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(AG)

教科	科目	コース	授業時間	担当者
国語	国語表現	AG	3	沖野

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	基礎トレーニング「命を食べる」「大学での学問は将来役に立つか」の2題を読み、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	基礎トレーニング「死の文化はやせたか」「結婚しない人たち」の2題を読み、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	基礎トレーニング「軍事国家と福祉国家」「日本的感性は時代を超えるか」の2題を読み、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	0	毎週300字から800字の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	60	
小テストなど	20	
授業での取り組み	20	

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	

参考書			
書名	著者	出版社	備考

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着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	AG	1	釣田

到達目標
地球や地球上の地域についてのイメージをつかみ、地理的思考力の土台を構築する。

授業の進め方・学習方法
プリントや教科書を用いて授業を行う。1学期に地球の姿や地球の全体像を捉え、2学期には地球上の各諸地域について理解を深めていきます。3学期には、1学期と2学期で学習した地球の地域にまつわるさまざまな問題について考察し解決策を探っていきます。

授業スケジュール	
1学期	第1部 世界の諸地域の姿と地球的課題第1章 地球儀や地図からとらえる現代世界 1節 地球上の位置と国家 1、地上の現象と地球上の位置 2、経度の違いと時差 3、球面と平面の世界 4、国家の領域と国境 第2章 人間生活を取り巻く環境 1節 人々の生活と地形 1、世界の大地形と人々の生活 2、山地・平地の地形と人々の生活 3、海岸の地形と人々の生活 4、氷河地形・カルスト地形・乾燥地形と人々の生活
1学期期末試験	
2学期	第3章 世界の諸地域の生活・文化 1節 中国の生活・文化 2節 韓国の生活・文化 3節 東南アジアの生活・文化 4節 南アジアの生活・文化 5節 中央アジア・西アジア・北アフリカの生活・文化 6節 サハラ以南のアフリカの生活・文化7節 ヨーロッパの生活・文化 8節 ロシアの生活・文化 9節 アングロアメリカの生活・文化 10節 ラテンアメリカの生活・文化 11節 オーストラリアの生活・文化
2学期期末試験	
3学期	第4章 地球的課題と私たち 1節 複雑にからみ合う地球的課題 2節 世界の環境問題 3節 世界の資源・エネルギー問題
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		定期テストを中心に、授業内実施の小テスト、レポート、授業への取り組み状況を平常点として加味して評価する。
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
高校生の地理総合	帝国書院	

参考書			
書名	著者	出版社	備考

担当者からのアドバイス
地地理は「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。

教科	科目	コース	授業時間	担当者
公民	公共	AG	2	渡邊

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4、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　定期考査では、単純な知識問題だけでなく、思考力、記述力を養う問題を出題する。単なる暗記にとどまらず、自分で内容を語れるようにしていこう。定期試験では時事問題も出題する。日頃からニュースに関心を持つようにしよう。
4　授業や長期休暇で課す課題やレポートは、自分自身の考えや意見を表す機会となるため、しっかりと取り組むこと。
5　授業では、定期的にディベートを行う予定である。その準備と、4試合内容、および観戦内容は平常点で評価する。

授業スケジュール

1学期	第1編　公共の扉 第1章　公共的な空間をつくる私たち 第2章　公共的な空間における人間としての在り方生き方 第3章　公共的な空間における基本的原理
1学期中間試験	
1学期	第2編　自立した主体としてよりよい社会の形成に参画する私たち 第1章　法的な主体となる私たち 1　法や規範の意義と役割 2　契約と消費者の権利 3　司法参加の意義 第2章　政治的な主体となる私たち 4　政治参加と公正な世論の形成
1学期期末試験	
2学期	5　国際社会と国家主権 6　日本の安全保障と防衛 7　国際社会の変化と日本の役割
2学期中間試験	
2学期	第2編　経済的な主体となる私たち 8　雇用と労働問題 9　社旗の変化と職業観 10　市場経済の機能と限界 11　金融のはたらき 12　財政の役割と社会保障
2学期期末試験	
3学期	13　経済のグローバル化 1　国際分業と国際貿易体制 2　国際収支と為替相場 3　経済のグローバル化と日本 4　地域的経済統合の動き 5　国際社会における貧困や格差 6　地球環境問題 7　資源エネルギー問題 8　国際社会のこれから
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	80	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	公共710

参考書

書名	著者	出版社	備考
用語集　現代社＋政治経済　23年版		清水書院	

担当者からのアドバイス

公共は、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。関心を高めながら、受験レベルとしても使える深い知識を身につけてもらいたい。通常の授業を興味・関心を待って、積極的に参加することが最も重要。定期テストは「授業」を中心に出題するが、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
地理歴史	History	AG	3 hours / week	Cairns

到達目標

This course is designed to introduce students to major historical events, persons, and ideas from the Industrial Revolution to the present. Students will learn about the causes and consequences of imperialism in the nineteenth century, World War I and II, decolonization, the Cold war, civil rights movements, and how these key events continue to influence geopolitics and conflicts today. Students will analyze and interpret historical sources and develop critical thinking skills to better understand history and our world.

授業の進め方・学習方法

Weekly lecture and readings. Each term will have regular homework assignments, reports, and/or presentations. Google Classroom will be used for materials and assignments.

授業スケジュール

1学期	Introduction to Historiography Sociological Perspectives on History Imperialism and the Scramble For Africa
1学期中間試験	
1学期	Imperialism in China and India World War I
1学期期末試験	
2学期	The Russian Revolution The Inter-War Period Rise of Totalitarian Regimes
2学期中間試験	
2学期	World War II The Cold War Begins
2学期期末試験	
3学期	Decolonization The Cold War in Asia, the Middle East, and Latin America Civil Rights Movements The Collapse of the Soviet Union
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	20	
小テストなど	10	
授業での取り組み	10	

教科書・教材

書名	出版社	備考
Traditions and Encounters: A Global Perspective	Jerry H Bentley et al	978-0-07-701099-7

参考書

書名	著者	出版社	備考

担当者からのアドバイス

In order to hold fruitful and engaging discussions, students will be expected to complete all the textbook reading set beforehand.
We will both share information and learn from one another. It will - I am sure - be a stimulating experience! I look forward to covering an exciting period of global history with you this year!

教科	科目	コース	授業時間	担当者
公民	International Relations	AG	2	Warzala

到達目標
Students will receive the necessary information to prepare them for university-level international relations courses, including global trade, international law, and supranational institutions

授業の進め方・学習方法
Lectures, Essay-writing, Notes

授業スケジュール	
1学期	Background International Relations Theory - Change and Continuity / Contending Perspectives
1学期中間試験	
1学期	War - Power Politics / War and Democracy
1学期期末試験	
2学期	Economics - Free Trade / The IMF / Globalization
2学期中間試験	
2学期	Law - International Law / The United Nations and Humanitarian Intervention
2学期期末試験	
3学期	Evolving Issues - Nuclear Proliferation / Climate Change / International Terrorism
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	

教科書・教材		
書名	出版社	備考
International Relations - Perspectives, Controversies, and Readings - Shimko	5th	

参考書			
書名	著者	出版社	備考

担当者からのアドバイス
-Please communicate with me often. I am happy to help if you any questions! -Please focus on the note-taking for this class. The notes will be the key to getting a good score on the exams.

教科	科目	コース	授業時間	担当者
公民	Microeconomics	AG	2	Warzala

到達目標
Students will prepare to take the Microeconomics AP Exam. This will involve learning economic concepts such as Market Forces, Supply and Demand, Externalities, and the Factors of Labor Markets

授業の進め方・学習方法
Lectures, Notes, Graphing and Math Assignments

授業スケジュール	
1学期	Introduction / How Markets Work
1学期中間試験	
1学期	Markets and Welfare
1学期期末試験	
2学期	Economics of the Public Sector
2学期中間試験	
2学期	Firm Behavior
2学期期末試験	
3学期	Economics of Labor Markets
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	
Notes	30	
小テストなど	10	

教科書・教材		
書名	出版社	備考
Principles of Economics - Mankiw	10th	

参考書			
書名	著者	出版社	備考

担当者からのアドバイス
-Please communicate with me often. I am happy to help if you any questions! -Please focus on the note-taking for this class. The notes will be the key to getting a good score on the exams.

教科	科目	コース	授業時間	担当者
数学	Algebra II	AG	4hrs/week	Korada

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	Chapter 9 - Sequences, Series, and Probability - Sequences and Series - Arithmetic Sequences and Partial Sums - Geometric Sequences and Series
1学期中間試験	
1学期	Chapter 9 - Sequences, Series, and Probability - Mathematical Induction - The Binomial Theorem
1学期期末試験	
2学期	Chapter 10 - Topics in analytic Geometry - Lines - Introduction to Conics: Parabolas - Ellipses - Hyperbolas
2学期中間試験	
2学期	Chapter 7 - Systems of Equations and Inequalities - Linear and Nonlinear Systems of Equations - Two-Variable Linear Systems - Multivariable Linear Systems- Partial Fractions - Systems of Inequalities
2学期期末試験	
3学期	Chapter 8 - Matrices and Determinants - Matrices and Systems of Equations - Operations with Matrices - The Inverse of a Square Matrix - The Determinant of a Square Matrix - Applications of Matrices and Determinants
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	Midterm Exam 30% Final Exam 30% WebAssign/HW 20% Classwork 10% Notebook 10%
レポート	20	
小テストなど	10	
授業での取り組み	10	

教科書・教材

書名	出版社	備考
Precalculus, 10th Edition, Larson	Cengage Learning	

参考書

書名	著者	出版社	備考

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	Calculus AB	AG	4	Guennigsman

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. A 50-minute term test will be conducted each term to help students prepare for examinations.

授業スケジュール

1学期	Chapter 1 - Limits and their Properties -Preview of Calculus -Finding Limits Graphically and Numerically -Evaluating Limits Analytically -Continuity and One-Sided Limits -Infinite Limits Chapter 2 - Differentiation -The Derivative and the Tangent Line Problem -Basic Differentiation Rules and Rates of Change -Product and Quotient Rules and Higher-Order Derivatives -The Chain Rule -Implicit Differentiation -Related Rates
1学期中間試験	
1学期	Chapter 3 - Applications of Differentiation -Extrema on an Interval -Rolle's Theorem and the Mean Value Theorem -Increasing and Decreasing Functions and the First Derivative Test -Concavity and the Second Derivative Test -Limits at Infinity -Summary of Curve Sketching
1学期期末試験	
2学期	Chapter 3 - Applications of Differentiation -Optimization Problems -Newton's Method -Differentials Chapter 4 - Integration -Antiderivatives and Indefinite Integration -The Fundamental Theorem of Calculus -Integration by Substitution -Numerical Integration
2学期中間試験	
2学期	Chapter 5 - Logarithmic, Exponential, and Transcendental Functions -The Natural Logarithmic Function: Differentiation -The Natural Logarithmic Function: Integration -Inverse Functions -Exponential Functions: Differentiation and Integration -Bases Other than e and Applications -Inverse Trigonometric Functions: Differentiation -Inverse Trigonometric Functions: Integration
2学期期末試験	
3学期	Chapter 6 - Differential Equations -Slope Fields and Euler's Method -Differential Equations: Growth and Decay -Separation of Variables and the Logistic Equation Chapter 7 - Applications of Integration -Area of a Region Between Two Curves -Volume: The Disk 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	

参考書

書名	著者	出版社	備考

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	Advanced Chemistry	AG	5 hrs/week	Tsang

到達目標

This course follows the AP chemistry curriculum prescribed by College Board. To join this course, students must have already completed the H1 Introductory 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.

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
1学期期末試験	
2学期	Unit 4: Chemical Reactions 4.1 Introduction for reactions 4.2 Net ionic equations 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 (20%), your notebooks (10%), and in-class assessment (10%).
レポート (homework)	20	
小テストなど	10	
授業での取り組み	10	

教科書・教材

書名	出版社	備考
Chemistry	Cengage	Zumdahl, Zumdahl, DeCoste・9781305957404

参考書

書名	著者	出版社	備考
AP Chemistry Course and Exam Description Booklet			https://apcentral.collegeboard.org/pdf/ap-chemistry-course-and-exam-description.pdf

担当者からのアドバイス

This is a heavy workload course. To keep up with the contents, you need to do the following:

・Listen carefully in class.
・Ask questions right away.
・Submit your homework ON TIME.
・Constantly review the class content. Do not only review before a test. Do not cram!
・Read your textbook or watch Khan Academy videos if you need more exposure to class content.
・Be organized and mindful of timelines.

教科	科目	コース	授業時間	担当者
理科	Introductory Biology	AG	2 hrs/week	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 How do drugs work? What happens in the brain to cause drug addiction?
1学期中間試験	
1学期	4. Cell energetics Metabolism Enzymes Enzyme inhibitors Photosynthesis Aerobic cellular respiration Anaerobic cellular respiration How nihonshu is made 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	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.
レポート	10	
小テストなど	20	
授業での取り組み	10	

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

・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: Mechanics	高Ⅱ年3組 AG	5hrs/week	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 will be scheduled each month, in which students must 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	

参考書

書名	著者	出版社	備考

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 Reading	AG	4hrs/week	Rowland

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	Slaughterhouse-Five by Kurt Vonnegut 1. Reality and perception 2. Consequences of dehumanization Poetry by Adrienne Rich
1学期中間試験	
1学期	The Things They Carried by Tim O'Brien 1/ Trauma and narrative 2/ Legacies of conflict Poetry by Ada Limón
1学期期末試験	
2学期	Macbeth by William Shakespeare 1. Conventions of drama 2. Power and greed Poetry by Dylan Thomas
2学期中間試験	
2学期	Waiting for the Barbarians by J M Coetzee 1. Truth and justice 2. Being human Poetry by Anne Sexton
2学期期末試験	
3学期	The Pillowman by Martin McDonagh 1. Metatextuality 2. The violence of language Poetry by Sylvia Plath
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		
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
Slaughterhouse-5 by Kurt Vonnegut		
The Things They Carried by Tim O'Brien		
Macbeth by William Shakespeare		
Waiting for the Barbarians by J M Coetzee		
The Pillowman by Martin McDonagh		

参考書			
書名	著者	出版社	備考

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 Writing	AG	2 hrs/week	Syed

到達目標

This course examines rhetoric as the art of finding and analyzing all the choices involving language that a writer might make in a situation so that the text becomes meaningful, purposeful, and effective for readers. Through adaptation and emulation, we will seek to improve our own language. You will become mature and sophisticated consumers and creators of a variety of texts. By the end of the course, you will understand:

• what you read: the main point or thesis, the occasion or context, the author's motivation for writing, the tone and style;

• how a text is created to develop meaning and purpose including genre, organization, paragraphing, syntax;

• the relationship of the text's creation to its accomplishment, the purpose of academic intellectual prose, its meaning and effect;

• how to articulate your analysis of what you read;

• how to create, develop and support an argument, acknowledging the complexities and nuances of important issues;

• how to enter into a conversation with sources and develop a thesis and argument or exposition by synthesizing these conversations into your own writing;

• how to analyze and incorporate your analysis of visual texts into your writing.

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.

Our study of writing will include works from a wide range of authors, genres and styles. You will gain expertise in critically evaluating various points of view and how they relate thematically to the world in which we live.

Participation is a key component to success in this class. You should expect to contribute fully to class and group discussions.

授業スケジュール

1学期	True Self / False Self How do you know who your true self is? Language Focus: Structure and Organisation
1学期中間試験は実施しない	
1学期	Trauma and Narrative How does trauma affect our sense of time and self? Language Focus: Audience and Appeal
1学期末試験は実施しない	
2学期	Greed and Human Nature What is the true nature of human beings? Language Focus: Rhetoric
2学期中間試験は実施しない	
2学期	The Posthuman How can you prepare for a changed world? Language Focus: Metaphor
2学期末試験は実施しない	
3学期	Love and Belonging How does feeling a sense of belonging affect our humanity? Language Focus: Pathos
3学期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		

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

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.

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.

We will be doing lots of writing, reading, and discussion. Please come to class prepared and willing to participate.

教科	科目	コース	授業時間	担当者
英語	Drama Theatre	AG	1 hr/week	Syed

到達目標

This course will introduce you to some practical drama strategies that you can apply to your reading of novels, plays and other texts in order to access and explore in more depth aspects such as characters, themes, ideas and subtext. It will also provide you with knowledge and skills you can use to enhance a critical appreciation of performance media, and methods to improve your awareness of body language, posture, gesture and voice in order to help you to make speeches, deliver presentations and perform successfully in interviews.

授業の進め方・学習方法

Typically the content studied each term will be centered on English in use in plays and drama texts. It will also include aspects of acting, directing and design in the theatre, as well as the history and selected theories of drama and theatre.

Assessment in the class will consist of both formative and summative assessment, and formal and informal tasks, including class participation, the completion of a journal, a final performance, one homework essay and a final exam.

授業スケジュール

1学期	1.1 - Working Together Aspects of Performance 1: Creating an Ensemble What is theatre? Why are we trying to be better actors? Why is it important to work as an ensemble?
1学期中間試験	
1学期	1.2 - Using the Space Aspects of Performance 2: Movement and Space Why is exploring pantomime important to becoming a great actor? How does an actor communicate with an audience?
1学期期末試験	
2学期	2.1 - Getting into Character Aspects of Performance 3: Performer and Audience What is the relationship between performer, character and audience? How does drama affect our understanding of other human beings?
2学期中間試験	
2学期	2.2 - Using Your Voice Aspects of Performance 4: Importance of Voice Why is voice such an essential component of acting and performance? How can we train and develop our voices to become more effective?
2学期期末試験	
3学期	3 - Staging a Performance Aspects of Performance 5: Practical Solutions What is the relationship between a director and an actor? How can staging affect our understanding of human relationships?
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	Final exam (60%) Class contribution (20%) Final performance (20%)
レポート		
小テストなど	20	
授業での取り組み	20	

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

Stay focused in class and listen carefully to instructions. Keep in mind the purpose of what you are doing. If you have any questions or concerns, you can come and talk to me at any time. I hope that you will enjoy your studies!

教科	科目	コース	授業時間	担当者
英語	Advanced Literature	AG	4 hours a week	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. The students will also study reading and writing skills to support preparation for examinations.

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 lecturestyle 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 each 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	Homegoing by Yaa Gyasi Postcolonial Criticism
1学期中間試験	
1学期	The Crucible by Arthur Miller Marxist Criticism
1学期期末試験	
2学期	Giovanni's Room by James Baldwin Queer Theory
2学期中間試験	
2学期	Do Androids Dream of Electric Sheep? by Philip K Dick Psychoanalytic Theory
2学期期末試験	
3学期	Individual Study Unit Feminist Theory
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	Homework Essays
レポート		Homework Quizzes
小テストなど	40	In-class testing
授業での取り組み		

教科書・教材

書名	出版社	備考
Homegoing		
The Crucible		
Giovanni's Room		
Do Androids Dream of Electric Sheep?		
One Additional Text		

参考書

書名	著者	出版社	備考

担当者からのアドバイス

This course will require significant participation during each lesson and dedicated study time outside of class. The material is not easy, but I am confident in your ability to rise to the heights that you are no doubt capable of. I hope that you will enjoy your studies this year!

教科	科目	コース	授業時間	担当者
英語	Media Communications II	AG	2 hrs/week	Syed

到達目標

This course is designed to help you identify and analyse arguments present in 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 framework, 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. 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 collect and analyse 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 daily 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 media necessarily alter the way we view and experience the world.
1学期中間試験	
1学期	Ideology Guy Debord – Society of the Spectacle How the media landscape influences the way we think and act.
1学期末試験	
2学期	Race Ta-Nehisi Coates – Between the World and Me; selections from Stuart Hall & Richard Dyer How the media constructs and represents race.
2学期中間試験	
2学期	Political Economy of the Mass Media Edward S. Herman & Noam Chomsky – Manufacturing Consent How the power relations within media structures influence the narratives we consume.
2学期末試験	
3学期	Deconstruction John Berger – Ways of Seeing How to identify the ideologies hidden and promoted within visual images.
3学期末試験	

成績評価方法

種別	割合(%)	評価基準など
定期試験		Homework Essays (one per half-term) Presentations (one per half-term) Reflections (three per half-term) Participation
レポート	60	
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

参考書

書名	著者	出版社	備考

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	Cultural Theory	AG	2hrs/week	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 Social Students will encounter the ideas of Michel Foucault, Guy Debord, Michel de Certeau, Herbert Marcuse. Points of learning: In what ways are we socialised by institutions into particular ways of thinking and relating? How can we regain our agency and learn to live creatively to regain spaces as our own?
1学期中間試験	
1学期	Being Human Beings Students will encounter the ideas of Martin Heidegger, Gilles Deleuze, Jacques Derrida, Adriana Cavarero. 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学期期末試験	
2学期	Violence Students will encounter the ideas of Hannah Arendt, Slavoj Žižek, Elaine Scarry, Judith Butler. Points of learning: What forces contribute to cause violence? Can violent resistance ever be justified?
2学期中間試験	
2学期	Community Students will encounter the ideas of Georges Bataille, Maurice Blanchot, Giorgio Agamben, Jacques Derrida. Points of learning: How can we approach the idea of living as a community? How can we find an effective way of expressing ourselves in society?
2学期期末試験	
3学期	
3学期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	60	Written examination Research essay Class participation
レポート	35	
小テストなど		
授業での取り組み	5	

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
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!