と諸地域の気候を理解する。2学期はさらに地球上の諸地域について理解を深める。3学期は1学期・2学期に学習した地球の地域にまつわる諸課題について考察し、解決策を探る。 なお、各テーマをより深く理解するために、シラバスを変えて授業を進めることがあります。

授業スケジュール	
1学期	1部 地図や地理情報システムでとらえる現代世界 1章 地図や地理情報システムと現代世界 2章 結びつきを深める現代世界
1学期中間試験は実施しない	
1学期	2部 国際理解と国際協力 1章 生活文化の多様性と国際理解
1学期期末試験	
2学期	2部 国際理解と国際協力 1章 生活文化の多様性と国際理解
2学期中間試験は実施しない	
2学期	2部 国際理解と国際協力 2章 地球的課題と国際協力
2学期期末試験	
3学期	3部 持続可能な地域づくりと私たち 1章 自然環境と防災 2章 生活圏の調査と地域の展望
学年末試験	

成績評価方法		
種別	割合(%)	評価基準など
定期試験	60%	定期試験を中心に、出席や小テストなど授業での取組状況を平常点として加味して評価を行う。
レポート	0~40%	
小テストなど	0~40%	
授業での取り組み	0~40%	

教科書・教材		
書名	出版社	備考
高校生の地理総合	帝国書院	
新詳高等地図	帝国書院	地図帳

担当者からのアドバイス
地理は「今」を読み解く学問です。今、地球で起きているさまざまな現象には必ず理由があるはずです。「なぜ」そうなったのか。高校1年生の歴史総合で時間を学び、高校2年生の地理総合で空間を学ぶことで世界で起きている事象のメカニズムを「理解」し、それを「説明」できるようになりましょう。世界のあらゆる地域で日々引き起こされている現象に興味をもち、地球の未来を創りだしましょう。身についた地理の教養は、自らの知識を深めるにとどまらず、これからの人生を豊かにするはずです。楽しんで学びましょう！

教科	科目	コース	授業時間	担当者
公民	公共	international	2	岸野

#### 到達目標

- 1 青年期における自己形成をと人間としての在り方生き方について理解と思索を深めるとともに、自己の確立を促し、良識ある公民として必要な能力と態度を育てる。
- 2 民主主義の本質に関する理解を深め、現代における政治、経済、国際関係などについて客観的に理解できるようになる。
- 3 多角的・多面的なものの見方を身につけるとともに、現代の諸課題について主体的に考察し、公正に判断できる力を養い、主権者としての自覚を深め、公共的な空間をつくる人格として必要な能力と態度を身につける。
- 4 大学受験における政治経済、倫理、現代社会などの公民系科目や小論文などにおいて必要とされる基礎的知識、教養を身につける。

#### 授業の進め方・学習方法

- 1 予習は特に必要ない。講義を真剣に聞き、授業内で理解すること。分からないことは自ら調べ、不明点を残さないようにしよう。
  - 2 授業では講義だけでなく、グループ活動や意見を書かせる活動などを行う。受動的な姿勢で授業を聞き流すのではなく、自ら授業に参加すること。
  - 3 インターナショナルコース故に、日本の思想やアジアの思想を中心に扱う予定である。世界で活躍するために幅広い教養や思考力を備えて社会に飛び出してもらいたい意図も
  - 4 中学3年時に日本の政治については学習済みである為、倫理的分野・経済的分野を中心に扱う予定である。
- ※各テーマをより深く学ぶという理由で、シラバスを変更して授業を進めることがあります。

#### 授業スケジュール

1学期	倫理的分野 ・イントロダクション(著名な西洋哲学思想をグループプレゼン) ・日本の思想史(日本の風土と精神文化や日本仏教の展開)
1学期中間試験は実施しない	
1学期	倫理的分野 ・日本の思想史(日本近世の思想～日本近代の思想) ・現代社会の諸課題(生命倫理や福祉、多様化社会について)
1学期期末試験	
2学期	倫理的分野 ・源流思想(中央・東南アジアの思想、古代中国の思想) ・現代思想(行動主義や分析哲学など)
2学期中間試験は実施しない	
2学期	経済的分野 ・日本経済のしくみ(経済思想や企業、経済史)
2学期期末試験	
3学期	経済的分野 ・消費者、労働者問題 ・社会保障制度 ・国際経済の仕組み
学年末試験	

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	授業で学んだことを通じて、レポートを作成し、ディスカッションやプレゼンテーションを行っていく予定である。それらにより平常点の部分を評価する。
レポート	0~20	
小テストなど	0~20	
授業での取り組み	0~20	

#### 教科書・教材

書名	出版社	備考
高等学校 公共	第一学習社	

#### 参考書

書名	著者	出版社	備考
公共ノート		第一学習社	

#### 担当者からのアドバイス

公民は、身の回りの事象が多く、日々、新聞やテレビなどのニュースで取り上げられる内容も多い。そのため、いかに日常生活のなかでアンテナを張っているかが大切である。授業で学習した内容を、まさに『公共』と結び付けて、様々な興味を持ってほしいと考えている。また、将来国際的に様々な場面で活躍する可能性を秘めている事を踏まえ、日本における思想を学習し、さらなる幅広い思考や考えを身につけてもらいたい。定期テストは「授業」を中心に出题するが、教科書や資料集も必要に応じて学習の指示をする。

教科	科目	コース	授業時間	担当者
AP 世界史	AP World H1story	International	3 hours / week	Cairns

到達目標
H2 AP World History: Modern Part II combines with H1 World History: Modern Part I to cover the required content of the College Board AP World History curriculum content. This course will help enable you to develop a greater understanding of the evolution of global processes, contacts and interactions over time, the causes and consequences of changes in international frameworks, and to compare societies in different regions and in different time periods to one another. Students will explore intellectual, cultural, political, diplomatic, social, and economic developments. Emphasis is placed on critical and evaluative thinking skills, essay writing, and analysis of a variety of original documents.

授業の進め方・学習方法
Weekly lectures and readings. Class assignments will require regular readings, primary-source analyses, and essay writing based on the following themes: causation; change and continuity; and comparisons. Students will be introduced to AP exam testing requirements and will practice short answer and essay questions based on the format of the exam and college board rubrics.

授業スケジュール	
1学期	Each unit below follows the College Board unit designations and each contain a wide variety of topics from all regions of the world. Unit 5: Revolutions (1750-1900 CE) Unit 6: Consequences of Industrialization (1750-1900 CE)
1学期中間試験	
1学期	Unit 6: Consequences of Industrialization (1750-1900 CE)
1学期期末試験	
2学期	Unit 7: Global Conflict (1900 - present)
2学期中間試験	
2学期	Unit 8: Cold War and Decolonization (1900 - present)
2学期期末試験	
3学期	Unit 9: Globalization (1900 - present)
学年末試験	

成績評価方法		
種別	割合(%)	評価基準など
定期試験	60%	Exams - 60% Coursework and Assignments - 40%
レポート		
小テストなど		
授業での取り組み		

教科書・教材		
書名	出版社	備考
Traditions and Encounters: A Global Perspective on the Past 7th Ed.	Jerry H Bentley et al	978-0-07-701-099-7

担当者からのアドバイス
Regularly review your handouts and textbook notes. Participate actively in class and ask questions. It would be wise to also purchase an AP prep book for the course for practice exam resources. Be proactive and use online resources to further your knowledge and understanding and practice the AP exam MCQs, SAQS, DBQ, and LEQ.

教科	科目	コース	授業時間	担当者
公民	AP Comparative Government and Politics	International	2	Huang

#### 到達目標

This course is equivalent to a university-level principles of comparative politics course. Students will learn the comparative approach to studying politics while engaging with topics of power, peace, regime types, ideology, political economy, and governance across various contexts. While students are not expected to come with prior knowledge, they are encouraged to consume news and media on salient global issues in their own time.

#### 授業の進め方・学習方法

Weekly lectures, readings, and in-class activities. Lessons are discussion-driven.

#### 授業スケジュール

1学期	<ul style="list-style-type: none"> <li>- Political Systems, Regimes, and Governments</li> <li>- Defining Political Organizations</li> <li>- Democracy vs. Authoritarianism</li> <li>- Sources of Power and Authority</li> <li>- Political Stability</li> </ul>
1学期中間試験	
1学期	<ul style="list-style-type: none"> <li>- Political Institutions</li> <li>- Parliamentary, Presidential, and Semi-Presidential Systems</li> <li>- Executive Systems</li> <li>- Legislative Systems</li> <li>- Judicial Systems</li> </ul>
1学期期末試験	
2学期	<ul style="list-style-type: none"> <li>- Political Culture and Participation</li> <li>- Civil Society</li> <li>- Political Values and Beliefs</li> <li>- Civil Rights and Civil Liberties</li> <li>- Political and Social Cleavages</li> </ul>
2学期中間試験	
2学期	<ul style="list-style-type: none"> <li>- Party and Electoral Systems and Citizen Organizations</li> <li>- Electoral Systems and Rules</li> <li>- Political Party Systems</li> <li>- Role of Political Party Systems</li> <li>- Pluralist and Corporatist Interests</li> </ul>
2学期期末試験	
3学期	<ul style="list-style-type: none"> <li>- Political and Economic Changes and Development</li> <li>- Impact of Global and Technological Forces</li> <li>- Challenges from Globalization</li> <li>- International and Supranational Organizations</li> </ul>
学年末試験	

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	Exams - 60% Homework and Assignments - 30% Participation and Effort - 10%
レポート	15%	
小テストなど	15%	
授業での取り組み	10%	

#### 教科書・教材

書名	出版社	備考
Essentials of Comparative Politics with Cases, 8th AP Edition	W. W. Norton & Company	

#### 担当者からのアドバイス

Please complete any assigned readings and AP Classroom tasks.

教科	科目	コース	授業時間	担当者
公民	AP Microeconomics	international	2	Huang

到達目標
This course is equivalent to a university-level principles of microeconomics course. Students will learn basic microeconomic theories/models (e.g., supply and demand, firm behavior, welfare economics, etc.) and their applications in the real world.

授業の進め方・学習方法
Weekly lectures, readings, and in-class activities.

授業スケジュール	
1学期	Part 1: Basic Economic Concepts Part 2: Supply and Demand
1学期中間試験	
1学期	Part 2: Supply and Demand (cont.) Part 3: Production, Cost, and the Perfect Competition Model
1学期期末試験	
2学期	Part 3: Production, Cost, and the Perfect Competition Model (cont.) Part 4: Imperfect Competition
2学期中間試験	
2学期	Part 4: Imperfect Competition (cont.) Part 5: Factor Markets
2学期期末試験	
3学期	Part 6: Market Failure and the Role of Government
学年末試験	

成績評価方法		
種別	割合(%)	評価基準など
定期試験	60%	Exams - 60%
小テストなど	30%	Homework and Assignments - 30%
授業での取り組み	10%	Participation and Effort - 10%

教科書・教材		
書名	出版社	備考
Principles of Economics, 10th Edition	Cengage	

教科	科目	コース	授業時間	担当者
数学	AP Precalculus (Algebra II)	International	4	Hayashi

### 到達目標

This course is a continuation and evolution of many of the concepts you have studied up to now. Some topics that we will expand upon include: linear and nonlinear systems of equations, simple probability, and problems dealing with lines, parabolas, and various two-dimensional shapes.

### 授業の進め方・学習方法

I will ask you to read the sections before we study them in class - this will make it much easier for you to follow during class. Students are expected to complete all homework that is assigned so you may be able to do well on the quizzes.

### 授業スケジュール

1学期	Review for AP Precalculus exam
1学期中間試験	
1学期	Chapter 9 - Sequences, Series, and Probability - 9.1 Sequences and Series - 9.2 Arithmetic Sequences and Partial Sums - 9.3 Geometric Sequences and Series - 9.4 Mathematical Induction - 9.5 The Binomial Theorem
1学期期末試験	
2学期	Chapter 7 - Systems of Equations and Inequalities - 7.1 Linear and Nonlinear Systems of Equations - 7.2 Two-Variable Linear Systems - 7.3 Multivariable Linear Systems - 7.4 Partial Fractions - 7.5 Systems of Inequalities - 7.6 Linear Programming
2学期中間試験	
2学期	Chapter 8 - Matrices and Determinants - 8.1 Matrices and Systems of Equations - 8.2 Operations with Matrices - 8.3 The Inverse of a Square Matrix - 8.4 The Determinant of a Square Matrix - 8.5 Applications of Matrices and Determinants
2学期期末試験	
3学期	Chapter 10 - Topics in analytic Geometry - 10.1 Lines - 10.2 Introduction to Conics: Parabolas - 10.3 Ellipses - 10.4 Hyperbolas
学年末試験	

### 成績評価方法

種別	割合(%)	評価基準など
定期試験	6000%	Midterm Exam 30%
レポート	2000%	Final Exam 30%
小テストなど	1000%	WebAssign/HW 20%
授業での取り組み	1000%	Classwork 10% Notebook 10%

### 教科書・教材

書名	出版社	備考
Precalculus, Larson 11e	Cengage Learning	

### 担当者からのアドバイス

Welcome to H2 Algebra II. This course is a continuation and evolution of many of the concepts you have studied up to now. Each unit will start at a basic, easy to grasp level and gradually build to a relatively high level by the end of each unit. In this way, much of the first sections of each unit will be a review of what you already know. Some topics that we will expand upon include: statistics, linear and nonlinear systems of equations, simple probability, and problems dealing with lines, parabolas, and various two-dimensional shapes. Another aspect of this course will be an ongoing review of H1 level mathematics in preparation for the SAT exam.

教科	科目	コース	授業時間	担当者
数学	AP Calculus AB	International	4	Korada

#### 到達目標

The aim of the H2 AP Calculus AB course is for you to learn the fundamental techniques of differential and integral calculus, and to then use these techniques to solve real-world mathematics problems. Calculus is an essential tool for those students wishing to pursue a career in the sciences, particularly physics.

#### 授業の進め方・学習方法

The course will consist of demonstrations of key points and examples by the teacher, followed by students working all practice problems from the relevant section in the textbook. Homework will be assigned each class for completion by the next scheduled class.

#### 授業スケジュール

1学期	Chapter 1 - Limits and their Properties - 1.1 A Preview of Calculus - 1.2 Finding Limits Graphically and Numerically - 1.3 Evaluating Limits Analytically - 1.4 Continuity and One-Sided Limits - 1.5 Infinite Limits	Chapter 2 - Differentiation - 2.1 The Derivative and the Tangent Line Problem - 2.2 Basic Differentiation Rules and Rates of Change - 2.3 Product and Quotient Rules and Higher-Order Derivatives - 2.4 The Chain Rule
1学期中間試験		
1学期	Chapter 2 - Differentiation [continued] - 2.5 Implicit Differentiation - 2.6 Related Rates  Chapter 3 - Applications of Differentiation - 3.1 Extrema on an Interval - 3.2 Rolle's Theorem and the Mean Value Theorem - 3.3 Increasing and Decreasing Functions and the First Derivative Test - 3.4 Concavity and the Second Derivative Test - 3.5 Limits at Infinity - 3.6 Summary of Curve Sketching	
1学期期末試験		
2学期	Chapter 3 - Applications of Differentiation [continued] - 3.7 Optimization Problems - 3.8 Newton's Method - 3.9 Differentials  Chapter 4 - Integration - 4.1 Antiderivatives and Indefinite Integration - 4.2 Area - 4.3 Riemann Sums and Definite Integrals - 4.4 The Fundamental Theorem of Calculus - 4.5 Integration by Substitution	
2学期中間試験		
2学期	Chapter 5 - Logarithmic, Exponential, and Transcendental Functions - 5.1 The Natural Logarithmic Function: Differentiation - 5.2 The Natural Logarithmic Function: Integration - 5.3 Inverse Functions - 5.4 Exponential Functions: Differentiation and Integration - 5.5 Bases Other than $e$ and Applications - 5.6 Indeterminate Forms and L'Hôpital's Rule - 5.7 Inverse Trigonometric Functions: Differentiation - 5.8 Inverse Trigonometric Functions: Integration	
2学期期末試験		
3学期	Chapter 6 - Differential Equations - 6.1 Slope Fields and Euler's Method - 6.2 Differential Equations: Growth and Decay - 6.3 Separation of Variables and the Logistic Equation  Chapter 7 - Applications of Integration - 7.1 Area of a Region Between Two Curves - 7.2 Volume: The Disk Method - 7.3 Volume: The Shell Method	
学年末試験		

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	Exam results are 60% of the final grade, while the other 40% will come from homework, classwork (including quizzes and tests), and notebooks. Please reference the class cover letter for more details.
レポート	0 - 40	
小テストなど	0 - 40	
授業での取り組み	0 - 40	

#### 教科書・教材

書名	出版社	備考
Calculus of a Single Variable, Larson 12e	Cengage Learning	

#### 担当者からのアドバイス

Welcome to H2 mathematics! Math will be even more interesting and useful this year. You are expected to start taking more responsibility for your mathematical ability in order to become successful, independent math students. In H2 AP Calculus AB we will study the essentials of differential and integral calculus, so it very important you fully understand everything we study. If you feel you are struggling, please seek help early. My number one recommendation is to study a little bit each day, rather than cramming before the exam. Let's work hard and have a productive year. Let's learn to love math!

教科	科目	コース	授業時間	担当者
理科	AP Chemistry	international	5	Gorniak

### 到達目標

To join this course, students must have already completed the H1 Advanced Chemistry course. If students complete the course and pass the AP exam (receive a grade of 3, 4, or 5 out of 5), students may be eligible for college credit if they enter a university in the United States.

The syllabus below is based on the AP Chemistry Course and Exam Description booklet (linked at the bottom of this page).

### 授業の進め方・学習方法

The class consists of theoretical, practical and laboratory work, done at the level of a university introductory course in chemistry. Those who complete this class will achieve a deeper understanding of chemistry, learn how to use new lab equipment, and be able to design and complete their own experiments in the lab.

### 授業スケジュール

1学期	Unit 1: Atomic Structure and Properties 1.1 Moles and Molar Mass 1.2 Mass Spectroscopy of Elements 1.3 Elemental Composition of Pure Substances 1.4 Composition of Mixtures 1.5 Atomic Structure and Electron Configuration 1.6 Photoelectron Spectroscopy 1.7 Periodic Trends 1.8 Valence Electrons and Ionic Compounds	Unit 2: Molecular and Ionic Compound Structure and Properties 2.1 Types of Chemical Bonds 2.2 Intramolecular Force and Potential Energy 2.3 Structure of Ionic Solids 2.4 Structure of Metals and Alloys 2.5 Lewis Diagrams 2.6 Resonance and Formal Charge 2.7 VSEPR and Bond Hybridization
	1学期中間試験	
1学期	Unit 3: Intermolecular Forces and Properties 3.1 Intermolecular Forces 3.2 Properties of Solids 3.3 Solids, Liquids, and Gases 3.4 Ideal Gas Law 3.5 Kinetic Molecular Theory 3.6 Deviation From Ideal Gas Law 3.7 Solutions and Mixtures 3.8 Representations of Solutions 3.9 Separation of Solutions and Mixtures; Chromatography 3.10 Solubility 3.11 Spectroscopy and the Electromagnetic Spectrum 3.12 Photoelectric Effect 3.13 Beer-Lambert Law	Unit 4: Chemical Reactions 4.1 Introduction for Reactions 4.2 Net ionic equations
	1学期期末試験	
2学期	Unit 4: Chemical Reactions (continued) 4.3 Representations of Reactions 4.4 Physical and Chemical Changes 4.5 Stoichiometry 4.6 Introduction to Titration 4.7 Types of Chemical Reactions 4.8 Introduction to Acid-Base Reactions 4.9 Oxidation-reduction (redox) reactions	Unit 5: Kinetics 5.1 Reaction Rates 5.2 Introduction to Rate Law 5.3 Concentration Changes Over Time 5.4 Elementary Reactions 5.5 Collision Model 5.6 Reaction Energy Profile 5.7 Introduction to Reaction Mechanisms 5.8 Reaction Mechanism and Rate Law 5.9 Steady-State Approximation 5.10 Multistep Reaction Energy Profile 5.11 Catalysis
	2学期中間試験	
2学期	Unit 6: Thermodynamics 6.1 Endothermic and Exothermic Processes 6.2 Energy Diagrams 6.3 Heat Transfer and Thermal Equilibrium 6.4 Heat Capacity and Calorimetry 6.5 Energy of Phase Changes 6.6 Introduction to Enthalpy of Reaction 6.7 Bond Enthalpies 6.8 Enthalpy of Formation 6.9 Hess's Law	Unit 7: Equilibrium 7.1 Introduction to Equilibrium 7.2 Direction of Reversible Reactions 7.3 Reaction Quotient and Equilibrium Constant 7.4 Calculating the Equilibrium Constant 7.5 Magnitude of the Equilibrium Constant 7.6 Properties of the Equilibrium Constant 7.7 Calculating Equilibrium Concentrations 7.8 Representations of Equilibrium 7.9 Introduction to Le Chatelier's Principle 7.10 Reaction Quotient and Le Chatelier's Principle 7.11 Introduction to Solubility Equilibrium 7.12 Common-ion Effect 7.13 pH and Solubility 7.14 Free Energy of Dissolution
	2学期期末試験	
3学期	Unit 8: Acids and Bases 8.1 Introduction to Acids and Bases 8.2 pH and pOH of Strong Acids and Bases 8.3 Weak Acid and Base Equilibria 8.4 Acid-Base Reactions and Buffers 8.5 Acid-Base Titrations 8.6 Molecular Structure of Acids and Bases 8.7 pH and pKa 8.8 Properties of Buffers 8.9 Henderson-Hasselbach Equation 8.10 Buffer Capacity	Unit 9: Applications of Thermodynamics 9.1 Introduction to Entropy 9.2 Absolute Entropy and Entropy Change 9.3 Gibbs Free Energy and Thermodynamic Favorability 9.4 Thermodynamic and Kinetic Control 9.5 Free Energy and Equilibrium 9.6 Coupled Reactions 9.7 Galvanic (Voltaic) and Electrolytic Cells 9.8 Cell Potential and Free Energy 9.9 Cell Potential Under Nonstandard Conditions 9.10 Electrolysis and Faraday's Law
	学年末試験	

### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	Besides the midterm and final exams, much of your grade will be based on homework completion, your lab notebooks, and your in-class assessment.
レポート	0~20	
小テストなど	0~20	
授業での取り組み	0~20	

### 担当者からのアドバイス

- Listen carefully in class.
- Complete your homework on time.
- If you don't understand something, come for help after school or during lunch.
- Constantly review the class content. Do not only review before a test. Do not cram!

教科	科目	コース	授業時間	担当者
理科	Advanced Biology	International	2	Gorniak

#### 到達目標

Students who complete this course will be prepared to take Biology in H3. This class will provide students with a solid foundation in biology by introducing new vocabulary and concepts and by interlocking new ideas with previously studied material. Students will also have the chance to put their learning into practice through discussion, case studies, and projects.

#### 授業の進め方・学習方法

Most classes will consist of a lecture followed by student investigation of learned topics and a homework assignment. Occasionally, individual and small group projects will be assigned. Frequent assessment and class discussion will help reinforce new vocabulary and concepts.

#### 授業スケジュール

1学期	1. Introduction to cells Diversity of organisms Limits to cell size Prokaryotic vs. eukaryotic cells Cell structure Human disorders related to cell organelles	2. Cell membranes & transport Diffusion and osmosis Cell membrane structure Passive transport Active transport Endosymbiotic theory	3. Cell signaling Short distance (paracrine) signaling Long distance (endocrine) signaling Case study: caffeine's effect on the body
1学期中間試験			
1学期	4. Cell energetics Metabolism Enzymes Enzyme inhibitors Photosynthesis Aerobic cellular respiration Anaerobic cellular respiration	5. DNA and protein synthesis Structure of DNA The Central Dogma How proteins are made	
1学期期末試験			
2学期	5. DNA and protein synthesis (continued) Types of DNA mutations Genetic disorders (sickle cell anemia; alcohol flush) DNA replication	6. Mitosis and Meiosis Chromosomes The cell cycle Mitosis Affects of mistakes during mitosis Meiosis How does meiosis create genetic variation? Human chromosomal disorders	7. Mendelian genetics Alleles Dominant vs. recessive alleles Punnet squares Monohybrid cross Dihybrid cross Probability rules
2学期中間試験			
2学期	8. Non-Mendelian genetics Incomplete dominance Codominance Multiple alleles Pleiotropy Lethal Alleles Genetic linkage Sex-linked traits Pedigrees Case study: blue people	9. Evolution Theories of evolution Darwin's ""Survival of the Fittest"" Natural selection Evidence for evolution Taxonomy Binomial nomenclature Building and interpreting cladograms Bioinformatics (BLAST)	
2学期期末試験			
3学期	10. Ecosystems Biomes Nutrient cycling Energy cycling Bioaccumulation & biomagnification  11. Ecological succession & biodiversity Ecological succession How to create biodiversity How to protect biodiversity Japan's endemic species	12. Community ecology Niches Competition How species become invasive Preventing invasive species Symbiosis  13. Population ecology How do scientists study populations? Species distributions Survivorship curves Human population growth (and it's effect on the ecosystem) Carrying capacity Modeling population growth (exponential & logistic growth patterns)  14. Public Service Announcement (PSA) video project	
学年末試験			

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60	
Projects & Quizzes	20	The final class score will be heavily based on the midterm and final exams. The remaining 40% will be based on homework completion, in-class quiz scores, and grades on mini-projects/ presentations.
Homework	10	
Notebook	10	

#### 担当者からのアドバイス

- Listen carefully in class.
- Complete your homework. (Late homework will not receive credit).
- If you don't understand something, come for help after school or during lunch.
- Use the virtual textbook if you would like more exposure to class content."

教科	科目	コース	授業時間	担当者
理科	AP Physics C	International/AG	5	Korada

### 到達目標

The aim of this course will be for students to study in depth the principles of mechanics, and then to take the AP exam in the following May.

### 授業の進め方・学習方法

The course will consist of demonstrations of key points and examples by the teacher, followed by students working all practice problems from the relevant section in the textbook. Homework will be assigned each class for completion by the next scheduled class.

Laboratories might be scheduled each month, in which students write lab reports in their notebooks.

### 授業スケジュール

1学期	Chapter 2 - Motion Along a Straight Line - Displacement, time, and average velocity - Instantaneous velocity - Average and instantaneous acceleration - Motion with constant acceleration - Freely falling bodies - Velocity and position by integration  Chapter 3 - Motion in Two or Three Dimensions - Position and velocity vectors - The acceleration vector - Projectile motion - Motion in a circle - Relative velocity	Chapter 4 - Newton's Laws of Motion - Force and interactions - Newton's 1st law - Newton's 2nd law - Mass and weight - Newton's 3rd law - Free-body diagrams
1学期中間試験		
1学期	Chapter 5 - Applying Newton's Laws - Using Newton's 1st law - Using Newton's 2nd law - Frictional forces - Dynamics of circular motion	Chapter 6 - Work and Kinetic Energy - Work - Kinetic energy and the work-energy theorem - Work and energy with varying forces - Power
1学期期末試験		
2学期	Chapter 7 - Potential Energy and Energy Conservation - Gravitational potential energy - Elastic potential energy - Conservative and non-conservative forces - Forces and potential energy	Chapter 8 - Momentum, Impulse, and Collisions - Momentum and Impulse - Conservation of momentum - Momentum conservation and collisions - Elastic collisions - Center of mass
2学期中間試験		
2学期	Chapter 9 - Rotation of Rigid Bodies - Angular velocity and acceleration - Rotation with constant angular acceleration - Relating linear and angular kinematics - Energy in rotational motion	Chapter 10 - Dynamics of Rotational Motion - Torque - Torque and angular acceleration for a rigid body - Work and power in rotational motion - Angular momentum - Conservation of angular momentum
2学期期末試験		
3学期	Chapter 13 - Gravitation - Newton's law of gravitation - Weight - Gravitational potential energy - The motion of satellites - Kepler's laws and the motion of planets	Chapter 14 - Periodic Motion - Describing oscillation - Simple harmonic motion - Energy in simple harmonic motion - The simple pendulum - The physical pendulum - Damped oscillations
学年末試験		

### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	Exam results are 60% of the final grade. 40% of the grade will come from quiz scores, homework assignments, and participation.
レポート	0-40	
小テストなど	0-40	
授業での取り組み	0-40	

### 教科書・教材

書名	出版社	備考
University Physics with Modern Physics, 15th Edition in SI units, Hugh D.Young and Roger A.Freedman	Pearson	

### 担当者からのアドバイス

Welcome to high school physics! This year we will be using a high-level physics textbook to study Classical mechanics. The textbook comes with lots of online resources, including an ebook, so we will be using computer most of the time. The course will be very challenging and interesting but it has the potential to help you to enter a science university course abroad. As H2 science students, you will be given both more freedom and more responsibility than you are used to. Study hard, have fun, help each other - it will be an exciting year.

教科	科目	コース	授業時間	担当者
英語	English R	International	4	Rowland / Williams

#### 到達目標

A course of study developing the skills of interpreting poetry and novels with particular emphasis on concepts of individuality and social responsibility.

#### 授業の進め方・学習方法

Activities in class will be content-driven and the methods in which the content is studied will be wide-ranging from teacher-centered lecture style classes, to group activities, to individual research and study activities.

Typically the content studied each term will be centered on English in Use (in literature, poetry and informational texts) along with supplementary components of vocabulary building and grammar skill building.

Assessment in the class will consist of both formative and summative assessment; formal and informal. Students' skills of reading, writing, speaking and listening will be assessed each term through written essays, tests, presentations and participation in group discussions and activities.

#### 授業スケジュール

1学期	The Things They Carried by Tim O'Brien Poetry by Ada Limón  1. How do we find meaning or morality in the midst of senseless violence and war? 2. What does it mean to be human in a world where empathy is in question?
1学期中間試験	
1学期	Ice by Anna Kavan Poetry by Sylvia Plath  1. To what extent can we control our own narrative? 2. Making connections between love, desire, and gender roles.
1学期期末試験	
2学期	Hamlet by William Shakespeare Elizabethan poetry  1. How are our sense of self and our relationships mediated by society? 2. Why does literature endure?
2学期中間試験	
2学期	Everything I Never Told You by Celeste Ng Poetry by Tess Gallagher  1. How do our families make us what we are? 2. How can other people shape the meaning of our lives?
2学期期末試験	
3学期	Standing Female Nude by Carol Ann Duffy  1. How do social roles limit or define the self? 2. Whose stories are usually told - and whose are ignored?
学年末試験	

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験	60%	Written examination In-class testing Class participation
レポート		
小テストなど	40%	
授業での取り組み		

#### 教科書・教材

書名	出版社	備考
The Things They Carried by Tim O'Brien	Houghton Mifflin Har	
Ice by Anna Kavan	Peter Owen Publish	
Hamlet by William Shakespeare	Simon & Schuster	
Everything I Never Told You by Celeste Ng	Penguin Press	
Standing Female Nude by Carol Ann Duffy	Anvil Press Poetry	

#### 担当者からのアドバイス

Make sure that you that you keep track of what happens in the books you are studying. Study hard and enjoy your reading!

教科	科目	コース	授業時間	担当者
英語	English W	International	2	Miller / Williams

到達目標
<ul style="list-style-type: none"> <li>• the relationship of the text's creation to its accomplishment, the purpose of academic intellectual prose, its meaning and effect;</li> <li>• how to articulate your analysis of what you read;</li> </ul>

授業の進め方・学習方法
This course is designed to help you write effectively and confidently in college courses, as well as in your professional and personal lives. You should expect to discuss some aspect of writing or the writing process every lesson.

授業スケジュール	
1学期	The Human What does it mean to be human? Language Focus: Figurative Language 1学期中間試験は実施しない
1学期	The Inhuman How can we lose our humanity? Language Focus: Repetition 1学期期末試験は実施しない
2学期	The Posthuman What is the future of humanity? Language Focus: Voice 2学期中間試験は実施しない
2学期	The Nonhuman What can we learn from nonhumans? Language Focus: Irony 2学期期末試験は実施しない
3学期	Recovering Humanity How can we recover our humanity? Language Focus: Symbolism 学年末試験は実施しない

成績評価方法		
種別	割合(%)	評価基準など
定期試験		Homework Essays Group Presentations Language Focus Assignments Participation
レポート	60%	
小テストなど	40%	
授業での取り組み		

担当者からのアドバイス
<p>For all essays, you will receive a rubric. This rubric expresses the goals of the activity and should be used as a guide to focus your essay.</p> <p>Marked essays will have notations to guide you towards fixing problem areas. You are strongly encouraged to review these comments and use them to improve your writing. Occasionally, students will be given the opportunity to resubmit work that they have reviewed. As the tasks become more complex and more demanding, students who fail to self-reflect during the course will suffer academically.</p>

教科	科目	コース	授業時間	担当者
英語	Advanced Literature	International	4	Halloran

#### 到達目標

A course of study developing the critical skills of interpreting literary texts with particular emphasis on various modes of literary theory.

#### 授業の進め方・学習方法

Activities in class will be content driven and the methods in which the content is studied will be wide ranging from teacher-centered lecture-style classes, to group activities, to individual research and study activities.

Assessment in the class will consist of both formative and summative assessment; formal and informal. Students' skills of reading, writing, speaking, and listening will each be assessed each term through written essays, presentations, and participation in group discussions and activities.

#### 授業スケジュール

1学期	The Bell Jar by Sylvia Plath Psychoanalytic Theory	1学期中間試験しない
1学期	Oranges Are Not the Only Fruit by Jeanette Winterson Queer Theory	1学期期末試験しない
2学期	The Crucible by Arthur Miller Marxist Theory	2学期中間試験しない
2学期	The Mountains Sing by by Nguyễn Phan Quế Mai Postcolonial Theory	2学期期末試験しない
3学期	Independent Study Unit - students choose a text from a curated list to read and analyse by themselves. Feminist Theory	学年末試験しない

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験		Assignments
レポート	60%	Essays
小テストなど	40%	Presentations
授業での取り組み		Reflections
		Group work

#### 教科書・教材

書名	出版社	備考

#### 参考書

書名	著者	出版社	備考
Critical Theory Today (third edition)	Lois Tyson	Routledge	

#### 担当者からのアドバイス

Make sure that you that you keep track of what happens in the books you are studying. Study hard and enjoy your reading!

教科	科目	コース	授業時間	担当者
英語	Media Communications II	International	2	Williams

#### 到達目標

This course is designed to help you identify and analyze arguments present in the media and to investigate the various issues that arise from this.

We will look at a variety of media in order to engage you in cross-curricular conversations that explore the complexities of academic and real world issues. Using an inquiry-based approach, you will practice reading and analyzing articles and research studies; viewing music videos, film and TV; reading and analyzing the news; and looking at art works and performances critically. You will learn to synthesize information from multiple sources, develop your own perspectives in written essays, and design and deliver oral and visual presentations. You will be empowered to evaluate, collect and analyze information with accuracy and precision in order to craft and communicate evidence-based arguments.

#### 授業の進め方・学習方法

Due to the long-term nature of many of the projects and assigned readings, effective time management is crucial. You should schedule time to read and write for this course.

#### 授業スケジュール

1学期	The Medium is the Message Marshall McLuhan – Understanding Media: The Extensions of Man How do media necessarily alter the way we view and experience the world?
1学期中間試験は実施しない	
1学期	Ideology Guy Debord – Society of the Spectacle How does the media landscape influence the way we think and act?
1学期期末試験は実施しない	
2学期	Race Ta-Nehisi Coates – Between the World and Me; selections from Stuart Hall & Richard Dyer How does the media construct and represent race?
2学期中間試験は実施しない	
2学期	Political Economy of the Mass Media Michael Parenti – Inventing Reality How do the power relations within media structures influence the narratives we consume?
2学期期末試験は実施しない	
3学期	Deconstruction John Berger – Ways of Seeing How can we identify the ideologies hidden and promoted within images and other visual media?
学年末試験は実施しない	

#### 成績評価方法

種別	割合(%)	評価基準など
定期試験		Homework project (at least one per half-term) - 40% Presentations (at least one per half-term) - 30% Reflections (three per half-term) - 30%
レポート	40	
小テストなど	30	
授業での取り組み	30	

#### 教科書・教材

書名	出版社	備考
Marshall McLuhan – Understanding Media: The Extensions of Man	McGraw-Hill	
Guy Debord – Society of the Spectacle	Buchet/Chastel	
Ta-Nehisi Coates — Between the World and Me	Spiegel & Grau	
Michael Parenti – Inventing Reality	St. Martin's Press	A pdf will be provided.
John Berger – Ways of Seeing	Penguin Books	

#### 担当者からのアドバイス

This course has a lot of reading and requires you to keep a regular record of your reading. Keep up to date and make sure you reflect on your readings regularly. Start assignments early.

教科	科目	コース	授業時間	担当者
英語	Drama Theatre	International	1	Phin

到達目標
This course introduces students to the foundations of naturalistic acting, emphasizing authenticity, emotional truth, and honest connection on stage. Through techniques such as Uta Hagen's object exercises, the Meisner repetition technique, and structured scene work, students will develop strong acting instincts and deepen their understanding of character and behavior. The class culminates in the performance of a one-act play, allowing students to apply their skills in a fully realized production.

授業の進め方・学習方法
This class requires your full presence and attention. Come to class focused and prepared.

授業スケジュール	
1学期	Uta Hagen's "Moment To Moment" Acting Exercise Assignments: Video Submission and Drama Journals 1学期中間試験しない
1学期	The Meisner Repetition Technique & Improvisation Assignments: Final Open Improvisation and Drama Journals 1学期期末試験
2学期	Building A Scene Assignments: Six Steps Character Analysis, Drama Journals, and Script Analysis 2学期中間試験しない
2学期	Performing A Scene Assignments: Final Six Steps/Script, Drama Journal, and Final Scene Video 2学期期末試験
3学期	Perform A One Act Play Assignments: Drama Journals and Final Production 学年末試験

成績評価方法		
種別	割合(%)	評価基準など
定期試験	60%	
レポート	40%	
小テストなど		
授業での取り組み		

教科書・教材		
書名	出版社	備考

参考書			
書名	著者	出版社	備考

担当者からのアドバイス
Commit fully to each moment, stay present with your scene partners, and trust that truthful reactions will always be more compelling than forced performances. Most importantly, be brave and take lots of risks.

教科	科目	コース	授業時間	担当者
英語	Cultural Theory I	AG	2	Rowland

到達目標
A course of study developing an understanding of the ways that we approach the interactions between cultural products and society. Students will learn to think about how they interact with advertisements, movies, literature, news reports and other socio-cultural products and also about their own development in the context of the culture they inhabit.

授業の進め方・学習方法
Activities in class will be centered on extracts from texts by key thinkers in cultural theory. Once the students have established an understanding of a range of approaches to cultural products, they will be given opportunities to apply those ideas to texts and / or images through discussion.
Assessment will take the form of formal writing about text and / or image in the context of the theories approached. Examinations will also apply cultural theory to specific works.

授業スケジュール	
1学期	Being Human Beings Students will focus on the ideas of Martin Heidegger. Points of learning: What do we mean when we use the word "I"? How does the way we think about the self affect our concept of identity?
1学期中間試験	
1学期	Violence Students will encounter the ideas of Hannah Arendt. Points of learning: What forces contribute to cause violence?
1学期期末試験	
2学期	Going Sane Students will encounter the ideas of Michel Foucault, R D Laing, and Gilles Deleuze and Felix Guattari. Points of learning: What do we base our ideas of sanity on? How might we approach a greater understanding of ourselves and of others?
2学期中間試験	
2学期	What is love? Students will encounter the ideas of Sigmund Freud, Roland Barthes, Alain Badiou and Eva Illouz. Point of learning: What do we mean when we use the word "love"? How can we become more self-aware in our relationships?
2学期期末試験	
3学期	Unflattening Students will encounter the ideas of Nick Sousanis in his book Unflattening. Points of learning: How can we learn to see the world in a different way? How can we live three-dimensional lives?
学年末試験	

成績評価方法		
種別	割合(%)	評価基準など
定期試験	60	Written examination Research essay Class participation
レポート		
小テストなど	35	
授業での取り組み	5	

担当者からのアドバイス
You are not required to purchase any books for this class. Make sure that you are clear about the ideas that are presented. Be prepared to express your own ideas by comparison with those you study. Study hard and enjoy thinking!