令和７年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	国語表現IIA	1	620500	前学期	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	黒田　譜美	白山麓C： 101.201		水曜　15:00-16:00

授 業 科 目 の 学 習 教 育 目 標

キーワード		学習教育目標
1	書く	文章やデータなどさまざまな情報を適切に判断し取捨選択する力や、筋道立てて考え、効果的に表現する力を伸ばす。課題文型・データ型小論文が書けるようになるために、課題文やデータを正確に読み取り、要約する力を鍛える。また、適切な根拠や具体例を示しながら自分の意見を展開する方法を学び、プレゼンテーション、ディベートなど話す技術へ応用できるようにする。さらに、聞き手の同意や共感を得るために、音声表現だけでなく、資料やスライド、身ぶりや表情といった非音声表現も積極的に工夫する実践的な態度を養う。
2	話す	
3	聴く	
4	読む	
5	小論文	

授業の概要および学習上の助言

■授業概要

この授業ではアクティブラーニングの一環として、グループワーク・ディスカッションを行う。
国語表現IA、IBの続きとして、下記の範囲を学習する。

小論文Ⅱ
プレゼンテーションの方法
話し合いの方法

■学習上の助言

・課題は必ず提出すること。
・毎時の小テストは地道に取り組むこと。
・辞書は必ず用意すること。また、辞書を常に引くように心がけ、知らない言葉を確認し、着実に身につけること。
・さまざまなジャンルの本を読むよう心がけること。

【教科書および参考書・リザーブドブック】

教科書：『国語表現』大修館書店 ISBN：978-4-469-62396-3、『国語の常識 plus』明治書院 ISBN：978-4-469-625-23405-7
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

国語表現IA、IBを履修し、日本語の読解力や文章表現力を身につけている。

No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標
①	e,f	常用漢字の読み書きの習得に積極的に努める。
②	e,f	課題文を正確に読み取り、的確に要約することができる。
③	e,f	グラフや図表など視覚資料から傾向・特徴を読み取り、論点を把握することができる。
④	e,f	適切な根拠や具体例を示しながら自分の意見を展開することができる。
⑤	e,f	読み手からの助言を踏まえ、自分の文章の特長や課題を捉え直すことができる。
⑥	e,f	音声表現・非音声表現を工夫して、効果的なプレゼンテーションを行うことができる。

達 成 度 評 価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	30	50	20	0	0	0	100
総合力指標	知識を取り込む力	0	30	0	0	0	0	0	30
	思考・推論・創造する力	0	0	30	0	0	0	0	30
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	20	20	0	0	0	40
	学習に取組む姿勢・意欲	0	0	0	0	0	0	0	0

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①	レ	漢字小テストは6回実施し、計30点とする。
	②		
	③		
	④		
	⑤		
	⑥		
レポート	①		レポートは3種類課し、計50点とする。 ①要約：10点 ②課題文型小論文：30点 ③データ型小論文：10点
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥		
成果発表 （口頭・実技）	①		成果発表（口頭・実技）は2種類課し、各10点計20点とする。 ①プレゼンテーション ②話し合い（フィッシュボウル）
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥	レ	
作品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①		
	②		
	③		
	④		
	⑤		
	⑥		
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
漢字を常に正確に読み書きできる。 文章の論点や主張を正確に把握して、常に的確に要約できる。 グラフや図表など視覚資料から、論点を的確に把握することができる。 適切な根拠や具体例を示しながら自分の意見を展開することができる。 推敲の意義を理解し、習慣的に推敲を重ねることができる。 音声表現・非音声表現を工夫して、効果的なプレゼンテーションができる。	漢字の習得に積極的に努めることができる。 文章の論点や主張を読み取り、要約できる。 グラフや図表など視覚資料から、論点を把握することができる。 根拠や具体例を示しながら自分の意見を展開することができる。 読み手からの助言を踏まえ、推敲することができる。 音声表現・非音声表現を工夫して、プレゼンテーションができる。

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	■科目ガイダンス ・科目の目的、内容、評価方法について理解する。 話し合いの方法 ・フィッシュボウルのルールを理解する。 ・話し合いたいテーマを出し合う。	講義と質疑 プリント配布	復習：配布プリントを再読し、学習教育目標や行動目標を確認する。	30
2 ／	話し合いの方法 ・「拡散」と「収束」を意識して話し合いを進める。 ・観察班シートに気づいたこと・考えたことを書く。 ・相互評価を行う。	講義と質疑 プリント配布 グループワーク	予習：テーマについて、自分の立場を決め、根拠となる情報を整理する。 復習： 相互評価を見直す。	30
3 ／	話し合いの方法 ・建設的な話し合いに必要なことについて整理する。 小論文 ・小論文の目的や書式について理解する。	実技②話し合い プリント配布 グループワーク アンケート実施	予習：課題型小論文について調べる。 復習：教科書・ノートを見直す。	30
4 ／	小論文 ・要約の方法について理解する。	小テスト① レポート①提出 講義と質疑 プリント配布	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	30
5 ／	小論文 ・接続詞について復習する。	小テスト② 小テスト①返却 レポート①返却 講義と質疑 プリント配布	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	30
6 ／	小論文 ・課題文型小論文に取り組む。 ・論点を把握し、課題文を要約する。 ・論点に対して賛成か反対か決める。	小テスト③ 小テスト②返却 講義と質疑 プリント配布 グループワーク	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	30
7 ／	小論文 ・自分の意見の根拠を挙げる。 ・反論を想定して展開を工夫する。 ・構成ノートを書く。	小テスト④ 小テスト③返却 レポート②仮提出 講義と質疑 プリント配布	予習：構成ノートを作成する。 復習：教科書・ノートを見直す。	30
8 ／	小論文 ・添削内容を確認し、構成や展開を修正する。 ・清書する。	小テスト④返却 レポート②返却・再提出 講義と質疑 プリント配布	予習：レポート②（小論文）を推敲する。 復習：レポート②（小論文）を推敲する。	30
9 ／	小論文 ・他学生の小論文を読み、相互評価する。	レポート②返却 講義と質疑 プリント配布	予習：レポート②を仕上げる。 復習：相互評価を見直す。	
10 ／	小論文 ・データを読み取り、論点を把握する。 ・構成ノートを書く。	レポート③仮提出 講義と質疑 プリント配布	予習：データ型小論文について調べる。 復習：教科書・ノートを見直す。	

授業明細表

ＣＬＩＰ学習プロセスについて

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※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	小論文 ・添削内容を確認し、構成や展開を修正する。 ・清書する。	レポート③返却・再提出 講義と質疑 プリント配布	予習：構成ノートを仕上げる。 復習：レポート③（小論文）を仕上げる。	30
12 ／	小論文 ・他学生の小論文を読み、相互評価する。	レポート③返却 講義と質疑 プリント配布	予習：教科書・ノートを見直す。 復習：相互評価を見直す。	30
13 ／	プレゼンテーションの方法 ・プレゼンテーションの表現要素および表現技術について理解する。 ・プレゼンテーションの構成について理解する。	小テスト⑤ 講義と質疑 プリント配布 グループワーク	予習：プレゼンテーションについて調べる。 復習：教科書・ノートを見直す。	30
14 ／	プレゼンテーションの方法 ・身振りや表情、声量の大小や声の高低・緩急を工夫しながら、発表練習をする。	小テスト⑥ 小テスト⑤返却 講義と質疑 プリント配布 グループワーク	予習：構成ノートを作成する。 復習：スライドを仕上げる。	30
15 ／	プレゼンテーションの方法 ・プレゼンテーションを行い、質疑応答する。 ・相互評価する。	実技①プレゼンテーション 小テスト⑥返却 プリント配布 グループワーク	予習：発表の練習をする。 復習：相互評価を見直す。	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Expression II A	1	620600	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TAYLOR, James	Hakusanroku C: 101.201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Writing	Students will come to prepared to speak and write in English. To progress in the class students will complete and submit tasks on time. Peer review and feedback are important parts of the writing process, so students will use every opportunity to communicate with classmates, respect others' ideas and opinions. It is crucial to ask classmates or the teacher for help when necessary.
2	Essays	
3	Genres	
4	Journal	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer group discussion and group work as types of active learning. Students will consider what they learnt in English Expression I A and I B and will expand on their knowledge by continuing to learn about and practice the writing process, including planning and peer review, to write essays. Through the writing process and targeted language activities, students will gain the skills to describe their ideas logically in written English. Short writing tasks will be completed on a weekly basis for homework to give students further opportunities to practice expressing themselves. Students will learn and practice the skills and language to achieve high scores on academic writing tasks.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate in written English.
Desire to improve writing skills through responding appropriately to receiving feedback and constructive criticism.
Work ethic to revise, edit, and rewrite drafts of an essay.

No.	Program Objectives	Target Abilities for Students (9pt)
①	b, f	Students will be able to develop sentences and paragraphs in response to issues and themes raised in class.
②	e	Students will be able to draw on cultural knowledge and personal experience to express themselves.
③	d, f, g	Students will be able to use planning techniques and peer review to develop their and others' work.
④	e, f	Students will be able to achieve clarity of thought by identifying the features of various genres of writing.
⑤	f, g	Students will be able to use rhetorical appeals to express thoughts and opinions and to persuade others.
⑥	e, f, i	Students will be able to investigate and discuss authors' intentions and meanings in various examples.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	80	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	20	0	5	0	0	25
	Ability to think, reason and create	0	0	20	0	5	0	0	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	20	0	5	0	0	25
	Attitude and motivation for learning	0	0	20	0	5	0	0	25

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✓	Students will write 2 different genres of essay, which will be graded according on Process (25), Task Achievement (25), Cohesion (25), Coherence (25). Essays will be submitted online. Feedback will be given online before the following lesson. Students will complete Academic Writing Task 1 and Task 2 at least twice each. These will be graded on Task Achievement (9), Coherence & Cohesion (9), Lexical Resource (9), Grammar (9). Feedback will be given online and in writing at the start of the following lesson.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	Students will write a journal of at least 200 words on an assigned topic for homework after each of the first 14 lessons. The journals will be submitted online. Students will receive credit for journals of sufficient length submitted on time. Each journal is worth 10 points. Feedback will be given online before the following lesson.
	②	✓	
	③		
	④		
	⑤	✓	
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students improve their writing drastically, go through the writing process, respond appropriately to feedback, and produce paragraphs of various genres that are logically structured, well argued, and supported by evidence from reliable sources. Students complete and submit all work on time. Students achieve high scores on academic writing tasks.	Students improve their writing to some extent, go through the writing process, respond to some feedback, and produce paragraphs of various genres that are for the most part logically structured, well argued, and supported by evidence from reliable sources. Students achieve reasonable scores on academic writing tasks.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction: Students will read the syllabus. Academic Writing Task 1: Students will review the features and structures of effective Task 1 answers.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
2 /	Academic Writing Task 1: Students will attempt Task 1 under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
3 /	Academic Writing Task 2: Students will review the features and structures of effective Task 2 answers.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
4 /	Academic Writing Task 2: Students will attempt Task 2 under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
5 /	Process Essay 1: Students will review the features and structures of a process paragraph, review their own paragraph, then plan and write a process essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
6 /	Process Essay 2: Students will continue writing their process essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
7 /	Process Essay 3: Students will continue writing their process essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
8 /	Process Essay 4: Students will complete and submit their process essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
9 /	Academic Writing Tasks: Students will review Tasks 1 and 2, and will attempt the tasks under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
10 /	Comparison Essay 1: Students will review the features and structures of a comparison paragraph, review their own paragraph, then plan and write a comparison essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Comparison Essay 2: Students will continue writing their comparison essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
12 /	Comparison Essay 3: Students will continue writing their comparison essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
13 /	Comparison Essay 4: Students will complete and submit their comparison essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
14 /	Academic Writing Tasks: Students will review Tasks 1 and 2, and will attempt the tasks under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
15 /	Review: Students will review what was learnt in this course, reflect on their performance, and consider the next semester.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work		

令和６年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	国語表現IIB	1	620700	後学期	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	黒田　譜美	白山麓C： 101.201		

授 業 科 目 の 学 習 教 育 目 標

キーワード		学習教育目標
1	書く	自分の思いや考えを多彩に表現したり、相手の声に共感をもって耳を傾けたりできるようになるために、言葉遊びや話し合い、エッセイや物語の創作など多種多様な言語活動に取り組む。物語の創作では、ストーリーマップやキャラクターマップを用い、緻密な世界観や魅力のある登場人物を設定して、一貫性のある物語を構成・展開できるようにするとともに、言葉のリズムやレトリック等表現の細部を工夫できるようにする。また、ものの見方、感じ方、考え方を豊かにする読書の意義と効用について理解を深め、生涯にわたって読書に親しむ態度を育成する。
2	話す	
3	聴く	
4	読む	
5	創作	

授業の概要および学習上の助言

■授業概要　この授業ではアクティブラーニングの一環として、問題解決学習を行う。
国語表現IIBでは、教科書『国語表現』（大修館書店）の下記内容に取り組む。
　読書のひろば
　言葉で遊ぶ
　エッセイを書こう
加えて、『国語表現　改訂版』（教育出版）の下記内容を参考とする。
　絵から物語を作る
　テーマから物語を作る

■学習上の助言
・課題は必ず提出すること。
・毎時の小テストは地道に取り組むこと。
・辞書は必ず用意すること。また、辞書を常に引くように心がけ、知らない言葉を確認し、着実に身につけること。
・さまざまなジャンルの本を読むよう心がけること。

【教科書および参考書・リザーブドブック】
教科書：『国語表現』大修館書店 ISBN：978-4-469-62396-3、『国語の常識 plus』明治書院 ISBN：978-4-469-625-23405-7
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

国語表現IA、IB、IIAを履修し、日本語の読解力や文章表現力を身につけている。

№	教育目標(DP) （記号表記）	学生が達成すべき行動目標
①	e,f	故事成語や慣用句の意味を理解し、実際に使うことができる。
②	e,f	比喩や押韻といったレトリックの効果を理解し、実際に使うことができる。
③	e,f	キャラクターマップを用い、個性的なキャラクターを設定できる。
④	e,f	ストーリーマップを用い、構成や展開を意識して物語を書くことができる。
⑤	e,f	読み手を意識し、着眼点、構成、文体、語句などを工夫して、エッセイを書くことができる。
⑥	e,f	読書の意義と効用について理解を深め、読書経験を重ねることができる

達 成 度 評 価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	30	40	10	0	20	0	100
総合力指標	知識を取り込む力	0	30	0	0	0	0	0	30
	思考・推論・創造する力	0	0	20	0	0	10	0	30
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	20	10	0	10	0	40
	学習に取組む姿勢・意欲	0	0	0	0	0	0	0	0

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①	レ	漢字・故事成語・慣用句の小テスト：20点
	②		
	③		
	④		
	⑤		
	⑥		
レポート	①		創作：40点 （俳句10点、絵から物語10点、ストーリーマップ5点、キャラクターマップ5点、作品10点） エッセイ：10点
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥		
成果発表 （口頭・実技）	①		ビブリオバトル：10点
	②		
	③		
	④		
	⑤		
	⑥	レ	
作品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①		レトリック：20点 （比喩5点、押韻5点、アクロスティック・アナグラム10点）
	②	レ	
	③		
	④		
	⑤		
	⑥		
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
故事成語や慣用句の意味を理解し、実際に使うことができる。 比喩や押韻の効果を理解し、実際に使うことができる。 キャラクターの構成要素を理解し、魅力的なキャラクターを造形できる。 ストーリーマップを活かし、独創的な物語を書くことができる。 着眼点、構成、文体、語句などを工夫して、心に響くエッセイを書くことができる。 読書の意義と効用について理解を深め、読書経験を重ねることができる。	故事成語や慣用句の意味を理解することができる。 比喩や押韻の効果を理解し、例文を作ることができる。 キャラクターを構成する要素を理解し、詳細を設定できる。 ストーリーマップを用い、展開を意識して物語を書くことができる。 着眼点、構成、文体、語句などを意識して、エッセイを書くことができる。 読書の意義と効用について理解し、読書経験を重ねることができる。

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	■科目ガイダンス ・科目の目的、内容、評価方法について理解する。 レトリック ・比喩の種類と効果について理解する。 ・比喩を用いた文章を書き、批評し合う。	ポートフォリオ 講義と質疑 プリント配布	復習：配布プリントを再読し、学習教育目標や行動目標を確認する。	30
2 ／	レトリック ・押韻や類音の仕組みと効果について理解する。 ・自分の好きな歌の歌詞を挙げ、どのような技法が用いられているかを説明する。	小テスト① ポートフォリオ 講義と質疑 プリント配布 グループワーク	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	30
3 ／	アクロスティック・アナグラム ・言葉遊びの体験を通して、言語表現の多様な側面を理解し、その楽しさを知る。	小テスト② ポートフォリオ 講義と質疑 プリント配布 グループワーク 小テスト①返却	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	
4 ／	短歌と俳句 ・短歌、俳句という伝統的な文芸ジャンルについて理解を深め、実際に創作する。	小テスト③ 講義と質疑 プリント配布 グループワーク 小テスト②返却	予習：小テストのための学習をする。 復習：教科書・ノートを見直す。	30
5 ／	短冊を作る ・篆刻について理解する。 ・短冊を作成し、相互評価する。	作品提出 講義と質疑 プリント配布 グループワーク 小テスト③返却	予習：教科書・ノートを見直す。 復習：相互評価を見直す。	30
6 ／	絵から物語を作る ・発端、展開、クライマックス、結末の展開を意識して、4枚の絵から短い物語を作る。	小テスト④ レポート提出 講義と質疑 プリント配布 グループワーク	予習：小テストのための学習をする。 復習：作品を仕上げる。	30
7 ／	物語の鑑賞と批評 ・作品を朗読し、感想を伝え合う。 ・物語を面白くするためにどのような工夫がいるか、話し合う。	 講義と質疑 プリント配布 グループワーク	予習：作品を読み直す。 復習：相互評価を見直す。	30
8 ／	物語の構成 ・プロップのカードを利用して物語を分析し、ストーリの展開要素について理解する。	小テスト⑤ 講義と質疑 プリント配布 グループワーク 小テスト④返却	予習：物語のテーマを決める。 復習：ノート・教科書を見直す。	30
9 ／	物語のテーマと設計図 ・物語のテーマを決める。 ・ストーリーマップとキャラクターマップを利用して物語の設計図を作る。	レポート提出 講義と質疑 プリント配布 グループワーク 小テスト⑤返却	予習：ストーリーマップを読み直す。 復習：作品を仕上げる。	30
10 ／	物語の創作 ・設計図に沿って物語を書く。	小テスト⑥ 講義と質疑 プリント配布 グループワーク	予習：作品を添削する。 復習：　作品を仕上げる。	30

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	物語の鑑賞と批評 ・作品を朗読し、感想を伝え合う。	レポート提出 講義と質疑 プリント配布 グループワーク 小テスト⑥返却	予習： 作品を読み直す。 復習：相互評価を見直す。	30
12 ／	ビブリオバトル ・発表内容の主題を決め、構成や展開を考える。	小テスト⑦ 講義と質疑 プリント配布 グループワーク	予習：小テストのための学習をする。 復習：構成ノートを見直す。	30
13 ／	ビブリオバトル ・身ぶりや手ぶりや表情なども活用し、本の魅力を表現する。 ・発表を聞いて質問したり、感想を伝えたりする。	成果発表 講義と質疑 プリント配布 グループワーク 小テスト⑦返却	予習：発表の練習をする。 復習：相互評価を見直す。	30
14 ／	エッセイ ・優れたエッセイを観賞し、視点や描写の面白さを味わう。 ・日常生活から題材を見つける。 ・書き出しや結びの工夫、レトリックの活用に挑戦して、実際にエッセイを書く。	レポート提出 講義と質疑 プリント配布 グループワーク	予習：エッセイのテーマを決める。 復習：エッセイを仕上げる。	30
15 ／	エッセイ ・作品を読み合い、相互評価する。 ・ふりかえりをする。	 講義と質疑 プリント配布 グループワーク	予習：エッセイを見直す。 復習：相互評価を見直す。	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Expression II B	1	620800	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TAYLOR, James	Hakusanroku C: 101.201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Writing	Students will come to prepared to speak and write in English. To progress in the class students will complete and submit tasks on time. Peer review and feedback are important parts of the writing process, so students will use every opportunity to communicate with classmates, respect others' ideas and opinions. It is crucial to ask classmates or the teacher for help when necessary.
2	Essays	
3	Genres	
4	Journal	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer group discussion and group work as types of active learning. Students will consider what they learnt in English Expression I A, I B, and II A and will expand on their knowledge by continuing to learn about and practice the writing process, including planning and peer review, to write essays. Through the writing process and targeted language activities, students will gain the skills to describe their ideas logically in written English. Short writing tasks will be completed on a weekly basis for homework to give students further opportunities to practice expressing themselves. Students will learn and practice the skills and language to achieve high scores on academic writing tasks.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate in written English.
Desire to improve writing skills through responding appropriately to receiving feedback and constructive criticism.
Work ethic to revise, edit, and rewrite drafts of an essay.

No.	Program Objectives	Target Abilities for Students (9pt)
①	b, f	Students will be able to develop sentences and paragraphs in response to issues and themes raised in class.
②	e	Students will be able to draw on cultural knowledge and personal experience to express themselves.
③	d, f, g	Students will be able to use planning techniques and peer review to develop their and others' work.
④	e, f	Students will be able to achieve clarity of thought by identifying the features of various genres of writing.
⑤	f, g	Students will be able to use rhetorical appeals to express thoughts and opinions and to persuade others.
⑥	e, f, i	Students will be able to investigate and discuss authors' intentions and meanings in various examples.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	80	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	20	0	5	0	0	25
	Ability to think, reason and create	0	0	20	0	5	0	0	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	20	0	5	0	0	25
	Attitude and motivation for learning	0	0	20	0	5	0	0	25

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✓	Students will write 2 different genres of essay, which will be graded according on Process (25), Task Achievement (25), Cohesion (25), Coherence (25). Essays will be submitted online. Feedback will be given online before the following lesson. Students will complete Academic Writing Task 1 and Task 2 at least twice each. These will be graded on Task Achievement (9), Coherence & Cohesion (9), Lexical Resource (9), Grammar (9). Feedback will be given online and in writing at the start of the following lesson.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	Students will write a journal of at least 200 words on an assigned topic for homework after each of the first 14 lessons. The journals will be submitted online. Students will receive credit for journals of sufficient length submitted on time. Each journal is worth 10 points. Feedback will be given online before the following lesson.
	②	✓	
	③		
	④		
	⑤	✓	
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students improve their writing drastically, go through the writing process, respond appropriately to feedback, and produce paragraphs of various genres that are logically structured, well argued, and supported by evidence from reliable sources. Students complete and submit all work on time. Students achieve high scores on academic writing tasks.	Students improve their writing to some extent, go through the writing process, respond to some feedback, and produce paragraphs of various genres that are for the most part logically structured, well argued, and supported by evidence from reliable sources. Students achieve reasonable scores on academic writing tasks.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction: Students will read the syllabus. Academic Writing Task 1: Students will review the features and structures of effective Task 1 answers.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
2 /	Academic Writing Task 1: Students will attempt Task 1 under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
3 /	Academic Writing Task 2: Students will review the features and structures of effective Task 2 answers.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
4 /	Academic Writing Task 2: Students will attempt Task 2 under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
5 /	Problem-Solution Essay 1: Students will review the features and structures of a problem-solution paragraph, review their own paragraph, then plan and write a problem-solution essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
6 /	Problem-Solution Essay 2: Students will continue writing their problem-solution essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
7 /	Problem-solution Essay 3: Students will continue writing their problem-solution essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
8 /	Problem-solution Essay 4: Students will complete and submit their problem-solution essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
9 /	Academic Writing Tasks 1 and 2: Students will review Tasks 1 and 2, and will attempt the tasks under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
10 /	Persuasive Essay 1: Students will review the features and structures of a persuasive paragraph, review their own paragraph, then plan and write a persuasive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Persuasive Essay 2: Students will continue writing their persuasive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
12 /	Persuasive Essay 3: Students will continue writing their persuasive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
13 /	Persuasive Essay 4: Students will complete and submit their persuasive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
14 /	Academic Writing Tasks 1 and 2: Students will review Tasks 1 and 2, and will attempt the tasks under exam conditions.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work	Journal	30
15 /	Review: Students will review what was learnt in this course, reflect on their performance, and consider their future English writing studies.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work		

令和７年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単 位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	日本語IIA Japanese IIA	2	622200	前学期 1st semester	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	筒井　昌子 TSUSUI, Masako	白山麓C 101.201		

授 業 科 目 の 学 習 教 育 目 標

	キーワード	学習教育目標
1	日本語	この科目では、先学期開講した「日本語IB」から継続して、日常の日本語でのコミュニケーション能力と文法表現・文字・語彙知識を向上させることをめざす。 Continuing from the Japanese IB class in the previous semester, students will aim to improve their daily communication proficiency while developing their knowledge in grammar expressions, kanji and vocabulary.
2	コミュニケーションスキル	
3	日本文化・社会	
4		
5		

授業の概要および学習上の助言

【授業概要】
この科目では、初中級の教材およびワークブックを用いて、コミュニケーション上で実践的に使える表現や漢字と語彙の知識を増やす学習を行う。
Using an beginner-intermediate level textbook and its workbooks students will engage in the work to increase their knowledge and practical skills in grammar expressions, kanji and grammar.

【学習上の助言】
・学習目標を常に意識すること。
・わからない言葉は辞書で調べること。
- Always be aware of your learning goals.
- Look up unfamiliar words in a dictionary.

※この授業ではアクティブラーニングの一環として、調査学習、体験学習、グループワークなどを行う。
* This class will include research, experiential learning, and group work as part of active learning.

【教科書および参考書・リザーブドブック】
教科書：『いろどり　生活の日本語』国際交流基金（オンラインテキスト）
『まるごと 日本のことばと文化 初級２ りかい』三修社 978-4384057577
『かんじたまご 初中級　新装版』凡人社 978-4-86746-023-8
参考書：なし
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：なし

履修に必要な予備知識や技能

日本語初級程度以上の語彙・文法知・漢字の知識と実際に使える技能
Knowledge and practical skill of beginning ~semi-intermediate level of kanji, vocabulary, grammar.

№	教育目標(DP) （記号表記）	学生が達成すべき行動目標
①	e,i	テキストで学んだ文型や語彙が用いられた日本語表現を聞いたり読んだりして、意味を理解できる。 Student will be able to listen to and read Japanese expressions in which sentence patterns and vocabulary learned are used and understand their meanings.
②	e,f,i	テキストで学んだ文型や語彙を用いながら話したり書いたりして、自分の意志を伝えることができる。 Student will be able to communicate his/her intentions by speaking and writing while using the sentence patterns and vocabulary learned.
③	e,i	スピーチレベル（丁寧体と普通体）の違いを理解し、使い分けができる。 Student will understand the difference between conversational levels (polite and casual) and be able to distinguish between the two and use them.
④	e,g,i	学習した漢字や言葉をもとに、必要な情報を収集することができる。 Student will be able to collect necessary information based on learned Kanji characters and words.
⑤	e,f,i	学習した漢字を使って、自己表現ができる。 Student will be able to express him/her self using the kanji they have learned.
⑥	e,g,i	まとまりのある長さの文章を読んで理解できる。 Student will be able to read and comprehend sentences of coherent length.

達 成 度 評 価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	70	15	15	0	0	0	100
総合力指標	知識を取り込む力	0	60	1	1	0	0	0	62
	思考・推論・創造する力	0	10	1	1	0	0	0	12
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	10	10	0	0	0	20
	学習に取組む姿勢・意欲	0	0	3	3	0	0	0	6

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①	✓	**クイズ・テスト** Quizzes/Test
	②	✓	・文字（漢字を含む）・語彙　評価割合　10% - Letters (include Kanji), vocabulary　(10/100)
	③	✓	・読解　評価割合　20%
	④	✓	- Reading　(20/100)
	⑤	✓	・学習した語彙、文型、会話文を含む筆記テスト　評価割合　40%
	⑥	✓	- A written test will be given, including new vocabulary, sentence patterns, and conversational sentences learned.　(40/100) ※1課または数課ごとにクイズを行う。回数や実施日は学習進度によって変わるため学生と相談の上決定する。 * Quizzes will be given every 1chapter or few chapters. The number of quizzes and dates will depend on the progress of the students and will be decided in consultation with the students.
レポート	①		
	②	✓	**レポート** Repot
	③	✓	・作文　評価割合　15%
	④	✓	- Essay　(15/100)
	⑤	✓	※評価内容は事前にルーブリックを提示する。 *A rubric will be presented in advance of the evaluation content.
	⑥		
成果発表 （口頭・実技）	①		
	②	✓	**発表** Presentation
	③	✓	・発表　評価割合　15%
	④	✓	- presentation　(15/100)
	⑤		※評価内容は事前にルーブリックを提示する。 *A rubric will be presented in advance of the evaluation content.
	⑥		
作品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①		
	②		
	③		
	④		
	⑤		
	⑥		
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
・助詞を正しく使って、学習した文型で文を産出できる。 ・自分が言いたいことを、学習した文型や語彙を用いて、いくつかの単文で表現できる。 ・辞書を使いながらまとまった長さの文章をひとりで読んで、大意を正しく理解できる。 -Can produce sentences using the learned sentence patterns with correct use of particles. -Can express what he/she wants to say in several single sentences using the learned sentence patterns and vocabulary. -Able to read sentences of a coherent length on one's own using a dictionary and correctly understand the main idea.	・時折、助詞の間違いなどはあるが、意味が通じる程度の正確さで学習した文型を産出できる。 ・自分が言いたいことを、ネイティブスピーカーに文型や語彙を助けてもらいながら、いくつかの単文で表現できる。 ・教師に助言をもらいながらまとまった長さの文章を読んで、大意をおおよそ理解できる。 -Can produce the learned sentence patterns with enough accuracy to make sense, despite occasional errors with particles. -Able to express what they want to say in a few single sentences with the help of native speakers in terms of sentence structure and vocabulary. -With the help of a teacher, be able to read sentences of a coherent length and understand the main idea.

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	Class Orientation Review on the previous studies	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
2 ／	Lesson 1 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
3 ／	Lesson2 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
4 ／	Lesson3 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
5 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
6 ／	**Vocabulary Quiz L1,2,3** Lesson 4 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
7 ／	**Grammar Quiz L1,2,3** Lesson 5 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents	15
8 ／	Lesson 6 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
9 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
10 ／	**Vocabulary Quiz L4,5,6** Lesson 7 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
11 ／	**Grammar Quiz L4,5,6** Lesson 8 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents	30
12 ／	Lesson 9 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
13 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
14 ／	Shodo	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
15 ／	**Vocabulary Quiz L7,8,9** Lesson 10 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
16 ／	**Grammar Quiz L7,8,9** Lesson 11 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents	30
17 ／	Lesson 12 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
18 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
19 ／	**Vocabulary Quiz L10,11,12** Lesson 13 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
20 ／	**Grammar Quiz L10,11,12** Lesson 14 Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents	30
21 ／	Lesson 15 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
22 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
23 ／	Lesson 16 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents	30
24 ／	Lesson 17 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course content	30
25 ／	Review 18 Kanji	講義・演習 Lecture・Practice	授業内容の復習 Review the course content クイズの準備 Prepare for quiz	30
26 ／	**Vocabulary Quiz L13,14,15** Review Kanji	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course content クイズの準備 Prepare for quiz	30
27 ／	**Grammar Quiz L13,14,15** Review Essay	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents	30
28 ／	Review	講義・演習 Lecture・Practice	授業内容の復習 Review the course content クイズの準備 Prepare for quiz	30
29 ／	**Vocabulary Quiz L16,17,18** Review	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	授業内容の復習 Review the course contents クイズの準備 Prepare for quiz	30
30 ／	**Grammar Quiz L16,17,18** Reflection & Self Evaluation	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	*** Deadline for submitting a essay**	なし

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II A (Reading Strategy)	1	622300	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TSUDA, Akihiro	Hakusanroku C: 101. 201		Monday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and more reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer pair-work in class as a type of active learning.

This course is divided into 2 sections; Reading Strategy and Writing.

(Reading Strategy)
Lecture, exercise
You need to submit all the handouts after a quiz.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None (Handouts)
Reference books: キクタン Advanced 6000,（アルク社）9784757422070「１０分間英語速読トレーニング Level 3」（桐原書店） 9784342156359
Reserved books: *Reading Power 2* ISBN: 9780138143886 / *Reading Power 3* ISBN: 9780132089036

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions. Students can speak and write basic sentences in English to complete homework activities, to communicate with other students, and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f,g,i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f,g,i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

＊ The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% : Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30% : (Reading) Each quiz will be given after each reading skill. (Writing) A final draft of three (3) essays with your highest passing scores. 10% : Speed reading homework (Online) 15% : Vocabulary quiz (KIKUTAN) Based on the results, the quiz can be taken again. The results will be returned in the following week. 10%: In-class Critical Thinking Journals (150-250 words) Journals will be graded and returned in class the following week
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	25%: (Reading) Complete the handouts and submit in time. The class handouts will be returned in class after a quiz. (Writing) Complete and submit all writing exercises, re-writes, first drafts and final drafts in your journals at the end of each unit.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction Vocabulary Quiz	Lecture Exercise	Read the syllabus Study vocabulary	20
2 /	Scanning	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
3 /	Scanning	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
4 /	Collocations	Lecture Exercise	Speed Reading L3-4 Review reading skills	30
5 /	Collocations Focusing on the Topic	Lecture Exercise	Speed Reading L5-6 Review reading skills	30
6 /	Focusing on the Topic	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
7 /	Focusing on the Topic	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
8 /	Understanding Paragraphs	Lecture Exercise	Speed Reading L9-10 Review reading skills	30
9 /	Understanding Paragraphs	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
10 /	Understanding Paragraphs	Lecture Exercise	Speed Reading L13-14 Review reading skills	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Understanding Paragraphs Quiz	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
12 /	IELTS Strategies	Lecture Exercise	Speed Reading L17-18 Review reading skills	30
13 /	IELTS Strategies	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
14 /	IELTS Strategies	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
15 /	IELTS Strategies	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
16 /	Final Exam	Review and evaluate your progress and understanding	Review the final exam	30
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II A (Writing Strategies)	1	622300	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	BAIRD, Pauline	Hakusanroku C 101.201		M-W 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and more reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer collaboration, discovery, and experiential learning as types of active learning. This course is divided into 2 sections: Reading Strategies and Writing Strategies.

(Writing Strategies)
Mini-workshops, Journaling, Exercises, Note-taking
You need to submit all assignments on their due dates. They will be returned to you the next week.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None (Handouts)
Reference books: *Skills for Academic Success: Reading Choice.* 978-8214-17725-0
Reserved books: *IELTS 12 Academic* by Cambridge University Press. 2017

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions. Students can speak and write basic sentences in English to complete homework activities, to communicate with other students, and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f,g,i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f,g,i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30%: (Reading) Each quiz will be given after each reading skill. (Writing) Final essays and personal projects. 10%: In-class Intensive writing (150-250 words) Journals will be graded and returned in class the following week 15%: Speed reading 10%: Vocabulary quiz (KIKUTAN) in Learning Session
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	(Reading) Complete the handouts and submit in time. The class handouts will be returned in class after a quiz. 25 % (Writing) Complete all notes, journals, exercises, and drafts. Submit them in class on the due date. All essays without a passing score must be rewritten after class (by appointment). All graded assignments will be available in class or online the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction Pre-Writing Instruction Test	Diagnostic Test Exercise	Read the syllabus Study vocabulary	20
2 /	**Unit 1: Chronological Order** Warm-up Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Mini-workshop Exercise *Personal Project*	Review and complete assignments.	30
3 /	Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Workshop Exercise	Review and complete assignments.	30
4 /	**Quiz 1**: Essay and Notes Due	Conferencing & peer review	Review and complete assignments.	30
5 /	**Unit 2: Classification** Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	*Personal Project*	Review and complete assignments.	30
6 /	Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Workshop Exercise	Review and complete assignments.	30
7 /	**Quiz 2**: Essay and Notes Due	Conferencing & peer review	Review and complete assignments.	30
8 /	**Unit 3: Comparison and Contrast** Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	*Personal Project*	Review and complete assignments.	30
9 /	Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Workshop Exercise	Review and complete assignments.	30
10 /	**Quiz 3**: Essay and Notes Due	Conferencing & peer review	Review and complete assignments.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	**Unit 4: Cause and Effect** Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Workshop Exercise *Personal Project*	Review and complete assignments.	30
12 /	Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Conferencing & peer review	Review and complete assignments.	30
13 /	**Quiz 4**: Essay and Notes Due	Diagnostic Test Exercise	Review and complete assignments.	30
14 /	Extensive Reading & Online Journaling (20 mins) IELTS Task 2 Model Analysis & Exercises	Workshop Exercise *Personal Project*	Review and complete assignments.	30
15 /	Post-Instruction Assessment interview, Reflections and Course Evaluation	Conferencing & peer review	Review and prepare for exam	30
16 /	Final Exam	Review & evaluate your progress	Review the final exam	30
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II A (Advanced)	1	622300	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	REYNOLDS, Stephanie	Hakusanroku C 101.201		Monday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer group work, discussion, and reflection in class as a type of active learning. It will be divided into 5 sections; Reading Strategy, Grammar, Vocabulary, Extensive Reading, and Writing,

(Reading Strategy) In-class activities and exercises to practice academic reading skills.
(Grammar) In-class activities and exercises to practice sentence structure and word forms for academic writing.
(Vocabulary) Study sets, practice, and regular quizzes to measure growth of vocabulary understanding.
(Extensive Reading) Sustained silent-reading of 1 or more self-selected books at an independent reading level recorded in a reading log.
(Writing) In-class activities and exercises to practice grammar and organization of 4 types of paragraphs/essays.

You need to keep all your assignments and handouts in a folder.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books: Reflect: Reading & Writing 5 9780357448588 or Reflect: Reading & Writing 6 9780357448595
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions.
Students can speak and write basic sentences in English to complete homework activities, to communicate with other students, and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f, g, i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f, g, i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description writing styles.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% Final exam (academic English proficiency test) including TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30% : (Reading Strategy) In-class assignments focusing on reading skills and word forms 10% (Grammar) In-class assignments focusing on grammar and sentence structure. 15% : (Vocabulary) 5 quizzes will be given in classes 1, 3,7, 11, 15. 10% : (Extensive Reading Log) Students will read self-selected books/articles for homework 30 minutes each week for a total of 8 hours over 15 weeks. Feedback and graded assignments will be returned in class and/or online in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	25%: Students will write 4 original, distinct writing tasks, which will be graded according to the following criteria: Writing Process, Task Achievement, Cohesion and Coherence, Vocabulary, Grammar, Format. Students will submit drafts in class and typed assignments online, before the next class period. Verbal and written feedback will be given in writing conferences with the teacher during the following class.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction: Students will read the syllabus. Reading: Unit 1 Reading 1 Writing: Grammar Quiz 1	Individual and group exercises. Discussion	Read the syllabus. Complete unfinished assignments Extensive Reading Log	30
2 /	Reading: Unit 1 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
3 /	Reading: Quiz 2 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
4 /	Reading: Extensive Reading Writing: Feedback and Revision	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
5 /	Reading: Unit 2 Reading 1 Writing: Grammar	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
6 /	Reading: Unit 2 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
7 /	Reading: Quiz 3 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
8 /	Reading: Extensive Reading Writing: Feedback and Revision	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
9 /	Reading: Unit 3 Reading 1 Writing: Grammar	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
10 /	Reading: Unit 3 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Reading: Quiz 4 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
12 /	Reading: Extensive Reading Writing: Feedback and Revision, Grammar	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
13 /	Reading: Unit 4 Reading 1 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
14 /	Reading: Unit 4 Reading 2 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
15 /	Reading: Quiz 5 Writing: Feedback and revision	Discussion and peer conferencing. Review and evaluate your progress and understanding.		30
16 /	Final Exam	Review and evaluate your progress and understanding.	Review the final exam.	
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Listening and Speaking II A (Low)	1	622400	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TAYLOR, James	Hakusanroku C. 101-201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Listening	Students will develop oral communication abilities for classes taught in academic English and to be able to function socially in an English-speaking environment. Students will be able to talk about things they like/dislike and their hobbies; describe people, things, events, and places using a variety of vocabulary and grammatical structures. Also, students will improve their understanding of topics and vocabulary used in their classes.
2	Speaking	
3	Communication	
4	Study skills	
5	Presentation skills	

Course Description and Expectations for Students (10.5pt)

This course will offer group discussion and group work as types of active learning. This course emphasizes the use of basic English language for oral communication. Its main purpose is for the students to be able to exercise literacy skills including, speaking, listening, and notetaking for learning in their academic classes. Students will also be able to interact with others using English. This course will be taught through the first 3 units of a textbook.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: *Perspectives 4: National Geographic Learning by (Eds). Amanda Jefferies, Lewis Lansford, Daniel Barber, (National Geographic Learning) 2018.* ISBN: 978-1-337-27715-0.

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Low/lower-intermediate English listening and speaking ability.

No.	Program Objectives	Target Abilities for Students (9pt)
①	f	Students will be able to greet and introduce themselves to new acquaintances and talk about emotions.
②	f	Students will be able to discuss and give opinions about hobbies, sports, and travel.
③	d, h	Students will be able to discuss and describe food, photos, work, shopping, and the human body.
④	f, i	Students will be able to set goals, make agree and disagree statements, and ask questions.
⑤	g, f, i	Students will be able to discuss past events and ask for, and make recommendations.
⑥	d, f	Students will be able to discuss time, explain causes, and give reasons.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	50	25	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	25	5	5	0	0	0	35
	Ability to think, reason and create	0	0	5	5	0	0	0	10
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	25	5	5	0	0	0	35
	Attitude and motivation for learning	0	0	5	5	0	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	∨	There will be Progress Quizzes in lessons 7 and 14. Quizzes will use IELTS-style questions. Quizzes are designed to show the progress of students' English ability during the semester. Each quiz will have a target score required to pass. Failure to achieve the minimum target score will require the student to take a retest. Quizzes will be graded and returned with feedback by the following lesson in class.
	②	∨	
	③	∨	
	④	∨	
	⑤	∨	
	⑥	∨	
Reports	①	∨	Students will do grammar/vocabulary activities in each unit, which will be graded and returned with feedback by the following lesson in class. Each unit will contain a listening activity. This will be graded and returned with feedback by the following lesson in class.
	②	∨	
	③	∨	
	④	∨	
	⑤	∨	
	⑥	∨	
Presentations	①	∨	There will be at least one speaking activity in each unit. Speaking activities will be graded and returned with feedback by the following lesson in class. Students will complete a spoken reflection exercise at the end of each unit. Reflections will be graded and returned with feedback by the following lesson in class.
	②	∨	
	③	∨	
	④	∨	
	⑤	∨	
	⑥	∨	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will work efficiently to complete tasks on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will work somewhat efficiently to complete tasks on time and to a reasonable standard. Students will respond to most feedback appropriately and occasionally seek help when necessary.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction Unit 1: Hopes and Dreams Grammar/Vocabulary	Syllabus; stations; textbook; worksheets; online activities; individual, pair, and group activities.	Review the syllabus.	30
2 /	Unit 1: Hopes and Dreams Grammar/Vocabulary & Listening	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
3 /	Unit 1: Hopes and Dreams Listening & Speaking	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
4 /	Unit 1: Hopes and Dreams Speaking & Reflection	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
5 /	Unit 2: Reading the World Grammar/Vocabulary	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete the reflection and submit before the next lesson.	30
6 /	Unit 2: Reading the World Grammar/Vocabulary & Listening	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
7 /	Progress Quiz 1	Test questions.	Review the test questions.	30
8 /	Unit 2: Reading the World Listening & Speaking	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
9 /	Unit 2: Reading the World Speaking & Reflection	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
10 /	Unit 3: Pristine Places Grammar/Vocabulary	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete the reflection and submit before the next lesson.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Unit 3: Pristine Places Grammar/Vocabulary & Listening	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
12 /	Unit 3: Pristine Places Listening & Speaking	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete unfinished classwork and submit before the next lesson.	30
13 /	Unit 3: Pristine Places Speaking & Reflection	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Complete the reflection and submit before the next lesson.	30
14 /	Progress Quiz 2	Test questions.	Review the test questions.	30
15 /	Review & Catch-up	End of course questionnaire; self-assessment activities.		

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Listening and Speaking II A (Adv)	1	622400	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	STEVENSON, Ian	Hakusanroku C.: 101.201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Listening	Students will develop oral communication abilities for classes taught in academic English and to be able to function socially in an English-speaking environment. Students will be able to talk about things they like/dislike, their hobbies and to describe people, things, events, and places using a variety of vocabulary and grammatical structures. Also, students will improve their understanding of topics and vocabulary used in their classes.
2	Speaking	
3	Communication	
4	Study skills	
5	Presentation skills	

Course Description and Expectations for Students (10.5pt)

This course will offer group work and discussion, problem solving, discovery and experiential learning as types of active learning. This course emphasizes the use of basic English language for oral communication. Its main purpose is for students to be able exercise literacy skills including, speaking and listening and notetaking for learning in their academic classes. Students will also be able to interact with others using English. This course will be taught through the first 5 units of the textbook.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: *Perspectives 4 (Advanced): National Geographic Learning* by (Eds). Lewis Lansford, Daniel Barber, Amanda Jefferies. ISBN 978-1-337-27715-0

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Advanced English listening and speaking ability.

No.	Program Objectives	Target Abilities for Students (9pt)
①	f	Students will be able to greet and introduce themselves to new acquaintances and talk about emotions.
②	f	Students will be able to discuss and give opinions about hobbies, sports, and travel.
③	d, h	Students will be able to discuss and describe food, photos, work, shopping, and the human body.
④	f, i	Students will be able to set goals, make agree and disagree statements, and ask questions.
⑤	g, f, i	Students will be able to discuss past events and ask for, and make recommendations.
⑥	d, f	Students will be able to discuss time, explain causes, and give reasons.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	50	25	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	25	5	5	0	0	0	35
	Ability to think, reason and create	0	0	5	5	0	0	0	10
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	25	5	5	0	0	0	35
	Attitude and motivation for learning	0	0	5	5	0	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	∠	There will be Proficiency Quizzes in lessons 7 and 14. Quizzes will use IELTS-style questions. Quizzes are designed to show the progress of students' English ability during the semester. Each quiz will have a target score required to pass. Failure to achieve the minimum target score will require the student to take a retest. Quizzes will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Reports	①	∠	Students will do grammar, listening, speaking and vocabulary activities in each unit, which will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Presentations	①	∠	There will be presentation activities in each unit. These activities will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will collaborate effectively to complete projects on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will collaborate to complete projects to a reasonable standard. Students will respond to most feedback and will occasionally seek help.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introductions: Teacher, Syllabus, Classroom tools and expectations. Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
2 /	Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
3 /	Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
4 /	Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
5 /	Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
6 /	Textbook Units 1, 2 & 3	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
7 /	Progress Quiz 1	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
8 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
9 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
10 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
12 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
13 /	Textbook Units 4, 5 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
14 /	Progress Quiz 2	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
15 /	Wrap Up and Review Focus: Reflection on semester	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

令和７年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単 位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	日本語IIB Japanese IIB	2	622500	後学期 2nd semester	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	筒井　昌子 TSUSUI, Masako	白山麓C 101.201		

授 業 科 目 の 学 習 教 育 目 標

	キーワード	学習教育目標
1	日本語	この科目では、伝わる日本語を身につけるために知識をさらに増やす。 In this course, students will further increase their knowledge in order to acquire Japanese language skills that can be communicated.
2	コミュニケーションスキル	
3	日本文化・社会	
4		
5		

授業の概要および学習上の助言

【授業概要】

この科目では、中級教材およびワークブックを用いて、コミュニケーション上で実践的に使える表現や漢字と語彙の知識を増やす学習を行う。

Using an intermediate level textbook and its workbooks students will engage in the work to increase their knowledge and practical skills in grammar expressions, kanji and grammar.

【学習上の助言】

・学習目標を常に意識すること。

・わからない言葉は辞書で調べること。

- Always be aware of your learning goals.

- Look up unfamiliar words in a dictionary.

※この授業ではアクティブラーニングの一環として、調査学習、体験学習、グループワークなどを行う。

* This class will include research, experiential learning, and group work as part of active learning.

【教科書および参考書・リザーブドブック】

教科書：『シャドーイング 日本語を話そう 初～中級編』くろしお出版 2023 ISBN 978487424850

練習帳：『日本語総まとめ N3 文法 英語・ベトナム語版　増補改訂版ワークブック』アスク 2022 ISBN 9784866395081

参考書：なし

ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：なし

履修に必要な予備知識や技能

日本語初中級程度以上の漢字・語彙・文法知識および実際に使える技能

Knowledge and practical skill of beginning ~semi-intermediate level of kanji, vocabulary, grammar.

№	教育目標(DP) （記号表記）	学生が達成すべき行動目標
①	e,i	テキストで学んだ文型や語彙が用いられた日本語表現を聞いたり読んだりして、意味を理解できる。 Student will be able to listen to and read Japanese expressions in which sentence patterns and vocabulary learned are used and understand their meanings.
②	e,f,i	テキストで学んだ文型や語彙を用いながら話したり書いたりして、自分の意志を伝えることができる。 Student will be able to communicate his/her intentions by speaking and writing while using the sentence patterns and vocabulary learned.
③	e,i	スピーチレベル（丁寧体と普通体）の違いを理解し、使い分けができる。 Student will understand the difference between conversational levels (polite and casual) and be able to distinguish between the two and use them.
④	e,g,i	学習した漢字や言葉をもとに、必要な情報を収集することができる。 Student will be able to collect necessary information based on learned Kanji characters and words.
⑤	e,f,i	学習した漢字を使って、自己表現ができる。 Student will be able to express him/her self using the kanji they have learned.
⑥	e,g,i	まとまりのある長さの文章を読んで理解できる。 Student will be able to read and comprehend sentences of coherent length.

達 成 度 評 価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	70	15	15	0	0	0	100
総合力指標	知識を取り込む力	0	70	0	0	0	0	0	70
	思考・推論・創造する力	0	0	0	0	0	0	0	0
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	10	10	0	0	0	20
	学習に取組む姿勢・意欲	0	0	5	5	0	0	0	10

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評 価 方 法	行動目標		評 価 の 実 施 方 法 と 注 意 点
試 験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①	✓	**クイズ・テスト** Quizzes/Test
	②	✓	・文字（漢字を含む）・語彙　評価割合　10% - Letters (include Kanji), vocabulary　(10/100)
	③		・読解　評価割合　20% - Reading　(20/100)
	④	✓	・学習した語彙、文型、会話文を含む筆記テスト　評価割合　40% - A written test will be given, including new vocabulary, sentence patterns, and conversational sentences learned.　(40/100)
	⑤	✓	
	⑥	✓	※1課または数課ごとにクイズを行う。回数や実施日は学習進度によって変わるため学生と相談の上決定する。 * Quizzes will be given every 1chapter or few chapters. The number of quizzes and dates will depend on the progress of the students and will be decided in consultation with the students.
レポート	①		
	②	✓	**レポート** Repot
	③	✓	・作文　評価割合　15% - Essay　(15/100)
	④	✓	
	⑤	✓	※評価内容は事前にルーブリックを提示する。 *A rubric will be presented in advance of the evaluation content.
	⑥		
成果発表 （口頭・実技）	①		
	②	✓	**発表** Presentation
	③	✓	・発表　評価割合　15% - presentation　(15/100)
	④	✓	
	⑤	✓	※評価内容は事前にルーブリックを提示する。 *A rubric will be presented in advance of the evaluation content.
	⑥		
作 品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①		
	②		
	③		
	④		
	⑤		
	⑥		
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
・助詞を正しく使って、学習した文型で文を産出できる。 ・自分が言いたいことを、学習した文型や語彙を用いて、いくつかの単文で表現できる。 ・辞書を使いながらまとまった長さの文章をひとりで読んで、大意を正しく理解できる。	・時折、助詞の間違いなどはあるが、意味が通じる程度の正確さで学習した文型を産出できる。 ・自分が言いたいことを、ネイティブスピーカーに文型や語彙を助けてもらいながら、いくつかの単文で表現できる。 ・教師に助言をもらいながらまとまった長さの文章を読んで、大意をおおよそ理解できる。
-Can produce sentences using the learned sentence patterns with correct use of particles. -Can express what he/she wants to say in several single sentences using the learned sentence patterns and vocabulary. -Able to read sentences of a coherent length on one's own using a dictionary and correctly understand the main idea.	-Can produce the learned sentence patterns with enough accuracy to make sense, despite occasional errors with particles. -Able to express what they want to say in a few single sentences with the help of native speakers in terms of sentence structure and vocabulary. -With the help of a teacher, be able to read sentences of a coherent length and understand the main idea.

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	Class Orientation Review on the previous studies Q&A Conversation Explanation of Presentation Planning for the class schedule	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画書の仕上げと確認 Finalizing and confirming the study plan	30
2 ／	Textbook (Follow own study plan) or Prepare for the presentation	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
3 ／	Textbook (Follow own study plan) or Prepare for the presentation	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
4 ／	Textbook (Follow own study plan) or Prepare for the presentation	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan 発表の準備 Prepare for the presentation (not yet fixed)	30
5 ／	Textbook (Follow own study plan) Presentation (not yet fixed)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
6 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan クイズの準備 Prepare for the quiz	30
7 ／	Textbook (Follow own study plan) Quiz (not fixed)	講義・演習 Lecture・Practice クイズの採点・返却 Grading and return of quizzes	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
8 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
9 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
10 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan クイズの準備 Prepare for the quiz	30
11 ／	Textbook (Follow own study plan) Quiz (not fixed)	講義・演習 Lecture・Practice クイズの採点・返却 Grading and return of quiz	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
12 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
13 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
14 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
15 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan テストの準備 Prepare for the test	30
16 ／	Textbook (Follow own study plan) Test (not fixed)	講義・演習 Lecture・Practice テストの採点・返却 Grading and return of test	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
17 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
18 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
19 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
20 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan クイズの準備 Prepare for the quiz	30
21 ／	Textbook (Follow own study plan) Quiz (not fixed)	講義・演習 Lecture・Practice クイズの採点・返却 Grading and return of quizzes	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
22 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
23 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
24 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
25 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan クイズの準備 Prepare for the quiz	30
26 ／	Textbook (Follow own study plan) Quiz (not fixed)	講義・演習 Lecture・Practice クイズの採点・返却 Grading and return of quizzes	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30
27 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan	30

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回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
28 ／	Textbook (Follow own study plan)	講義・演習 Lecture・Practice	授業内容の復習 Review the course contents 学習計画の見直し Review of study plan テストの準備 Prepare for the test	30
29 ／	Textbook (Follow own study plan) Finalize the report (not fixed yet) Test (not fixed)	講義・演習 Lecture・Practice テストの採点・返却 Grading and return of test	授業内容の復習 Review the course contents レポートの完成 Finalize the report	30
30 ／	Reflection & Self Evaluation	講義・演習 Lecture・Practice	* Deadline for the Report (not fixed yet)	なし

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II B (Reading Strategy)	1	622600	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TSUDA, Akihiro	Hakusanroku C: 101. 201		Monday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and more reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer pair-work in class as a type of active learning.

This course is divided into 2 sections; Reading Strategy and Writing.

(Reading Strategy)
Lecture, exercise
You need to submit all the handouts after a quiz.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None (Handouts)
Reference books: キクタン Advanced 6000,（アルク社）9784757422070「１０分間英語速読トレーニング Level 4」（桐原書店） 9784342156403
Reserved books: *Reading Power 2* ISBN: 9780138143886 / *Reading Power 3* ISBN: 9780132089036

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions.
Students can speak and write basic sentences in English to complete homework activities, to communicate with other students, and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f,g,i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f,g,i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

＊ The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% : Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30% : (Reading) Each quiz will be given after each reading skill. (Writing) A final draft of three (3) essays with your highest passing scores. 10% : Speed reading homework (Online) 15% : Vocabulary quiz (KIKUTAN) Based on the results, the quiz can be taken again. The results will be returned in the following week. 10%: In-class Critical Thinking Journals (150-250 words) Journals will be graded and returned in class the following week
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	25%: (Reading) Complete the handouts and submit in time. The class handouts will be returned in class after a quiz. (Writing) Complete and submit all writing exercises, re-writes, first drafts and final drafts in your journals at the end of each unit.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction Review (IELTS Strategies) Vocabulary Quiz	Lecture Exercise	Read the syllabus Study vocabulary	20
2 /	IELTS Training	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
3 /	IELTS Training	Lecture Exercise	Speed Reading L3-4 Review reading skills	30
4 /	IELTS Training	Lecture Exercise	Speed Reading L5-6 Review reading skills	30
5 /	IELTS Training	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
6 /	IELTS Training	Lecture Exercise	Speed Reading L9-10 Review reading skills	30
7 /	IELTS Training	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
8 /	IELTS Training	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
9 /	IELTS Training (Review)	Lecture Exercise	Speed Reading L15-16 Review reading skills	30
10 /	IELTS Training (Review)	Lecture Exercise	Speed Reading L17-18 Review reading skills	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Skimming	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
12 /	Skimming	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
13 /	Making Inference	Lecture Exercise	Speed Reading L23-24 Review reading skills	30
14 /	Making Inference	Lecture Exercise	Review reading skills	30
15 /	Making Inference	Lecture Exercise	Review reading skills	30
16 /	Final Exam	Review and evaluate your progress and understanding	Review the final exam	30
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II B (Writing Strategies)	1	622600	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	BAIRD, Pauline	Hakusanroku C 101.201		M-W 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and more reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course offers discovery, investigation, and problem-solving as active learning. This course is divided into 2 sections: Reading Strategy and Writing Strategies.

(Writing Strategies)
Mini-workshops, exercises, interviews, guest lecture
You need to submit all assignments on their due dates. They will be returned to you the next week.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None (Handouts)
Reference books: *Skills for Academic Success: Reading Choice.* 978-8214-17725-0
Reserved books: *IELTS 12 Academic* by Cambridge University Press. 2017

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions. Students can speak and write basic sentences in English to complete homework activities, to communicate with other students, and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f,g,i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f,g,i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30%: (Reading) Each quiz will be given after each reading skill. (Writing) Complete unit topics and personal projects with a passing score. 10%: Speed reading homework (Manaba) 15%: Vocabulary quiz (KIKUTAN) in Learning Session 10%: Journals (150-250 words) Journals will be graded and returned in class the following week
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	(Reading) Complete the handouts and submit them in time. The class handouts will be returned in class after a quiz. 25 % (Writing) Complete all exercises and drafts. Submit them in class on the due date. Assignments will be returned in class the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction Intensive Reading (15 mins); Journal (15 mins in class) & Extensive Online Journal – free choice (15 mins)	Diagnostic Test Exercise	Read the syllabus Study vocabulary	20
2 /	**Unit 1: Problem and Solution** Reading to Respond (Agree/disagree) Problem & Solution / Choose the best solution & reasons Use WH questions (Group work & notes) - Select 25 vocabulary and expressions	Workshop Exercise *Personal Project*	Review and complete assignments.	30
3 /	Reading to Journal (15 mins in class & 15 mins Online Journal) Counter the solutions & refute a solution (Group work & Notes)	Workshop Exercise	Review and complete assignments.	30
4 /	Reading to Journal (15 mins in class & 15 mins Online Journal) **Catch up & Prepare notes for quiz 1**	Conferencing and peer review	Review and complete assignments.	30
5 /	**Quiz 1: Problem Solution Response Due & Dictation:** 25 vocabulary and expressions **Catch up**	*Personal Project*	Review and complete assignments.	30
6 /	**Unit 2: Lifestyle and Technology** Reading to Journal (15 mins in class & 15 mins Online Journal) Analyze a text & prepare a response (to what extent …? Select vocabulary and expression (a list of 25 words and phrases with sentences).	Workshop Exercise *Personal Project*	Review and complete assignments.	30
7 /	Reading to Journal (15 mins in class & 15 mins Online Journal) Analyze a text & prepare a response Select vocabulary and expression (a list 25 words and phrases with sentences)2 **Catch up & Prepare notes for quiz 2**	Workshop Exercise	Review and complete assignments.	30
8 /	**Quiz 2: Lifestyle and Technology** **To what extent…?** Critical Thinking Paragraph 250 words **Catch up: Journals**	Conferencing and peer review *Personal Project*	Review and complete assignments.	30
9 /	**Unit 3: Medicine and Robots** Reading to Journal (15 mins in class & 15 mins Online Journal) Analyze a text & prepare a response Select vocabulary and expression (a list of 25 words and phrases with sentences).	Workshop Exercise	Review and complete assignments.	30
10 /	Reading to Journal (15 mins in class & 15 mins Online Journal) Analyze a text & prepare a response (advantages/disadvantages) **Catch up & Prepare notes for quiz 3.**	Workshop Exercise	Review and complete assignments.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	**Quiz 3:** Critical Thinking Paragraph 250 words Reading to Journal (15 mins online) **Catch up**	*Personal Project*	Review and complete assignments.	30
12 /	**Unit 4: Language and Culture** Reading to Journal (15 mins Online Journal) Topics relating to New Zealand study abroad (free choice) & Guest Speaker	Workshop Exercise	Review and complete assignments.	30
13 /	Reading to Journal (15 mins in class & 15 mins Online Journal) Research (interviews) and documentation Organize information	Workshop Exercise	Review and complete assignments.	30
14 /	Class presentation 5 mins	*Personal Project*	Review and complete assignments.	30
15 /	Post-Instruction assessment Reflections and Course Evaluation	Conferencing and review	Review and prepare for exam	30
16 /	Final Exam	Review & evaluate your progress	Review the final exam	30
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Reading and Writing II B Advanced	1	622600	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	REYNOLDS, Stephanie	Hakusanroku C 101.201		Monday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	The reading class is designed to help students become more efficient and effective in reading textbooks, required materials, and books. They will be able to improve vocabulary, comprehension, rate, and reading skills. In the writing class, students will exercise advanced literacy skills to organize ideas for academic writing. Students will also be able to use written organizational skills to share ideas with others using English.
2	Writing	
3	Vocabulary	
4	Grammar	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer group work, discussion, and reflection in class as a type of active learning. It will be divided into 5 sections; Reading Strategy, Grammar, Vocabulary, Extensive Reading, and Writing,

(Reading Strategy) In-class activities and exercises to practice academic reading skills.
(Grammar) In-class activities and exercises to practice sentence structure and word forms for academic writing.
(Vocabulary) Study sets, practice, and regular quizzes to measure growth of vocabulary understanding.
(Extensive Reading) Sustained silent-reading of 1 or more self-selected books at an independent reading level recorded in a reading log.
(Writing) In-class activities and exercises to practice grammar and organization of 4 types of paragraphs/essays.

You need to keep all your assignments and handouts in a folder.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books: Reflect: Reading & Writing 5 9780357448588 or Reflect: Reading & Writing 6 9780357448595
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to communicate about personal activities and events: work, school, daily life, and leisure. Can describe experiences and provide explanations, opinion, and plans. Can also ask questions, read simple instructions, and take directions.
Students can speak and write basic sentences in English to complete homework activities, to communicate with other students and the teacher.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	(R) Students will be able to improve academic reading skills.
②	i	(R) Students will be able to improve vocabulary knowledge.
③	i	(R) Students will be able to improve speed reading.
④	f,g,i	(W) Students will be able to make sentences, paragraphs, and essays in response to issues and themes.
⑤	f,g,i	(W) Students will be able to use comparison, narration, persuasion, process, problem solution and description.
⑥	i	(W) Students will be able to practice writing by studying samples using templates.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		10	65	25	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	55	15	0	0	0	0	80
	Ability to think, reason and create	0	10	10	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	10% Final exam (academic English proficiency test) including TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	30% : (Reading Strategy) In-class assignments focusing on reading skills and word forms 10% (Grammar) In-class assignments focusing on grammar and sentence structure. 15% : (Vocabulary) 5 quizzes will be given in classes 1, 3,7, 11, 15. 10% : (Extensive Reading Log) Students will read self-selected books/articles for homework 30 minutes each week for a total of 8 hours over 15 weeks. Feedback and graded assignments will be returned in class and/or online in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	25%: Students will write 4 original, distinct writing tasks, which will be graded according to the following criteria: Writing Process, Task Achievement, Cohesion and Coherence, Vocabulary, Grammar, Format. Students will submit drafts in class and typed assignments online, before the next class period. Verbal and written feedback will be given in writing conferences with the teacher during the following class.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can apply reading skills to understand academic and non-academic texts. Students can write and organize ideas logically.	Students can use reading skills to understand reading materials in and out of class. Students can express ideas based on a controlling idea.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction: Students will read the syllabus. Reading: Unit 5 Reading 1 Writing: Grammar Quiz 1	Individual and group exercises. Discussion	Read the syllabus. Complete unfinished assignments Extensive Reading Log	30
2 /	Reading: Unit 5 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
3 /	Reading: Quiz 2 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
4 /	Reading: Extensive Reading Writing: Feedback and Revision	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
5 /	Reading: Unit 6 Reading 1 Writing: Grammar	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
6 /	Reading: Unit 6 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
7 /	Reading: Quiz 3 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
8 /	Reading: Extensive Reading Writing: Feedback and Revision	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
9 /	Reading: Unit 7 Reading 1 Writing: Grammar	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
10 /	Reading: Unit 7 Reading 2 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Reading: Quiz 4 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
12 /	Reading: Extensive Reading Writing: Feedback and Revision, Grammar	Individual and group exercises. Discussion and peer conferencing.	Complete unfinished assignments Extensive Reading Log	30
13 /	Reading: Unit 8 Reading 1 Writing: Analyze the Model	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
14 /	Reading: Unit 8 Reading 2 Writing: Plan and Write	Individual and group exercises. Discussion	Complete unfinished assignments Extensive Reading Log	30
15 /	Reading: Quiz 5 Writing: Feedback and revision	Discussion and peer conferencing. Review and evaluate your progress and understanding.		30
16 /	Final Exam	Review and evaluate your progress and understanding.	Review the final exam.	30
17 /	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Listening and Speaking II B (Basic)	1	622700	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	STEVENSON, Ian	Hakusanroku C.: 101.201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Listening	Students will develop oral communication abilities for classes taught in academic English and to be able to function socially in an English-speaking environment. Students will be able to talk about things they like/dislike, their hobbies and to describe people, things, events, and places using a variety of vocabulary and grammatical structures. Also, students will improve their understanding of topics and vocabulary used in their classes.
2	Speaking	
3	Communication	
4	Study skills	
5	Presentation skills	

Course Description and Expectations for Students (10.5pt)

This course will offer group work and discussion, problem solving, discovery and experiential learning as a type of active learning. This course emphasizes the use of basic English language for oral communication. Its main purpose is for students to be able exercise literacy skills including, speaking and listening and notetaking for learning in their academic classes. Students will also be able to interact with others using English. This course will be taught through the last 5 units of the textbook.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: *Perspectives 4 (Advanced): National Geographic Learning* by (Eds). Lewis Lansford, Daniel Barber, Amanda Jefferies. ISBN 978-1-337-27715-0

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Intermediate English listening and speaking ability.

No.	Program Objectives	Target Abilities for Students (9pt)
①	f	Students will be able to greet and introduce themselves to new acquaintances and talk about emotions.
②	f	Students will be able to discuss and give opinions about hobbies, sports, and travel.
③	d, h	Students will be able to discuss and describe food, photos, work, shopping, and the human body.
④	f, i	Students will be able to set goals, make agree and disagree statements, and ask questions.
⑤	g, f, i	Students will be able to discuss past events and ask for, and make recommendations.
⑥	d, f	Students will be able to discuss time, explain causes, and give reasons.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	50	25	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	25	5	5	0	0	0	35
	Ability to think, reason and create	0	0	5	5	0	0	0	10
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	25	5	5	0	0	0	35
	Attitude and motivation for learning	0	0	5	5	0	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	∠	There will be Proficiency Quizzes in lessons 7 and 14. Quizzes will use IELTS-style questions. Quizzes are designed to show the progress of students' English ability during the semester. Each quiz will have a target score required to pass. Failure to achieve the minimum target score will require the student to take a retest. Quizzes will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Reports	①	∠	Students will do grammar, listening, speaking and vocabulary activities in each unit, which will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Presentations	①	∠	There will be presentation activities in each unit. These activities will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will collaborate effectively to complete projects on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will collaborate to complete projects to a reasonable standard. Students will respond to most feedback and will occasionally seek help.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introductions: Teacher, Syllabus, Classroom tools and expectations. Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
2 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
3 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
4 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
5 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
6 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
7 /	Progress Quiz 1	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
8 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
9 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
10 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
12 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
13 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
14 /	Progress Quiz 2	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
15 /	Wrap Up and Review Focus: Reflection on semester	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Listening and Speaking II B (Adv)	1	622700	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	BARNETSON, Hamish	Hakusanroku C.: 101.201		Tuesday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Listening	Students will develop oral communication abilities for classes taught in academic English and to be able to function socially in an English-speaking environment. Students will be able to talk about things they like/dislike, their hobbies and to describe people, things, events, and places using a variety of vocabulary and grammatical structures. Also, students will improve their understanding of topics and vocabulary used in their classes.
2	Speaking	
3	Communication	
4	Study skills	
5	Presentation skills	

Course Description and Expectations for Students (10.5pt)

This course will offer group work and discussion, problem solving, discovery and experiential learning as a type of active learning. This course emphasizes the use of basic English language for oral communication. Its main purpose is for students to be able exercise literacy skills including, speaking and listening and notetaking for learning in their academic classes. Students will also be able to interact with others using English. This course will be taught through the last 5 units of the textbook.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: *Perspectives 4 (Advanced): National Geographic Learning* by (Eds). Lewis Lansford, Daniel Barber, Amanda Jefferies. ISBN 978-1-337-27715-0

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Advanced English listening and speaking ability.

No.	Program Objectives	Target Abilities for Students (9pt)
①	f	Students will be able to greet and introduce themselves to new acquaintances and talk about emotions.
②	f	Students will be able to discuss and give opinions about hobbies, sports, and travel.
③	d, h	Students will be able to discuss and describe food, photos, work, shopping, and the human body.
④	f, i	Students will be able to set goals, make agree and disagree statements, and ask questions.
⑤	g, f, i	Students will be able to discuss past events and ask for, and make recommendations.
⑥	d, f	Students will be able to discuss time, explain causes, and give reasons.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	50	25	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	25	5	5	0	0	0	35
	Ability to think, reason and create	0	0	5	5	0	0	0	10
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	25	5	5	0	0	0	35
	Attitude and motivation for learning	0	0	5	5	0	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	∠	There will be Proficiency Quizzes in lessons 7 and 14. Quizzes will use IELTS-style questions. Quizzes are designed to show the progress of students' English ability during the semester. Each quiz will have a target score required to pass. Failure to achieve the minimum target score will require the student to take a retest. Quizzes will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Reports	①	∠	Students will do grammar, listening, speaking and vocabulary activities in each unit, which will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Presentations	①	∠	There will be presentation activities in each unit. These activities will be graded and returned with feedback by the following lesson.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥	∠	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will collaborate effectively to complete projects on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will collaborate to complete projects to a reasonable standard. Students will respond to most feedback and will occasionally seek help.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introductions: Teacher, Syllabus, Classroom tools and expectations. Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
2 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
3 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
4 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
5 /	Textbook Units 6, 7 & 8	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
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7 /	Progress Quiz 1	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
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9 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
10 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
12 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
13 /	Textbook Units 9, 10 & Review	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
14 /	Progress Quiz 2	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30
15 /	Wrap Up and Review Focus: Reflection on semester	Stations; textbook; worksheets; online activities; individual, pair, and group activities.	Completion of unfinished classwork and preparation for quiz	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	Overseas English Program	2	622800	Intensive	Experiment / Practice

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	Akihiro TSUDA	Hakusanroku C. 101-201		

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Practical English proficiency	Participation in classes and extracurricular activities abroad is designed to cultivate practical English proficiency applicable across diverse facets of daily living. Moreover, through engagement with local inhabitants and international peers from diverse backgrounds, participants are afforded opportunities for cultural exchange, fostering a global perspective and refining interpersonal communication competencies.
2	Daily living	
3	Cultural exchange	
4	Global perspective	
5	Interpersonal communication	

Course Description and Expectations for Students (10.5pt)

Experiential Learning
Maximize the benefits of your study abroad experience by developing the confidence to communicate effectively in both spoken and written English. This program is particularly suited for students seeking to engage in academic language studies.

Immersion Lessons
General language lessons focus on reinforcing grammar and expanding vocabulary through an integrated approach combining digital tools and interactive classroom activities. Additionally, project-based sessions allow you to enhance your learning and communication skills through hands-on, interest-driven activities tailored to your personal goals.

This course is conducted through EF(Education First).
There are subjects like General Language and SPIN, and in the General course, there are classes for 17 hours per week.
Extracurricular activities are also added.
The requirement for earning credits is to receive a completion certificate from the EF program.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

The participation requirement for this course is that there are no unearned credits for subjects in the first year of study.
Students must have passed all courses in the first year of study.

No.	Program Objectives	Target Abilities for Students (9pt)
①	i	Students will be able to improve their English communication skills
②	e	Students will be able to deepen their cultural understanding
③	i	Students will be able to pursue academic achievements
④	d	Students will be able to build an international network
⑤	c	Students will be able to enhance their personal growth and self-expression skills
⑥	g	Students will be able to acquire problem-solving skills in cross-cultural contexts

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	0	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	0	0	0	0
	Ability to think, reason and create	0	0	0	0	0	0	0	0
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class managemen

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	English Certificate Training	1	622900	First Intensive	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	UTSUNOMIYA, Takako STEVENSON, Ian BARNETSON, Hamish	Hakusanroku C: 101.201		TBD

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Reading	Students will develop their abilities in the 4 skills assessed by IELTS, through a variety of activities. These activities include, but are not limited to, exam preparation, exercises, worksheets, projects, etc.
2	Writing	
3	Listening	
4	Speaking	
5	IELTS	

Course Description and Expectations for Students (10.5pt)

This course will offer group work, problem solving, discovery, and experiential learning in class as types of active learning. Demonstrating a range of English language abilities is important for students' future goals including universities, colleges, and workplaces around the world. This course covers the specific skills and tasks for IELTS preparation: Listening, Reading, Writing, and Speaking. Students will participate in sessions towards improving students' accuracy and fluency through active learning and use of English via in and out of class activities, assignments, and projects.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks: [Reading & Writing] *IELTS Express* Upper-intermediate Coursebook (Cengage) ISBN:9781133313021
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Intermediate English ability

No.	Program Objectives	Target Abilities for Students (9pt)
①	h, i	Ss will be able to analyze various forms of visual data, explaining and comparing key points.
②	h, i	Ss will be able to develop new vocabulary.
③	h, i	Ss will be able to develop test-taking skills for a range of reading comprehension questions.
④	a, i, g, h	Ss will be able to design and carryout a series of benchmark tasks.
⑤	a, i, g, h	Ss will be able to combine the tasks to complete a self-designed project.
⑥	a, i, g, h	Ss will be able to develop test taking abilities through tasks and activities.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	50	25	0	25	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	10	5	0	0	0	15
	Ability to think, reason and create	0	0	10	5	0	10	0	25
	Collaboration and leadership	0	0	10	5	0	0	0	15
	Announcement / Expression / Communication	0	0	10	5	0	10	0	25
	Attitude and motivation for learning	0	0	10	5	0	5	0	20

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✓	Reading & Writing (25%) In-class worksheets or assignment handouts for class preparation and review. Feedback will be given in the next class session. Listening & Speaking (25%) In class activities for practice, review and preparation. Feedback will be given in class.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		Listening & Speaking (25%) Plan, design and complete a series of bench marked activities to demonstrate achievement and learning. Feedback will be given in class.
	②		
	③		
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	Reading & Writing (25%) Understanding the structure and layout of the reading materials. Writing about visual data in a time limit. Feedback will be given in the next class session.
	②	✓	
	③	✓	
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Ss will significantly improve their skills in Reading, Writing, Listening and Speaking. They will demonstrate their improvement via a variety of tasks and assessments.	Ss will improve their skills in Reading, Writing, Listening and Speaking. They will demonstrate their improvement via a variety of tasks and assessments.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Reading and Writing #1	This includes but is not limited to: Worksheets, Exercises, etc.	Review: Ss will review previously acquired Reading and Writing skills and abilities	30
2 /	Listening and Speaking #1	This includes but is not limited to: Discussion, Pair work, etc.	Ss will review previously learned Listening and Speaking skills	30
3 /	Reading and Writing #2	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
4 /	Listening and Speaking #2	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
5 /	Reading and Writing #3	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
6 /	Listening and Speaking #3	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
7 /	Reading and Writing #4	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
8 /	Listening and Speaking #4	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
9 /	Reading and Writing #5	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
10 /	Listening and Speaking #5	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Reading and Writing #6	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
12 /	Listening and Speaking #6	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
13 /	Reading and Writing #7	This includes but is not limited to: Worksheets, Exercises, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
14 /	Listening and Speaking #7	This includes but is not limited to: Discussion, Pair work, etc.	Preview: Ss will practice skills and topics studied in the previous class Review: Ss will review activities completed in class	30
15 /	Review, Wrap up and Reflect	Final Assessment: TBD		

令和7年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科目名	単位	科目コード	開講時期	授業形態
国際理工学科 一般科目 選択	歴史文化II（日本語）	1	623700	前学期	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	上田　清史	白山麓C 101.201		月曜日・木曜日 16：30 - 17：30

授業科目の学習教育目標

キーワード		学習教育目標
1	白山地域	この授業は白山地域の歴史文化とこの地域の事象から見た日本歴史と文化を探求する。またその自然環境や地域社会に関心を持ち、解決方法を提案するために、地域の現状や問題点を正確に 把握する。さらに白山地域の学習を追求することにより、学生は自らの行動の礎となる理念を養う。
2	歴史文化	
3	自然環境	
4	地域社会	
5	震災	

授業の概要および学習上の助言

地域社会はさまざまな構成要素によって成り立っている。学生が学び生活する白山地域の歴史，文化，信仰，生活習慣，産業，地形，自然などを総合的に学ぶことにより，地域社会への興味・関心を高め，地域とのふれあいを意識し，地域社会と協働する取り 組みに向けた基礎力を身につける。また，地域社会のテーマを学習することを通して，学習の方法を修得することにより，多様な 社会やそこに存在する問題にもアプローチできるスキルを身につけ，社会的課題解決に向けての使命感を養う。

学生は自主的に五つの課題に取り組み、この基礎知識をもとに期末試験に備えてもらいます。また、クラス内で二回の発表があるので教員の指示に従ってテーマの選定と発表に向けての準備（リサーチを含む）を主体的に行ってもらいます。

【教科書および参考書・リザーブドブック】
教科書：ハンドアウト
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

日本語を読み書きする能力（日本の高校生レベル）
歴史文化IA（日本語）
歴史文化IB（日本語）

№	教育目標(DP)（記号表記）	学生が達成すべき行動目標
①	b, e	白山地域の持つ歴史や文化の特色を理解し、共有することができる
②	b, e	白山地域の自然環境や地域社会に関心を持ち現状を理解することができる
③	b, e	白山地域の事象から日本の歴史・文化を考え理解する事ができる
④	a, b, e,	地域社会の持つ問題点を正確に捉えることができる
⑤	a, b, g, h	地域社会の持つ門題点を解決する方法を考える事ができる
⑥	b, c, e, i	白山地域の学習を通じて、自らの行動の礎となる理念を養うことができる

達成度評価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作品	ポートフォリオ	その他	合計
総合評価割合		20	0	20	40	0	20	0	100
総合力指標	知識を取り込む力	8	0	5	10	0	5	0	28
	思考・推論・創造する力	4	0	8	15	0	5	0	32
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	8	0	7	10	0	5	0	30
	学習に取組む姿勢・意欲	0	0	0	5	0	5	0	10

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評 価 方 法	行動目標		評 価 の 実 施 方 法 と 注 意 点
試 験	①	✔	定期試験。論述式問題の答案を４つの基準から評価する。①「歴史の流れ」に対する理解度。②解答の内容における史実の正確性。③試験問題に対する解答の関係性と論理性。④簡潔な文と文章構成。（20%）
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
クイズ 小テスト	①		
	②		
	③		
	④		
	⑤		
	⑥		
レポート	①	✔	５つの課題：効果的な「考え方」や「書き方」などを説明する。 課題は授業で配布され次の授業の始まりに提出する。翌週の授業までに採点され返却される。（20%）
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
成果発表 （口頭・実技）	①		二回のグループ発表：学期中に１回と学期末に１回。学生は教員と相談した上で白山地域の問題点 と解決策に関する発表を行う。 グループ発表の次の点を評価する：内容、スタイル（方法）、パワーポイントなどの補助資料、資料（史料）の提示、各発表者がグループ内で果たした役割など。翌週の授業までに発表の評価を受 ける。（20%＋20%＝40%）
	②		
	③		
	④	✔	
	⑤	✔	
	⑥	✔	
作 品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①	✔	ポートフォリオにはリフレクションペーパー・配布資料（メモを取ること）・５つの課題・発表の 補助資料（２点）や関係のある場合はその他を添えること。これらを「学習に取り組む姿勢・意 欲」などと総合的に評価する。これは学期末に提出する。（20%）
	②	✔	
	③	✔	
	④	✔	
	⑤	✔	
	⑥	✔	
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
白山地域の持つ歴史や文化の特色を理解し、共有することができる 白山地域の自然環境や地域社会に関心を持ち現状を理解することができる 白山地域の事象から日本の歴史・文化を考え理解する事ができる 地域社会の持つ問題点を正確に捉えることができる 地域社会の持つ門題点を解決する方法を考える事ができる 白山地域の学習を通じて、自らの行動の礎となる理念を養うことができる	白山地域の持つ歴史や文化の特色に触れ学ばせていただく。 白山地域の自然環境や地域社会と出会い現状と向き合う。 白山地域の深い歴史文化の一端に触れさせてもらう。 地域社会の持つ問題点の一部を教示していただく。 地域社会の持つ問題点の一部に真摯に取り組む姿勢を持つ。 白山地域の学習を通じて、困難な問題に取り組む心を養う。

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	白山地域の位置づけ：白山地域の地理的な位置づけを理解する。 学生達が生活する白山地域の地形、自然を学ぶことにより、地域社会、自然環境の興味関心を高めるとともに、 地域や自然を敬う気持ちを涵養する	白山地域の地理的な位置づけを講義する	白山地域の地理的な位置づけを調べる 授業内容を確認する	30 15
2 ／	白山地域の自然と環境① 白山地域の自然環境の特色を理解する	白山地域の地形・資源について講義する 課題①を配布する	白山地域の地形を調べる。 授業内容を確認する	30 15
3 ／	白山地域の自然と環境② 白山地域の自然環境の特色を理解し、自然環境保護問題について考える	白山の動植物と自然環境保護の取り組みについて講義する 課題①を提出する	白山の動植物について調べる 授業内容を確認する。	30 15
4 ／	白山地域の信仰① 白山地域を通じて日本の信仰を理解する 白山地域での信仰の在り方を学び、地域の宗教や信仰の多様性や独自性を知る。 日本の「中世」と山岳信仰を通して「日本人の宗教観」を考える	白山の信仰について講義する	白山信仰について調べる 授業内容を確認する	30 15
5 ／	白山地域の信仰② 白山山岳信仰と東アジア	白山と他の地域の信仰について講義する 課題②を配布する	白山信仰と他の地域の信仰を比較する 授業内容を確認する。	30 15
6 ／	白山地域の生活・文化：白山地域の人々の生活や文化を理解する 山岳部での人々の生活を考える	白山地域の人々の生活や文化について講義する 課題②を提出する	白山地域の人々の生活や文化を調べる 授業内容を確認する	30 15
7 ／	中間・発表 白山地域の持つ問題点 白山地域の持つ問題点をグループ討議で明らかにする	白山地域を総合的に学習した 上で、グループ討議により地域の持つ問題点及び解決策を探る。	各自で問題点を考える 発表の準備をする	60 45
8 ／	白山地域から見る日本の歴史① 白山地域から日本の戦国社会を考える 白山地域と日本全体の歴史を比較しながら学ぶことにより、地域の事象を広い視点で捉える方法を学ぶ。また、場所や時代の違いによる、多様な価値観や社会の変遷を知る。	日本の戦国社会について講義する。 課題③を配布する 課題③を提出する	戦国日本について調べる 授業内容を確認する	30 15
9 ／	白山地域から見る日本の歴史② 白山地域から日本の近世社会を考える 白山と城下町・金沢の成立とその重要性について	日本の近世社会について講義する 課題④を配布する	近世の日本について調べる 授業内容を確認する	30 15
10 ／	白山地域から見る日本の歴史③ 白山地域から日本の近・現代社会を考える 近代化の抱える諸問題を通して	日本の近・現代社会について講義する 課題④を提出する	近現代の日本について調べる 授業内容を確認する	30 15

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	白山地域の産業 白山地域で行われる産業について理解する。 白山地域の産業や生活・文化を通して、地域の持つ課題や文化の多様性を知る	白山地域で行われている産業について講義する	白山地域の産業について調べる。 授業内容を確認する	30 15
12 ／	石川県における自然災害について考える 令和六年・能登大震災を中心に	能登大震災について講義する 課題⑤を配布する	能登大震災について調べる 授業内容を確認する	30 15
13 ／	震災後の石川県の復興について考える	被災地の復興について講義する 課題⑤を提出する	復興について調べる 授業内容を確認する	30 15
14 ／	白山地域の抱える諸問題を通して今後の日本を考える	この地域の現状を通して今後の日本が直面する諸問題について講義する	現在と今後の日本について考える。 授業内容を確認する	60 45
15 ／	問題点と改善案の発表① 問題点・解決策を発表し、他の人に的確に伝える	グループの解決策を発表し、他のグループ発表の内容 について検討する	各自で解決策を考え、発表の準備を行う 他の発表の内容について考える	60 45
16 ／	定期試験	学生の科目に対する全体 的な理解を評価する	授業内容を学習する 試験内容・結果を確認する	60 15
17 ／	自己点検			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	History and Culture II (English)	1	623800	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	UEDA, Kiyoshi	Hakusanroku.C 101.201		Monday and Thursday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Hakusan Region	This course guides students in exploring the history/culture of Hakusan region and Japanese history/culture via regional phenomena. It leads them to develop an interest in the natural environment and local communities to accurately assess their current circumstances and issues in hope of suggesting solutions. Students will also learn to nurture a set of principles as a foundation for their actions by studying the region.
2	History and Culture	
3	Nature and Environment	
4	Local Community	
5		

Course Description and Expectations for Students (10.5pt)

Local communities consist of a number of components. This course will guide students in learning basic skills to cooperate with the various local communities of the Hakusan region by comprehensively exploring the history, culture, religion, livelihood, industry, geography, and natural environment of Mt. Hakusan where they live and learn. The course will also nurture a sense of mission in finding solutions for social issues as students reach out to diverse communities in the region.

Students will independently work on five assignments, preparing themselves for the final exam according to basic knowledge they acquire from these assignments and lectures. Also, two presentations will take place in class; students are expected to take the initiative in selecting a topic and preparing (including research) for them.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks: Handout
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to read and write English language (at the high-school level)
History and Culture IA (English) and History and Culture IB (English)

No.	Program Objectives	Target Abilities for Students (9pt)
①	b, e	Students will understand the characteristics of the history/culture of Hakusan region and share them.
②	b, e	Students will develop an interest in the natural environment and local communities of Hakusan region, thus learning to understand their present circumstances.
③	b, e	Students will be able to think about/understand Japanese history/culture via the phenomena of Hakusan region.
④	a, b, e	Students will be able to grasp issues of the local communities accurately.
⑤	a, b, g, h	Students will be able to develop solutions to the problems of local communities.
⑥	b, c, e, i	Students will nurture a set of principles as a foundation for their actions by studying Hakusan region.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		20	0	20	40	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	8	0	5	10	0	5	0	28
	Ability to think, reason and create	4	0	8	15	0	5	0	32
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / expression / communication	8	0	7	10	0	5	0	30
	Attitude and motivation for learning	0	0	0	5	0	5	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✔	Final Examination. Answers to essay-type questions will be evaluated on the basis of 4 criteria. First, a level of comprehension of the "course of history." Second, the accuracy of historical facts in the contents of an answer. Third, the relevance and logic of answers to the examination question. Fourth, the use of concise sentences and good textual structure. (20%)
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✔	There will be five assignments; the instructor will explain "how to think" and "how to write" effectively. Each assignment will be distributed in class and submitted at the beginning of the next class. Assignments will be evaluated and returned the following week. (20%)
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
Presentations	①		There will be two presentations: one in the middle of the semester and one at the end of the semester. Students will make group presentations on issues challenging the Hakusan region and solutions to them in consultation with the instructor. Group presentations will be evaluated on the following points: contents, style (method), supporting material such as power-point presentations, the indication of sources, the role of an individual presenter for the group, etc. The presentation will be evaluated and returned the following week. (20％＋20％＝40％)
	②		
	③	✔	
	④	✔	
	⑤	✔	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✔	Portfolio must include reflection paper, all handouts, 5 assignments, supporting material for one presentation, and others when relevant. Work will be comprehensively evaluated, together with the student's "volition and attitudes toward learning." Students will submit the portfolio with a reflection paper by the end of the semester. (20%)
	②	✔	
	③	✔	
	④	✔	
	⑤	✔	
	⑥	✔	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students can understand the characteristics of the history/culture of Hakusan region and share them; ・show an interest in the natural environment and local communities of Hakusan region, thus understanding their present circumstances; ・think about/understand Japanese history/culture via the phenomena of Hakusan region; ・grasp issues of local communities; ・develop solutions to the problems of local communities; ・nurture a set of principles as a foundation for their actions by studying Hakusan region.	Students can learn the characteristics of the history/culture of Hakusan region by being exposed to them; ・encounter the natural environment and local communities of Hakusan region and face present circumstances; ・experience a part of the profound history of Hakusan region; ・seek guidance in identifying some of the issues of local communities; ・work on some of the issues with which local communities struggle; ・nurture their hearts (kokoro) to challenge difficult problems through the study of Hakusan region.

Course Schedule

* The standard time required for the specified assignment is provided in the "Time" column of the assignments. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Geographical positioning of Hakusan region, explaining the geographical location of Hakusan region. Students will develop an interest in the natural environment and a sense of respect for Hakusan region and its nature by learning about the geography and nature of the region where they reside.	Lecture on the geographical location of Hakusan region.	Study the geographical location of Hakusan region. Review course content.	30 15
2 /	Nature and environment of Hakusan region. ① Students will understand particularities of the natural environment of Hakusan region.	Lecture on the geography and resources of Hakusan region. Distribute assignment ①	Study the geography of Hakusan region. Review course content.	30 15
3 /	Nature and environment of Hakusan region. ② Students will understand particularities of the natural environment of Hakusan region and consider the issue of preserving the natural environment.	Lecture on plants and animals in Hakusan region and preservation of natural environment. Submit assignment ①	Study plants and animals in Hakusan region. Review course content.	30 15
4 /	Worship in Hakusan region. ① Students will study modes of worship in Hakusan region and understand the diversity and characteristics of religion/worship in the region. Students will understand “Japanese attitudes towards religion” through Japan’s medieval period and mountain worship.	Lecture on Hakusan worship.	Study Hakusan worship. Review course content.	30 15
5 /	Worship in Hakusan region. ② Students will understand Japanese religion through the history of Hakusan region, Hakusan mountain worship and East Asia.	Lecture comparing the worship of Hakusan with other areas. Distribute assignment ②	Compare the worship of Hakusan with other areas. Review course content.	30 15
6 /	Livelihood and culture of Hakusan region. Students will understand the livelihood and culture of the people of Hakusan region.	Lecture on the livelihood and culture of Hakusan region. Submit assignment ②	Study the cultural heritage of Hakusan region. Review course content.	30 15
7 /	Presentation (1) Regional issues in Hakusan. Highlight the issues faced by Hakusan region and develop solutions through group discussion.	Explore a solution for the issues faced by Hakusan region through discussion. Distribute assignment ③	Examine regional issues. Prepare presentations. Summarize the issues through group discussion。	60 45
8 /	Japanese history from the standpoint of Hakusan region. ① Students will learn how to put the local phenomena of Hakusan region in a broader perspective. Study the diversification of value systems and social transformations in different locations and time-periods. Students will understand Sengoku society of Japan through the history of Hakusan region.	Lecture on Sengoku society in Japan. Submit assignment ③	Study Sengoku society of Japan. Review course content.	30 15
9 /	Japanese history from the standpoint of Hakusan region. Students will understand early-modern society of Japan through the history of Hakusan region, including Hakusan and its significance to the establishment of Kanazawa as a castle town.	Lecture on early-modern society of Japan. Distribute assignment④	Study early-modern Japan. Review course content.	30 15
10 /	Japanese history from the standpoint of Hakusan region. Students will understand modern/contemporary society of Japan through the history of Hakusan region and various issues of modernization	Lecture on modern/ contemporary society of Japan. Submit assignment ④	Examine modern/ contemporary Japan. Review course content.	30 15

Course Schedule

* The standard time required for the specified assignment is provided in the "Time" column of the assignments. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Industry in Hakusan region. Students will understand local industries of Hakusan region. Learn the issues and understand the cultural diversity of Hakusan region by studying its industry, livelihood, and culture.	Lecture on local industries of Hakusan region.	Study industries in the Hakusan region. Review course content.	30 15
12 /	Natural disasters in Ishikawa prefecture: the Noto Great Earthquake of 2024.	Lecture on the Noto Great Earthquake. Distribute assignment⑤	Study the Noto Great Earthquake. Review course content.	30 15
13 /	Reconstruction of Ishikawa prefecture after the earthquake.	Lecture on disaster-stricken areas. Distribute assignment⑤	Study the reconstruction. Review course content.	30 15
14 /	Predicting Japan’s future by examining various issues the Hakusan region is facing.	Lecture on various issues Japan will face in the future through the current conditions of this region.	Examine Japan today and in the future. Review course content	30 15
15 /	Presentation on regional issues and improvement plans. Make a presentation on an issue (or issues) and offer a solution.	Present a group solution and assess the content of other groups’ presentations.	Each student explores a solution. Come up with a group solution. Prepare a group presentation. Assess the content of other groups’ presentations critically.	60 45
16 /	Final Exam	Evaluate students’ overall understanding of the subject.	Study overall course content. Review the content of the exam.	50 10
17 /	Self-check			

令和7年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科目名	単位	科目コード	開講時期	授業形態
国際理工学科 一般科目 選択	社会科学（日本語）	1	624000	後学期	講義／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	上田　清史	白山麓 101.201		月曜日・木曜日 16：30―17：30

授業科目の学習教育目標

キーワード		学習教育目標
1	近現代史	世界の色々な地域における諸事象を地理的かつ歴史的観点からとらえることによって学生にとっての「今」をより理解できる「物の見方」を養ってゆく。将来日本や海外で活動するために諸地域に関する基礎知識を習得するとともに、これらの地域と日本の歴史的関わりについても学んでゆく。
2	国際関係・国際情勢	
3	地理	
4	紛争	
5	平和	

授業の概要および学習上の助言

この授業では「現在」の出来事の成り立ちや原因を究明し理解するため「過去」にさかのぼり考察する。同時に「現在」と「過去」をより理解するために世界各地の地理的条件に関する基本知識を身につけてゆく。またこれらの地理的条件から「人間はなぜ歴史から学ばず同じこと（成功と失敗）を繰り返すのか？」という大きな問いにも考えをめぐらしてゆく。これによって現在の国際関係を動かす力学の一端に触れてゆく。学生には貴重な情報を提供する資料としての地図を「読む」ことを始め、同時に国内外のメディア報道から世界各地の情勢を知るなかで、根拠が示された歴史書を紐解くことが日々の習慣となるように努力を始めてほしい。

学生は自主的に五つの課題に取り組み、この基礎知識をもとに中間テストと期末試験に備えてもらいます。また、クラス内の発表があるので教員の指示に従ってテーマの選定と発表に向けての準備（リサーチを含む）を主体的bに行ってもらいます。この授業では国語（日本語）で世界の地政学を学ぶので、国語での読み書きにしっかりと向き合い、そこから得た確かな知識を土台に国際的観点から世界と日本を考える姿勢を身に付けてください。

【教科書および参考書・リザーブドブック】
教科書：配布プリント
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

日本語を読み書きする能力（日本の高校生レベル）
歴史文化IA（日本語）と歴史文化IB（日本語）
歴史文化IIA（日本語）

No.	教育目標(DP)（記号表記）	学生が達成すべき行動目標
①	b,e	東アジアにおける国際関係を歴史的かつ地理的観点から説明することができる。
②	b,c	「インド」を歴史的かつ地理的観点から理解し今後の国際社会での役割を説明できる
③	b,c	「中近東」を歴史的かつ地理的観点から理解し現在に続く諸問題を説明できる。
④	a,b,e	旧・大英帝国とその遺産を歴史的かつ地理的観点から理解し現在の国際社会の土台を説明することができる。
⑤	a,b,g,h	ロシアと周辺国との関係を歴史的かつ地理的観点から理解し今後の国際社会の動向を説明できる。
⑥	e,c,e,i	北極を歴史的かつ地理的に理解し今後の国際社会に与える影響を説明できる。

達成度評価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作品	ポートフォリオ	その他	合計
総合評価割合		20	20	20	20	0	20	0	100
総合力指標	知識を取り込む力	8	8	5	5	0	5	0	31
	思考・推論・創造する力	4	4	8	8	0	5	0	29
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	8	8	7	7	0	5	0	35
	学習に取組む姿勢・意欲	0	0	0	0	0	5	0	5

総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①	✔	定期試験。論述式問題の答案を四つの基準から評価する。①「歴史の流れ」と「地理的条件」に対する理解度。②解 答に内容における史実と事実（ファクト）の正確性。③試験問題に対する解答の関係性と論理性。④簡潔な文と文章構成。（20%）
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
クイズ 小テスト	①	✔	中間テスト。論述式問題の解答を四つの基準から評価する。①「歴史の流れ」と「地理的条件」に対する理解度。② 解答の内容における史実と事実（ファクト）の正確性。③試験問題に対する解答の関係性と論理性。④簡潔な文と文章 構成。翌週の授業までに採点され返却される。（20%）
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
レポート	①	✔	５つの課題：効果的な「考え方」や「書き方」などを指導する。 課題は次の授業の 始まりに提出する。翌週の授業までに採点され返却される。（20%）
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
成果発表 （口頭・実技）	①		１回の発表：教員と相談した上で「歴史の流れ」と「地理的条件」に関するテーマを決定する。 個人発表の次の点を評価する：内容、スタイル（方法）、パワーポイントなどの補助資料、資料（史料）の 提示など。翌週の授業までに発表の評価を受ける。（20%）
	②		
	③		
	④	✔	
	⑤	✔	
	⑥	✔	
作品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①	✔	ポートフォリオにはリフレクションペーパー・配布資料（メモを取ること）・５つの課題・中間テ スト・発表の補助資料（１点）や関係のある場合はその他を添えること。これは学期末（最後の授 業）に提出する。（20%）
	②	✔	
	③	✔	
	④	✔	
	⑤	✔	
	⑥	✔	
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
- 東アジアにおける国際関係を歴史的かつ地理的観点から説明することができる。 - 「インド」を歴史的かつ地理的観点から理解し今後の国際社会での役割を説明できる。 - 「中近東」を歴史的かつ地理的観点から理解し現在に続く諸問題を説明できる。 - 旧・大英帝国とその遺産を歴史的かつ地理的観点から理解し現在の国際社会の土台を説明することができる。 - ロシアと周辺国との関係を歴史的かつ地理的観点から理解し今後の国際社会の動向を説明できる。 - 北極を歴史的かつ地理的に理解し今後の国際社会に与える影響を説明できる。	- 東アジアにおける国際関係の歴史とその地理的条件についての基礎知識を学ぶ。 - 現在の「インド」に至る歴史とその地理的条件についての基礎知識を学ぶ。 - 「中近東」の歴史とその地理的条件についての基礎知識を学ぶ。 - 旧・大英帝国の歴史とその地理的条件の基礎知識を学ぶ。 ロシアと周辺諸国の歴史とその地理的条件の基礎知識を学ぶ。 ―北極の歴史や地理的条件の基礎知識を学ぶ。

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	イントロダクション	地理・歴史・国際関係について講義する。	ノート（プリント）を見直して補完する。	30 10
2 ／	中国	中国が直面する諸問題について講義する。 課題①を配布する	ノート（プリント）を見直して補完する。	30 10
3 ／	朝鮮半島	朝鮮半島をめぐる諸問題について講義する。 課題①を提出する	ノート（プリント）を見直して補完する。	30 10
4 ／	東南アジア	多様性のある東南アジア地域の抱える諸問題について講義する。 課題②を配布する	ノート（プリント）を見直して補完する。	30 10
5 ／	南アジア：「インド」を中心に	インドの重要性と諸問題について講義する。 課題②を提出する	ノート（プリント）を見直して補完する。	30 10
6 ／	「中近東」	中近東の重要性と諸課題について講義する。 課題③を配布する	ノート（プリント）を見直して補完する。	30 10
7 ／	アフリカ大陸	アフリカ大陸の歴史とこの大陸が持つ可能性と諸問題について講義する。 課題③を提出する	ノート（プリント）を見直して補充する。	30 10
8 ／	植民地政策の遺産：旧・大英帝国を中心に	旧・大英帝国が残した遺産についていくつかの国の例を挙げて講義する。	ノート（プリント）を見直して補完する。	60 10
9 ／	ロシアと東ヨーロッパ（バルカン半島を含む） 中間テスト（60分）	ロシアの対外政策と周辺国との関係について講義する。	ノート（プリント）を見直して補完する。 授業内容を学習する。 試験内容・結果を確認する	30 10
10 ／	北極	北極をめぐる諸問題について講義する。 課題④を配布する	ノート（プリント）を見直して補完する。	30 10

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	北・南アメリカ大陸	両大陸の関係性や諸問題について講義する。 課題④を提出する	ノート（プリント）を見直して補完する。	30 10
12 ／	中央アジア	中央アジアをめぐる諸問題について講義する。	ノート（プリント）を見直して補完する。	30 10
13 ／	太平洋諸島	太平洋諸島をめぐる諸問題について講義する。 課題⑤を配布する	ノート（プリント）を見直して補完する。	30 10
14 ／	「宇宙」	「宇宙」という領域をめぐる大国の思惑について講義する。 課題⑤を提出する	ノート（プリント）を見直して補完する。	30 10
15 ／	発表	内容・発表の態度・関係資料の作成などを評価する。	発表の準備をする。	60 10
16 ／	定期試験	定期試験（50分）	授業内容を学習する。 試験内容・結果を確認する。	50 10
17 ／	試験返却（自己点検）			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	Social Science (English)	1	624100	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	UEDA, Kiyoshi	Hakusanroku 101.201		Mondays /Thursday 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Modern/Contemporary History	This course is designed to help students develop a way of looking at things "now" by grasping various phenomena occurring in various regions of the world from both geographical and historical perspectives. To be able to perform in Japan, as well as abroad in the future, students will acquire basic knowledge on various regions and study Japan's historical involvement in those regions.
2	International Relations/Affairs	
3	Geography	
4	Conflict	
5	Peace	

Course Description and Expectations for Students (10.5pt)

This course was designed to inquire into the origins and development of present events by tracing their past. To understand "present" and "past," students will also obtain basic knowledge about geographical conditions of various parts of the world. Based on those geographical conditions, the course will consider broader questions: Why do humans not learn from history? Why do they repeat the same things, both success and failure? By so doing, students will become familiar with some aspects of dynamics mobilizing international relations today. Students will be encouraged to start "reading" a map as a reference providing invaluable information. Students will become familiar with history, while continually updating their knowledge about current affairs in various areas of the world.

Students will independently work on five assignments, preparing themselves for a mid-term test and final exam according to basic knowledge they acquire from these assignments and lectures. Also, one presentation will take place in class; students are expected to take the initiative in selecting a topic and preparing (including research) for it.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Ability to read and write English language (at the high-school level)
History and Culture IA (English) and History and Culture IB (English)
History and Culture IIA (English)

No.	Program Objectives	Target Abilities for Students (9pt)
①	b,e	Students will be able to explain international affairs of East Asia from historical and geographical perspectives.
②	b,c	Students will be able to understand India and explain its role in the international community in the future from historical and geographical perspectives.
③	b,c	Students will be able to understand the Middle East and explain its various problems from historical and geographical perspectives.
④	a,b,e	Students will be able to understand the former British Empire and its legacies as the foundation of the international community today from historical and geographical perspectives.
⑤	a,b,g,h	Students will be able to understand Russia and its neighboring countries from historical and geographical perspectives.
⑥	e,c,e,i	Students will be able to explain the North Pole from historical and geographical perspectives and understand its future impact on the international community.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		20	20	20	20	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	8	8	5	5	0	5	0	31
	Ability to think, reason and create	4	4	8	8	0	5	0	29
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / expression / communication	8	8	7	7	0	5	0	35
	Attitude and motivation for learning	0	0	0	0	0	5	0	5

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✔	Final Examination. Answers to essay-type questions will be evaluated on the basis of 4 criteria. First, a level of comprehension of the "course of history" and "geographical condition." Second, the accuracy of historical facts in the contents of an answer. Third, the relevance and logic of answers to the examination question. Fourth, the use of concise sentences and good textual structure. (20%)
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
Quizzes	①	✔	Mid-term Test. Answers to essay-type questions will be evaluated on the basis of 4 criteria. First, a level of comprehension of the "course of history" and "geographical condition." Second, the accuracy of historical facts (*shijitsu*) and facts (*jijitsu*) in the contents of an answer. Third, the relevance and logic of answers to the examination question. Fourth, the use of concise sentences and good textual structure. (20%)
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
Reports	①	✔	There will be five assignments; the instructor will explain how to think and how to write effectively. Each assignment will be distributed in class and submitted at the beginning of the next class. Assignments will be evaluated and returned the following week. (20%)
	②	✔	
	③	✔	
	④		
	⑤		
	⑥		
Presentations	①		There will be one presentation at the end of the semester. Students will choose topics on the "course of history" and "geographical condition" in consultation with the instructor. Individual presentations will be evaluated on the following points: contents, style, method, supporting material such as power-point, the indication of sources, the role of an individual presenter for the group, etc. The presentation will be evaluated and returned the following week. (20％＋20％＝40％)
	②		
	③		
	④	✔	
	⑤	✔	
	⑥	✔	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✔	Portfolio must include reflection paper, all handouts, 5 assignments, supporting material for one presentation, and others when relevant. Work will be comprehensively evaluated, together with students' volition and attitudes to learning. Students will submit the portfolio by the end of the semester. (20%)
	②	✔	
	③	✔	
	④	✔	
	⑤	✔	
	⑥	✔	
Others	①		'
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will be able to explain the international affairs of East Asia from both historical and geographical perspectives. Students will be able to understand India and explain its role in the international community in future from both historical and geographical perspectives. Students will be able to understand the Middle East and explain its various problems that continue today from both historical and geographical perspectives. Students will be able to understand the former British Empire and its legacies as the foundation of the international community today from both historical and geographical perspectives. Students will be able to understand Russia and its neighboring countries from both historical and geographical perspectives. Students will explain the North Pole from both historical and geographical perspectives and its impacts on the international community in future.	Students will learn basic knowledge about the history of international affairs and geographical conditions in East Asia. Students will learn basic knowledge about the history behind the formation of India and its geographical conditions. Students will learn basic knowledge about the history of the Middle East and its geographical conditions Students will learn basic knowledge about the history of the former British Empire and its geographical conditions. Students will learn basic knowledge about the history of Russia and its neighboring countries and their geographical conditions. Students will learn basic knowledge about the history of the North Pole and its geographical conditions.

Course Schedule

* The standard time required for the specified assignment is provided in the "Time" column of the assignments. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction	Lecture on geography, history, and international relations.	Review course content.	30 10
2 /	China	Lecture on various issues China faces. Distribute Assignment ①	Review course content.	30 10
3 /	The Korean Peninsula	Lecture on various issues surrounding the Korean Peninsula. Submit Assignment ①	Review course content.	30 10
4 /	Southeast Asia	Lecture on various issues in Southeast Asia. Distribute Assignment ②	Review course content.	30 10
5 /	South Asia: India as its center	Lecture on the significance of India and its various issues. Submit Assignment ②	Review course content	30 10
6 /	Middle East	Lecture on the importance of the Middle East and its various issues.	Review course content.	30 10
7 /	African Continent	Lecture on the history of the African Continent and its various challenges. Distribute Assignment ③	Review course content.	30 10
8 /	Legacies of colonial policies: the former British Empire	Lecture on the legacies of the former British Empire by selecting examples of a few countries. Submit Assignment ③	Review course content.	30 10
9 /	Russia and Eastern Europe (including the Balkan Peninsula) Mid-term test (60 minutes)	Lecture on Russia's external policies and its relations with its neighboring countries.	Study course content. Review the contents of the test and the results.	60 10
10 /	The North Pole	Lecture on various issues surrounding the North Pole. Distribute Assignment ④	Review course content.	30 10

Course Schedule

* The standard time required for the specified assignment is provided in the "Time" column of the assignments. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	North and South Americas	Lecture on various issues of the two continents. Submit Assignment ④	Review course content.	30 10
12 /	Central Asia	Lecture on various issues surrounding Central Asia.	Review course content.	30 10
13 /	The Pacific Islands	Lecture on various issues surrounding the Pacific islands. Distribute Assignment ⑤	Review course content.	30 10
14 /	“Space”	Lecture on ulterior motives of Great Powers over the area called “space”. Submit Assignment ⑤	Review course content.	30 10
15 /	Presentation	Present a topic of the student’s choice.	Prepare for presentation. Evaluate one’s presentation and others	60 45
16 /	Final Exam	Final exam (50 minutes)	Study overall course content. Review the content of the exam and the results.	50 10
17 /	Self-check			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Calculus A	2	611200	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	KIHARA, Hitsohi	Hakusanroku C: 101.201		(M-F) 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Limits	Students will be able to master the concept of a limit, show how a limit help us define the derivative, consider different techniques of differentiation, know how to use derivatives to sketch the graphs of numerous functions, learn how to apply the concept of derivatives to real-world problems, and how sequences can be useful to convey numbers.
2	Continuity	
3	Derivatives	
4	Graphs	
5	Sequences	

Course Description and Expectations for Students (10.5pt)

In this course, we will learn how the study of calculus came to be and why calculus is important for many different fields in science and technology. The course will start with the idea of limits and how we use limits to understand how functions behave at certain points and at infinity. We will then learn the notion of continuity and how limits and continuity help us understand the notion of a derivative. Once we know what a derivative is, we will learn many techniques of differentiation and applications to differentiation. We will finish the course with a basic introduction to sequences which will get us ready for the next course.
This course will offer peer teaching in class as a type of active learning.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: Calculus Early Transcendentals 9th Edition by James Stewart (Cengage Learning) ISBN-13: 978-1337613927

Reference books: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart (Brooks/Cole Pub Co) ISBN-13: 978-1305071759

Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have a decent understanding of the concepts covered in Pre-Calculus about functions, their graphs and their properties. It is advised that students should feel comfortable asking questions in and outside of the class. Further, students should take the worksheet problems in class serious in order to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.

No.	Program Objectives	Target Abilities for Students (9pt)
①	a, d, g, i	Students will be able to understand the purpose of finding the limits of functions.
②	a, d, g, i	Students will be able to understand the meaning of a derivative.
③	a, d, g, i	Students will be able to understand how to apply different techniques of differentiation.
④	a, d, g, i	Students will be able to understand how to sketch graphs of functions by using derivatives.
⑤	a, d, g, i	Students will be able to understand different applications of derivatives.
⑥	a, d, g, i	Students will be able to understand the meaning of sequences and sigma notation.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		25	45	20	10	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	20	5	0	0	0	0	35
	Ability to think, reason and create	15	25	5	4	0	0	0	49
	Collaboration and leadership	0	0	5	3	0	0	0	8
	Announcement / Expression / Communication	0	0	5	3	0	0	0	8
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	There will be one exam, the final exam which will cover material for latter half of this semester. It is worth 25% of your final grade. It is crucial that you study all your notes, homework and quizzes before a test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be one quiz in each lecture which will cover material from the previous lesson. The average of all your quizzes will be your final score which is worth 20% of your final grade. These quizzes are meant to make sure you are keeping up with the class. And there will be one mid-term test which will cover material for the former half of this semester. It is worth 25% of your grade, so 45% of your final grade will be obtained through these quizzes and mid-term test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students will have to submit an output-activity assignment in each lecture. In this activity, you need to make your own problem and its answer, and then explain them to your classmates. The grading criteria are as follows. Additional points will be the number of classmates' signatures (maximum of 3) you were able to get in class time. Losing points will be how many worksheets you have signed on which include some mistakes, big gaps in logic or insufficient explanations. In total, your assignment will equate to 20% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①	✓	There will be two Math-battle activities. In these activities, each student as a team member will create their own problems and solve problems which the other teams created. The more problems you can create or solve, the more points your team will get. It is worth 10% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are curious, ask a lot of questions and show willingness to try new ideas, no matter of failure. Further, students understand that making mistakes is crucial to learning. Therefore, students go back and correct any mistakes they might have encountered in their work/HW/quizzes/exams. In essence, students learn the procedure of learning.	Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus/Class Introduction	Lecture	Read the syllabus.	0
2 /	The Limit and Continuity	Lecture Worksheet	Read Section 2.2 and 2.5 Finish worksheet/HW.	30
3 /	Calculating Limits 1	Quiz Lecture Worksheet	Read Section 2.3 and 2.6 Finish worksheet/HW.	30
4 /	Calculating Limits 2	Quiz Lecture Worksheet	Read Section 2.3 and 2.6 Finish worksheet/HW.	30
5 /	Calculating Limits 3	Quiz Lecture Worksheet	Read Section 2.3 and 2.6 Finish worksheet/HW.	30
6 /	Calculating Limits 4	Quiz Lecture Worksheet	Read Section 2.3 and 2.6 Finish worksheet/HW.	30
7 /	Tangent Lines	Quiz Lecture Worksheet	Read Section 2.7 Finish worksheet/HW.	30
8 /	Derivatives	Quiz Lecture Worksheet	Read Section 2.8 Finish worksheet/HW.	30
9 /	Differentiation	Quiz Lecture Worksheet	Read Section 3.1 Finish worksheet/HW.	30
10 /	The Product and Quotient Rules	Quiz Lecture Worksheet	Read Section 3.2 Finish worksheet/HW.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	The Chain Rule	Quiz Lecture Worksheet	Read Section 3.4 Finish worksheet/HW.	30
12 /	Derivatives of Trigonometric Functions	Quiz Lecture Worksheet	Read Section 3.3 Finish worksheet/HW.	30
13 /	Derivatives of Exponential/Logarithmic Functions	Quiz Lecture Worksheet	Read Section 3.6 Finish worksheet/HW.	30
14 /	Summary of Derivatives	Quiz Lecture Worksheet	Finish worksheet/HW.	30
15 /	Math Battle	Presentation Group work	Review materials from #1 to #14	30
16 /	Review for Mid-term Test	Self-Study / Q&A	Review for Mid-term Test.	30
17 /	Mid-term Test	Mid-term Test Self-Study	Review materials from #1 to #14.	120
18 /	Implicit Differentiation	Test return Lecture Worksheet	Read Section 3.5 Finish worksheet/HW.	30
19 /	Linear Approximations	Quiz Lecture Worksheet	Read Section 3.10 Finish worksheet/HW.	30
20 /	Related Rates	Quiz Lecture Worksheet	Read Section 3.9 Finish worksheet/HW.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Graphs of Functions	Quiz Lecture Worksheet	Read Section 4.1 Finish worksheet/HW.	30
22 /	Maximum and Minimum Values	Quiz Lecture Worksheet	Read Section 4.1 Finish worksheet/HW.	30
23 /	Concavity and Inflection Points	Quiz Lecture Worksheet	Read Section 4.3 Finish worksheet/HW.	30
24 /	L'Hospital's Rule 1	Quiz Lecture Worksheet	Read Section 4.4 Finish worksheet/HW.	30
25 /	L'Hospital's Rule 2	Quiz Lecture Worksheet	Read Section 4.4 Finish worksheet/HW.	30
26 /	L'Hospital's Rule 3	Quiz Lecture Worksheet	Read Section 4.5 Finish worksheet/HW.	30
27 /	L'Hospital's Rule 4	Quiz Lecture Worksheet	Read Section 4.5 Finish worksheet/HW.	30
28 /	Optimization Problems	Quiz Lecture Worksheet	Read Section 4.7 Finish worksheet/HW.	30
29 /	Math Battle	Presentation Group work	Review materials from #18 to #28	30
30 /	Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	30
31 ／	Final Exam		Review materials from #18 to #28.	120
32 ／	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Calculus B	2	611300	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	KIHARA, Hitsohi	Hakusanroku C: 101.201		(M-F) 16:30-17:30

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Anti-Derivatives	Students will be able to know the concept of an anti-derivative, show the relationship between the integral and the derivative, understand various methods of integration, use integration as a tool in finding areas and volumes.
2	Riemann's Sum	
3	Integrals	
4	Areas	
5	Volumes	

Course Description and Expectations for Students (10.5pt)

This course will start with the idea of how to find the area under curves using limits and summations. We will then understand how using limits and summations to find areas under curves is using the idea of Riemann's Sum. This then allows us to understand how calculating area under curves brings out the notion of integration. The Fundamental Theorem of Calculus connects what we learned in the first semester of differentiation to the new notion of integration. Different integration techniques will be studied, followed by how to calculate areas and volumes of different shapes by integration. This course will offer peer teaching in class as a type of active learning.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: Calculus Early Transcendentals 9th Edition by James Stewart (Cengage Learning) ISBN-13: 978-1337613927

Reference books: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart (Brooks/Cole Pub Co) ISBN-13: 978-1305071759

Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have a decent understanding of the concepts covered in Calculus A.
It is advised that students should feel comfortable asking questions in and outside of the class. Further, students should take the worksheet problems in class serious in order to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.

No.	Program Objectives	Target Abilities for Students (9pt)
①	a, d, g, i	Students will be able to understand the relationship between the derivative and the antiderivative.
②	a, d, g, i	Students will be able to understand the meaning of Reimann's Sum method.
③	a, d, g, i	Students will be able to understand how to find the value of definite integrals.
④	a, d, g, i	Students will be able to understand how to use the properties of definite integrals.
⑤	a, d, g, i	Students will be able to understand how to use the various methods of integration.
⑥	a, d, g, i	Students will be able to understand how to use the integral to find the area and volume of objects.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		25	45	20	10	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	20	5	0	0	0	0	35
	Ability to think, reason and create	15	25	5	4	0	0	0	49
	Collaboration and leadership	0	0	5	3	0	0	0	8
	Announcement / Expression / Communication	0	0	5	3	0	0	0	8
	Attitude and motivation for learning	0	0	0	0	0	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	There will be one exam, the final exam which will cover material for latter half of this semester. It is worth 25% of your final grade. It is crucial that you study all your notes, homework and quizzes before a test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be one quiz in each lecture which will cover material from the previous lesson. The average of all your quizzes will be your final score which is worth 20% of your final grade. These quizzes are meant to make sure you are keeping up with the class. And there will be one mid-term test which will cover material for the former half of this semester. It is worth 25% of your grade, so 45% of your final grade will be obtained through these quizzes and mid-term test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students will have to submit an output-activity assignment in each lecture. In this activity, you need to make your own problem and its answer, and then explain them to your classmates. The grading criteria are as follows. Additional points will be the number of classmates' signatures (maximum of 3) you were able to get in class time. Losing points will be how many worksheets you have signed on which include some mistakes, big gaps in logic or insufficient explanations. In total, your assignment will equate to 20% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①	✓	There will be one or two Math-battle activities. In these activities, each student as a team member will create their own problems and solve problems which the other teams created. The more problems you can create or solve, the more points your team will get. It is worth 10% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are curious, ask a lot of questions and show willingness to try new ideas, no matter of failure. Further, students understand that making mistakes is crucial to learning. Therefore, students go back and correct any mistakes they might have encountered in their work/HW/quizzes/exams. In essence, students learn the procedure of learning.	Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus/Class Introduction Antiderivatives 1	Lecture Worksheet	Read Section 4.9. Read the syllabus. Finish worksheet/HW.	30
2 /	Antiderivatives 2	Quiz Lecture Worksheet	Read Section 4.9. Finish worksheet/HW.	30
3 /	Riemann Sum 1	Quiz Lecture Worksheet	Read Section 5.1. Finish worksheet/HW.	30
4 /	Riemann Sum 2	Quiz Lecture Worksheet	Read Section 5.1. Finish worksheet/HW.	30
5 /	The Definite Integral 1	Quiz Lecture Worksheet	Read Section 5.2 and 5.3. Finish worksheet/HW.	30
6 /	The Definite Integral 2	Quiz Lecture Worksheet	Read Section 5.2. Finish worksheet/HW.	30
7 /	Properties of the Definite Integral 1	Quiz Lecture Worksheet	Read Section 5.2. Finish worksheet/HW.	30
8 /	Properties of the Definite Integral 2	Quiz Lecture Worksheet	Read Section 5.2 and 5.5. Finish worksheet/HW.	30
9 /	The Substitution Rule 1	Quiz Lecture Worksheet	Read Section 5.5. Finish worksheet/HW.	30
10 /	The Substitution Rule 2	Quiz Lecture Worksheet	Read Section 5.5. Finish worksheet/HW.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	The Substitution Rule 3	Quiz Lecture Worksheet	Read Section 5.5. Finish worksheet/HW.	30
12 /	The Substitution Rule 4	Quiz Lecture Worksheet	Read Section 7.3. Finish worksheet/HW.	30
13 /	Math Battle	Presentation Group work	Review materials from #1 to #12	30
14 /	Review for Mid-term Test	Self-Study / Q&A	Review for Mid-term Test.	30
15 /	Mid-term Test	Mid-term Test Self-Study	Review materials from #1 to #12.	120
16 /	Integration by Parts 1	Test return Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
17 /	Integration by Parts 2	Quiz Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
18 /	Integration by Part 3	Quiz Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
19 /	Integration of Rational Functions 1	Quiz Lecture Worksheet	Read Section 7.4. Finish worksheet/HW.	30
20 /	Integration of Rational Functions 2	Quiz Lecture Worksheet	Read Section 7.4. Finish worksheet/HW.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Integration of Rational Functions 3	Quiz Lecture Worksheet	Read Section 7.4. Finish worksheet/HW.	30
22 /	Trigonometric Integrals 1	Quiz Lecture Worksheet	Read Section 7.2. Finish worksheet/HW.	30
23 /	Trigonometric Integrals 2	Quiz Lecture Worksheet	Read Section 7.2. Finish worksheet/HW.	30
24 /	Areas Between Curves 1	Quiz Lecture Worksheet	Read Section 6.1. Finish worksheet/HW.	30
25 /	Areas Between Curves 2	Quiz Lecture Worksheet	Read Section 6.1. Finish worksheet/HW.	30
26 /	Areas Between Curves 3	Quiz Lecture Worksheet	Read Section 6.1. Finish worksheet/HW.	30
27 /	Solids of Revolution 1	Quiz Lecture Worksheet	Read Section 6.2. Finish worksheet/HW.	30
28 /	Solids of Revolution 2	Quiz Lecture Worksheet	Read Section 6.2. Finish worksheet/HW.	30
29 /	Solids of Revolution 3	Quiz Lecture Worksheet	Read Section 6.2. Finish worksheet/HW.	30
30 /	Review for Final Exam or Math Battle	Self-Study / Q&A or Presentation Group work	Review for Final Exam.	30
31 ／	Final Exam		Review materials from #16 to #29.	120
32 ／	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Algebra and Geometry A	2	611600	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	HUSSIEN, Alaa	Hakusanroku C :101. 201		(Mon.-Thu.) 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Matrices – Linear equations	Students will be able to define a matrix and recognize its properties, understand how to use matrices for solving linear equations, solve some real life application problems using matrices, know the equations for a parabola, ellipse and hyperbola, and understand some applications from the real life that uses such shapes.
2	Determinants – Cramer rule	
3	Conic Sections-Parabolas	
4	Ellipse	
5	Hyperbola	

Course Description and Expectations for Students (10.5pt)

In the first part of this course, students will study the notion of basic linear algebra. That is, they will look at simultaneous equations and convert them into matrices. Then, they will learn how to solve linear equations using matrices and apply their knowledge to solve some real-life application problems. Students will also learn the algebra and properties of matrices. In the second part, students will learn about conic sections such as parabolas, ellipses, and hyperbolas. They will study the equations of each shape and the proofs of those equations. In addition, they will learn how such shapes are used in useful and different real-life applications. It is advised that students pay attention to understand the topic of each class very well, ask questions during the class, and submit the assignments on time. The lecture style of this course is conducted through a discussion and Q&A between the teacher and students in order to get them involved in to the class. In addition, students help each other through peer learning during the work sheet solving time. These are two types of the active learning applied in the class.

【Required Materials (textbooks, reference books, reserved books)】

Textbooks: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart- CENGAGE-ISBN 978-1305071759

Reference books: Calculus Early Transcendentals 7th Edition by James Stewart- CENGAGE-ISBN 978-0538497909

Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have a basic understanding of equations and geometry.
It is advised that students should feel comfortable asking questions in and outside of the class. Further, students should take the worksheet problems in class serious to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.

No.	Program Objectives	Target Abilities for Students (9pt)
①	a, g, i	Students will be able to define a matrix and recognize its properties.
②	a, d, g, i	Students will be able to understand how to use matrices for solving systems of linear equations.
③	a, d, f, g	Students will be able to find the determinant and inverse of a matrix.
④	a, d, g, i	Students will be able to solve different real life applications problems using matrices.
⑤	a, d, g, i	Students will be able to define a parabola, ellipse, hyperbola, graph them and recognize their properties.
⑥	a, g, i	Students will be able to understand how such shapes are useful in making some daily used devices

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		30	40	20	0	0	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	15	20	10	0	0	0	0	45
	Ability to think, reason and create	15	20	10	0	0	0	0	45
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	10	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	There will be one exam, the final exam which will cover materials studied in the whole semester. It is worth 30% of your final grade. It is crucial that you study all your notes, homework, and quizzes before the exam.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be one quiz each class which will cover material from the previous lesson. The average of all your quizzes will be your final score which is worth 20% of your final grade. There will be two-chapter tests, each test is worth 10% of the final grade for a total of 20%. So 40% of your score will be obtained through the quizzes and the chapter tests.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students will have to submit a HW/worksheet assignment every class and the deadline will be the end of the learning session of the class day. The grading criteria will be based on whether you have checked your answer and have corrected your mistakes completely. In total, your assignment will equate to 20% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	The portfolio aspect of the grade is meant to make sure the student is keeping up with all the daily material in a neat and organized manner. There will be a rubric that will determine your final score for your portfolio. The rubric will measure the following: 1-Notebook – Did the student take a decent amount of notes for each lecture? 5% 2-Binder – Are the papers of all sections well organized? 2% 3-Work– Did the student go back to correct mistakes in their work/HW/quizzes/exams? 3%
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
1-Students learn different methods for solving linear equations using matrices and determinants. 2-Detrmine whether the system is dependent or inconsistent. 3-Apply that in many real life applications such as graphics, cryptography, chemical reactions, etc. 4-Students know the definitions and graphs of conic sections and finding their equations. 5-Uderstand how conics sections are useful to make some daily used devices such as antennas and navigations system 6-Students are curious, ask a lot of questions and show willingness to try new ideas, no matter of failure.	1-Students learn how to solve linear equations using matrices and determinants. 2-Determine whether the system is dependent or inconsistent. 3-know the definitions and graphs of basic conic sections and some applications. 4-Students address their weaknesses in specific topics and form a plan to succeed in the course.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus/Class Introduction		Read the syllabus. Preview content for L.#2	30
2 /	System of Linear Equations in Two Variables	Lecture Worksheet #1	Finish worksheet/HW. Preview content for L.#3	30
3 /	System of Linear Equations in Several Variables	Lecture Worksheet #2	Finish worksheet/HW. Preview content for L.#4	30
4 /	Matrices and Systems of Linear Equations Part I	Lecture Worksheet #3	Finish worksheet/HW. Preview content for L.#5	30
5 /	Matrices and Systems of Linear Equations Part II	Lecture Worksheet #4	Finish worksheet/HW. Preview content for L.#6	30
6 /	The Algebra of Matrices Part I	Lecture Worksheet #5	Finish worksheet/HW. Preview content for L.#7	30
7 /	The Algebra of Matrices Part II	Lecture Worksheet #6	Finish worksheet/HW. Preview content for L.#8	30
8 /	Inverses of Matrices and Matrix Equations Part I	Lecture Worksheet #7	Finish worksheet/HW. Preview content for L.#9	30
9 /	Inverses of Matrices and Matrix Equations Part II	Lecture Worksheet #8	Finish worksheet/HW. Preview content for L.#10	30
10 /	Determinants	Lecture Worksheet #9	Finish worksheet/HW. Preview content for L.#11	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Cramer’s Rule	Lecture Worksheet #10	Finish worksheet/HW. Preview content for L.#12	30
12 /	Systems of Non-Linear Equations	Lecture Worksheet #11	Finish worksheet/HW. Preview content for L.#11	30
13 /	Systems of Inequalities	Lecture Worksheet #12	Finish worksheet/HW. Preview content for L.#13	30
14 /	Applications of Matrices Part I	Lecture Worksheet #13	Finish worksheet/HW. Preview content for L.#13	30
15 /	Applications of Matrices Part II	Lecture Worksheet #14	Finish worksheet/HW. Preview content for L.#14	30
16 /	Applications of Matrices Part III	Lecture Worksheet #15	Finish worksheet/HW. Preview content for L.#15	30
17 /	Applications of Matrices Part IV	Lecture Worksheet #16	Finish worksheet/HW. Preview content for L.#16	30
18 /	Applications of Matrices Part V	Lecture Worksheet	Finish worksheet/HW. Review content for Test I.	30
19 /	Review for TEST I	Self-Study / Q&A	Review content for Test I	80
20 /	TEST I		Preview content for L.#21	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Conic Sections: Parabolas	Lecture Worksheet #17	Finish worksheet/HW. Preview content for L.#22	30
22 /	Applications of Parabolas	Lecture Worksheet #18	Finish worksheet/HW. Preview content for L.#23	30
23 /	Conic Sections: Ellipses	Lecture Worksheet #19	Finish worksheet/HW. Preview content for L.#24	30
24 /	Applications of Ellipses	Lecture Worksheet #20	Finish worksheet/HW. Preview content for L.#25	30
25 /	Conic Sections: Hyperbolas	Lecture Worksheet #21	Finish worksheet/HW. Preview content for L.#26	30
26 /	Applications of Hyperbolas	Lecture Worksheet #22	Finish worksheet/HW. Preview content for L.#27	30
27 /	Shifted Parabolas/Ellipses/Hyperbolas	Lecture Worksheet #23	Finish worksheet/HW. Review content for Test II	30
28 /	Review for TEST II	Self-Study / Q&A	Review content for Test II.	80
29 /	TEST II		Review for Final Exam.	30
30 /	TEST II return Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120
31 ／	Final Exam		Review all materials	120
32 ／	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Algebra and Geometry B	2	611700	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	HUSSIEN, Alaa	Hakusanroku C :101. 201		Mon,Tue,Thu 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Hyperbolic functions.	Students will learn about hyperbolic functions and how they are related to hyperbolas and understand how to represent equations in polar form, understand the difference between scalar quantities and vector quantities, learn about the properties of vectors and vector operations in 2D and 3D, look at different applications that incorporate vectors, know how to find the dot and cross product of two vectors, learn how to find vector equations of lines and planes in 3D, and study some vector applications in real-life.
2	Polar coordinates.	
3	Vectors(2D)-Vectors(3D)	
4	Dot product-Cross Product(3D)	
5	Equations of lines-Equations of planes	

Course Description and Expectations for Students (10.5pt)

This course is divided into 3 parts, the first part is related to hyperbolic functions and polar coordinates. The second part is related to vectors in 2D and the third part is related to vectors in 3D. Students will learn the definition of hyperbolic functions and its relation to hyperbola. They will know about the polar coordinates and how to represent and graph equations using polar system. Then they will learn about definition and properties of vectors in 2D, how to do different operations on vectors in 2D such as addition subtraction and multiplying by a scalar, and their applications in real life. The dot product of two vectors in 2D is important as it has many applications in real life, so student will know how to find it. After studying the vectors in 2D, students will learn about vectors in 3D and how to find the dot and cross product of two vectors in 3D and know about different applications. In 3D they will also learn about how to find equations of lines and planes and their applications. It is advised that students do their best by asking questions to understand the topic of each class very well as the topic of next classes depends up on the previous ones. The lecture style of this course is conducted through a discussion and Q&A between the teacher and students in order to get them involved in to the class. In addition, students help each other through peer learning during the work sheet solving time. These are two types of the active learning applied in the class.

【Required Materials (textbooks, reference books, reserved books)】
Textbooks: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart- CENGAGE-ISBN 978-1305071759
Reference books: Calculus Early Transcendentals 7th Edition by James Stewart- CENGAGE-ISBN 978-0538497909
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have a basic understanding of equations and geometry, and remember the definition of hyperbola from the first term. It is advised that students should feel comfortable asking questions in and outside of the class. Further, students should take the worksheet problems in class serious in order to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.

No.	Program Objectives	Target Abilities for Students (9pt)
①	a, g, i	Students will be able to understand the definition hyperbolic functions and polar coordinates system.
②	a, d, g, i	Students will be able to understand the properties of vectors and vector operations in two dimensions.
③	a, d, f, g	Students will be able to solve application problems using vectors to model force, displacement & velocity.
④	a, d, g, i	Students will be able to define a vector and understand its properties in three dimensions.
⑤	a, d, g, i	Students will be able to find the dot product and cross product of vectors in three dimensions.
⑥	a, g, i	Students will be able to find equations of lines and planes in three dimensions.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		30	40	20	0	0	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	15	20	10	0	0	0	0	45
	Ability to think, reason and create	15	20	10	0	0	0	0	45
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	10	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	There will be one exam, the final exam which will cover materials studied in the whole semester. It is worth 30% of your final grade. It is crucial that you study all your notes, homework, and quizzes before the exam.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be one quiz each class which will cover material from the previous lesson. The average of all your quizzes will be your final score which is worth 20% of your final grade. There will be two-chapter tests, each test is worth 10% of the final grade for a total of 20%. So 40% of your score will be obtained through the quizzes and the chapter tests.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students will have to submit a HW/worksheet assignment every class and the deadline will be the end of the learning session of the class day. The grading criteria will be based on whether you have checked your answer and have corrected your mistakes completely. In total, your assignment will equate to 20% of your final grade.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	The portfolio aspect of the grade is meant to make sure the student is keeping up with all the daily material in a neat and organized manner. There will be a rubric that will determine your final score for your portfolio. The rubric will measure the following: 1-Notebook – Did the student take a decent amount of notes for each lecture? 5% 2-Binder – Are the papers of all sections well organized? 2% 3-Work– Did the student go back to correct mistakes in their work/HW/quizzes/exams? 3%
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
1-Students learn about hyperbolic functions, polar coordinates and graph equations in polar system. 2-Students learn about vectors in 2D, their properties, operations, dot product 3-How to use vectors in 2D for velocity and force modeling applications in physics. 4-Learn about vectors in 3D, their properties, operations, dot and cross product. 5-Use vectors in 3D for torque modeling and distance calculation application. 6-Students are curious, ask a lot of questions try new ideas.	1-Students learn about the hyperbolic functions and polar system. 2-Know the definition of vectors, properties, and basic operations in 2D. 3-Undertsand some applications related to physics 4-Learn about 3D coordinates, definition of vectors in 3D and basic operations and some applications. 5-Students address their weaknesses in specific topics and form a plan to succeed in the course.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus/Class Introduction Hyperbolic function	Lecture Worksheet #1	Read the syllabus. Preview content for L.#2	30
2 /	Polar coordinate system part I	Lecture Worksheet #2	Finish worksheet/HW. Preview content for L.#3	30
3 /	Polar coordinate system part II	Lecture Worksheet #3	Finish worksheet/HW. Preview content for L.#4	30
4 /	Vectors Introduction Vectors in Two Dimensions Part I	Lecture Worksheet #4	Finish worksheet/HW. Preview content for L.#5	30
5 /	Vectors in Two Dimensions Part II	Lecture Worksheet #5	Finish worksheet/HW. Preview content for L.#6	30
6 /	Applications of Vectors in Two Dimensions	Lecture Worksheet #6	Finish worksheet/HW. Preview content for L.#7	30
7 /	The Dot Product of Vectors	Lecture Worksheet #7	Finish worksheet/HW. Preview content for L.#8	30
8 /	Applications of the Dot Product Part I	Lecture Worksheet #8	Finish worksheet/HW. Preview content for L.#9	30
9 /	Applications the Dot Product Part II	Lecture Worksheet #9	Finish worksheet/HW. Preview content for L.#10	30
10 /	Applications of the Dot Product Part III	Lecture Worksheet #10	Finish worksheet/HW. Preview content for L.#11	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Applications of the Dot Product Part IV	Lecture	. Review all contents for Test #1	30
12 /	Review for Test I	Self-Study / Q&A	Review content for Test #1	30
13 /	TEST I		Preview content for L.#14	30
14 /	Three-Dimensional Coordinate Geometry Part I	Lecture Worksheet #11	Finish worksheet/HW. Preview content for L.#15	30
15 /	Three-Dimensional Coordinate Geometry Part II	Lecture Worksheet #12	Finish worksheet/HW. Preview content for L.#16	30
16 /	Vectors in Three Dimensions Part I	Lecture Worksheet #13	Finish worksheet/HW. Preview content for L.#17	30
17 /	Vectors in Three Dimensions Part II	Lecture Worksheet #14	Finish worksheet/HW. Preview content for L.#18	30
18 /	Vectors in Three Dimensions Part III	Lecture Worksheet #15	Finish worksheet/HW. Preview content for L.#19	30
19 /	The Cross Product Part I	Lecture Worksheet #16	Finish worksheet/HW. Preview content for L.#20	80
20 /	The Cross Product Part II	Lecture Worksheet #17	Finish worksheet/HW. Preview content for L.#21	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Applications of the Cross Product	Lecture Worksheet #18	Finish worksheet/HW. Preview content for L.#22	30
22 /	Equations of Lines	Lecture Worksheet #19	Finish worksheet/HW. Preview content for L.#23	30
23 /	Applications of Lines Part I	Lecture Worksheet #20	Finish worksheet/HW. Preview content for L.#24	30
24 /	Applications of Lines Part II	Lecture Worksheet #21	Finish worksheet/HW. Preview content for L.#25	30
25 /	Equations of Planes	Lecture Worksheet #22	Finish worksheet/HW. Preview content for L.#26	30
26 /	Applications of Planes Part I	Lecture Worksheet #23	Finish worksheet/HW. Preview content for L.#27	30
27 /	Applications of Planes Part II	Lecture Worksheet #24	Finish worksheet/HW. Review content for Test II	30
28 /	Review for Test II	Self-Study / Q&A	Finish worksheet/HW. Review content for Test II	80
29 /	TEST II		Review for Final Exam.	30
30 /	TEST II return Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120
31 ／	Final Exam		Review all materials	120
32 ／	Final Exam Return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Physics A	2	612000	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	ITO, Meguru	Hakusanorku C 101.201		

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Electricity	Physics cultivates the ability to think systematically and logically about phenomena that are important to learning natural science and engineering. In this course, students will be able to deepen their knowledge about physical phenomena about electricity and magnetism. Students will also learn heat and thermodynamics.
2	Magnetism	
3	Heat	
4	Thermodynamics	
5		

Course Description and Expectations for Students (10.5pt)

In this course,

- Students must submit all exercises, quizzes, and preview checks.
- Late submission may reduce students' score.
- All classes are conducted in English.
- Students have to take notes and submit them each month.

Advice for students:

- Physics A is a course that forms the base of Physics B, specialized courses in 4th and 5th grade. Be sure to understand the contents. If you have any questions, ask during classes, learning sessions, and/or schedule a meeting with a teacher during posted office hours.

This course consists of preparations (reading textbooks/ preview check), classes (exercise/class work/quiz), and reviews. Be sure to work on preparations because understanding during classes will improve greatly.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: Physics (HMH) ISBN 978-0-544-81773-9
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Knowledge of Fundamental Physics A and B
Fundamental skills of calculation

No.	Program Objectives	Target Abilities for Students (9pt)
①	h,i	Students will be able to understand factors of electricity (field, potential, current etc.).
②	h,i	Students will be able to understand magnetism.
③	h,i	Students will be able to understand relationship between electricity and magnetism.
④	h,i	Students will be able to understand heat and thermodynamics.
⑤	d,h,i	Students will be able to understand physical phenomena through experiments and inquiry project.
⑥	i	Students will be able to participate classes actively and review what you achieved.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		40	20	20	0	0	10	10	100
Comprehensive Strength Criteria	Ability to capture knowledge	20	10	10	0	0	0	0	40
	Ability to think, reason and create	20	10	10	0	0	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	5	5
	Attitude and motivation for learning	0	0	0	0	0	10	5	15

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	An exam will be administered at end of semester. The exam covers all topics that students learned in the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Quizzes	①	✓	Students will have short quizzes in class to check understanding of the content. If students solve mastery problems, they get bonus point.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Reports	①	✓	Exercises and Preview checks will be done in most classes. The exercises should be done in class time. But if students could not finish exercise in class time, it should be finished by the next class, or the due date designated by the instructors.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		Students have to take notes in class. Students' notebook will be graded based on the content and organization level of the notes.
	②		
	③		
	④		
	⑤		
	⑥	✓	
Others	①		Students are able to give feedback about classes.
	②		
	③		
	④		
	⑤		
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are able to identify and understand actual phenomena correctly with physical interpretation. Students are able to calculate and solve questions correctly using formulae. Students are able to understand units and their dimensions for each physical value discussed in the course.	Students are able to understand physical phenomena. Students are able to calculate and solve questions using formulae. Students are able to understand units of physical values.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Guidance Review of Buoyancy Understanding through the experiment	Guidance and experiment	Reading the given documents Reading textbook, then preview check	30
2 /	Electrostatics Understanding Coulomb’s law and electrostatic forces	Lecture and exercise	Confirming the unclear points	15
3 /	Electrostatics Understanding Coulomb’s law and electrostatic forces	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
4 /	Electric Field Understanding the electric fields	Lecture and exercise Quiz	Confirming the unclear points	15
5 /	Electric Field Understanding the electric fields	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
6 /	Electric Potential Understanding the electric potential energy and electric potential	Lecture and exercise Quiz	Confirming the unclear points	15
7 /	Electric Potential Understanding the electric potential energy and electric potential	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
8 /	Capacitance Understanding the capacitance	Lecture and exercise Quiz	Confirming the unclear points	15
9 /	Capacitance Understanding the capacitance	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
10 /	Current and Resistance Understanding the electric current, Ohm’s law, electric power, and Joule’s heat.	Lecture and exercise Quiz	Finishing exercise and reviewing the class Reading textbook, then preview check	45

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Magnets and Magnetic Fields Understanding the magnetic fields	Lecture and exercise	Confirming the unclear points	15
12 /	Magnets and Magnetic Fields Understanding the magnetic fields	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
13 /	Magnetism from Electricity Understanding the Right-hand rule	Lecture and exercise Quiz	Confirming the unclear points	15
14 /	Magnetism from Electricity Understanding the Ampere’s law	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
15 /	Electricity from Magnetism Understanding the electromagnetic induction	Lecture and exercise Quiz	Confirming the unclear points	15
16 /	Electricity from Magnetism Understanding the Faraday’s law	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
17 /	Generators, Motors, Mutual inductance, and Transformers Understanding the mutual induction	Lecture and exercise Quiz	Confirming the unclear points	30
18 /	Heat transfer Understanding the various types of heat transfer	Lecture and exercise	Finishing exercise and reviewing class	15
19 /	Heat Understanding the specific heat capacity of matter	Lecture and exercise	Confirming the unclear points	45
20 /	Heat Understanding the heat expansion	Lecture and exercise	Finishing exercise and reviewing class	15

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Change in Phase Understanding the latent heat and phase change	Lecture and exercise Quiz	Finishing exercise and reviewing class Reading textbook, then preview check	45
22 /	The First Law of Thermodynamics Understanding the processes of thermodynamics	Lecture and exercise	Confirming the unclear points	15
23 /	The First Law of Thermodynamics Understanding the adiabatic process	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
24 /	The Second Law of Thermodynamics Understanding the heat engines and entropy	Lecture and exercise Quiz	Finishing exercise and reviewing class	30
25 /	The Second Law of Thermodynamics Understanding the Carnot cycle	Lecture and exercise	Confirming the unclear points	15
26 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project Quiz	Continuing the assignment	15
27 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project	Continuing the assignment	15
28 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project	Finishing the report	45
29 /	Exercise Understanding the learned contents	Exercise	Reviewing the contents so far. Checking wrong answer	45
30 /	Exercise Understanding the learned contents	Exercise	Reviewing the contents so far. Checking wrong answer	45
31	Final exam		Review all materials	
32	Final exam return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Physics B	2	612100	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	ITO, Meguru	Hakusanorku C 101.201		

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Vibration	Physics cultivates the ability to think systematically and logically about phenomena that are important to learning natural science and engineering. In this course, students will be able to deepen their knowledge about the phenomena of wave motion, sound, and light. Students will also learn the fundamentals of nuclear physics and atomic energy.
2	Wave, sound	
3	Light	
4	Radioactivity and nuclear reaction	
5		

Course Description and Expectations for Students (10.5pt)

In this course,

- Students must submit all exercises, quizzes, and preview checks.
- Late submission may reduce students' score.
- All classes are conducted in English.
- Students have to take notes and submit them each month.

Advice for students:

- Physics B is a course that forms the base of specialized courses in 4th and 5th grade. Be sure to understand the contents. If you have any questions, ask during classes, learning sessions, and/or schedule a meeting with a teacher during posted office hours.

This course consists of preparations (reading textbooks/ preview check), classes (exercise/class work/quiz), and reviews. Be sure to work on preparations because understanding during classes will improve greatly.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: Physics (HMH) ISBN 978-0-544-81773-9
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Knowledge of Fundamental Physics A, B and Physics A
Fundamental skills of calculation

No.	Program Objectives	Target Abilities for Students (9pt)
①	h,i	Students will be able to understand concept of simple harmonic motion.
②	h,i	Students will be able to understand characteristics of sound wave and light wave.
③	h,i	Students will be able to understand physics of refraction and interference of wave.
④	h,i	Students will be able to understand concept of radioactivity and nuclear reaction.
⑤	d,h,i	Students will be able to understand physical phenomena through experiments and inquiry project.
⑥	i	Students will be able to participate classes actively and review what you achieved.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		40	20	20	0	0	10	10	100
Comprehensive Strength Criteria	Ability to capture knowledge	20	10	10	0	0	0	0	40
	Ability to think, reason and create	20	10	10	0	0	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	5	5
	Attitude and motivation for learning	0	0	0	0	0	10	5	15

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	An exam will be administered at end of semester. The exam covers all topics that students learned in the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Quizzes	①	✓	Students will have short quizzes in class to check understanding of the content.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Reports	①	✓	Exercises and Preview checks will be done in most classes. The exercises should be done in class time. But if students could not finish exercise in class time, it should be finished by the next class, or the due date designated by the instructors.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		Students have to take notes in class. Students' notebook will be graded based on the content and organization level of the notes.
	②		
	③		
	④		
	⑤		
	⑥	✓	
Others	①		Students are able to give feedback about classes.
	②		
	③		
	④		
	⑤		
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are able to identify and understand actual phenomena correctly with physical interpretation. Students are able to calculate and solve questions correctly using formulae. Students are able to understand units and their dimensions for each physical value discussed in the course.	Students are able to understand physical phenomena. Students are able to calculate and solve questions using formulae. Students are able to understand units of physical values.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Guidance Vibration Understanding the Hooke's Law	Lecture and exercise	Confirming the unclear points	15
2 /	Vibration Understanding the Hooke's Law	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
3 /	Simple Harmonic Motion Understanding the motion of simple harmonic motion	Lecture and exercise Quiz	Confirming the unclear points	15
4 /	Simple Harmonic Motion Understanding the motion of simple harmonic motion	Lecture and exercise	Finishing exercise and reviewing the class	30
5 /	Simple Harmonic Motion Understanding the motion of single pendulum	Lecture and exercise Quiz	Finishing exercise and reviewing the class Reading textbook, then preview check	45
6 /	Properties of Waves Understanding the transverse and the longitudinal wave	Lecture and exercise	Confirming the unclear points	15
7 /	Properties of Waves Understanding the transverse and the longitudinal wave	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
8 /	Sounds Understanding the features of sounds	Lecture and exercise Quiz	Confirming the unclear points	15
9 /	Sounds Understanding the features of sounds	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
10 /	Sounds Understanding the standing wave and Doppler effect	Lecture and exercise Quiz	Confirming the unclear points	15

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Sounds Understanding the standing wave and Doppler effect	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
12 /	Light Understanding the concept of light	Lecture and exercise Quiz	Confirming the unclear points	15
13 /	Color Understanding the characteristics of color	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
14 /	Experiment Understanding the characteristics of light through the experiment	Experiment	Finishing exercise and reviewing the class	15
15 /	Reflection and Refraction Understanding reflection and refraction of light	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
16 /	Lenses Understanding the characteristics of lenses	Lecture and exercise	Confirming the unclear points	15
17 /	Lenses Understanding the characteristics of lenses	Lecture and exercise	Confirming the unclear points	30
18 /	Mirrors Understanding the characteristics of mirrors	Lecture and exercise Quiz	Finishing exercise and reviewing the class Reading textbook, then preview check	45
19 /	Diffraction and Interference Understanding the diffraction and interference of light	Lecture and exercise	Confirming the unclear points	15
20 /	Diffraction and Interference Understanding the diffraction and interference of light	Lecture and exercise	Finishing exercise and reviewing the class	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Interference Understanding the interference of light in complex situation	Lecture and exercise Quiz	Finishing exercise and reviewing the class	30
22 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project	Continuing the assignment	15
23 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project	Continuing the assignment	15
24 /	Inquiry Based Project Researching the physical phenomenon, creating student's idea, and writing a report	Project	Finishing the report Reading textbook, then preview check	45
25 /	Radioactivity Understanding the radioactivity and half-life	Lecture and exercise	Confirming the unclear points	15
26 /	Radioactivity Understanding the radioactivity and half-life	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
27 /	Nuclear fission and fusion Understanding the nuclear fission and fusion	Lecture and exercise Quiz	Confirming the unclear points	15
28 /	Nuclear fission and fusion Understanding the nuclear fission and fusion	Lecture and exercise	Finishing exercise and reviewing class	30
29 /	Exercise Understanding the learned contents	Exercise Quiz	Reviewing the contents so far. Checking wrong answer	45
30 /	Exercise Understanding the learned contents	Exercise	Reviewing the contents so far. Checking wrong answer	45
31	Final exam		Review all materials	
32	Final exam return			

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept.S General Required	Chemistry A	1	612400	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	RASHED, Nagwa Fekri	Hakusanroku C 101.201		Friday 16:40-17:30

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Properties of Solutions	In this course, students will determine solution concentrations and colligative properties. They will identify the direction of energy transfer in chemical and physical processes and distinguish between exothermic and endothermic processes. They will also explore reversible reactions and equilibrium factors. Additionally, they will connect these theories to biochemical, industrial, and daily life applications.
2	Thermochemistry	
3	Enthalpy	
4	Entropy	
5	Reaction Rates & Equilibrium	

Course Description and Expectations for Students (10.5pt)

Chemistry A will include interactive lectures, lab demonstrations, problem-solving exercises, group experiments, peer teaching, investigative learning, and reflective learning, which are types of active learning.

For better achievements in the course, please consider the following:
- Students' safety comes first, so be constantly aware of your safety by following the Chemistry Lab Safety Rules.
- Check eSyllabus regularly for updates.
- Preview the specified sections in the textbook and other resources before attending class.
- Keep taking notes during class time.
- Participate actively in discussions by asking questions and sharing ideas with teachers and classmates.
- To build your portfolio, keep all the materials, such as class notes, experiment reports, and other assignments, in a folder.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: SAVVAS Chemistry (SAVVAS) ISBN 978-1-323-21353-7
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

- Analysis and problem-solving,
- Time management and organization.
- Written and oral communication.
- Monitoring/maintaining records and data.
- Teamwork and research

No.	Program Objectives	Target Abilities for Students (9pt)
①	d, h, i	Students will be able to express the concentration of solutions as molarity, percent by volume, or percent by mass.
②	d, h, i	Students will be able to describe how the freezing-point depression and boiling-point elevation are related to molality.
③	d, h, i	Students will be able to distinguish between endothermic and exothermic processes.
④	d, h, i	Students will be able to determine the amount of energy absorbed or released in a chemical or physical process.
⑤	d, h, i	Students will be able to determine whether a reaction is spontaneous.
⑥	d, h, i	Students will be able to explore the role of energy and methods used to control chemical reactions.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		30	20	15	0	0	20	15	100
Comprehensive Strength Criteria	Ability to capture knowledge	15	10	4	0	0	5	4	38
	Ability to think, reason, and create	15	10	4	0	0	5	4	38
	Collaboration and leadership	0	0	0	0	0	0	3	3
	Announcement / Expression / Communication	0	0	3	0	0	5	0	8
	Attitude and motivation for learning	0	0	4	0	0	5	4	13

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	The final exam is a cumulative exam for all chapters/topics taught.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	- Chapter General Tests will be held for each chapter.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students are expected to do the following: - Include the lesson title, student`s full name, and number at the top of each assignment page. - Submit self-checked answers to the assigned textbook and worksheet Qs on time - Turn in any other online assignment on eSyllabus on time. (A 10 % deduction per one class delay is applied due to late submission of an assignment.)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	- The purpose of the portfolio is to provide evidence of student`s chemistry knowledge, learning development, process skills, and attitudes. - Portfolio evaluation is based on documentation of evidence of learning and journal entry that reflects students' understanding of their gained learning skills. (Refer to the Portfolio Grading Criteria on eSyllabus)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①	✓	Grading criteria of this section are as follows: (Refer to the Note Taking Rubric on eSyllabus) 1- Clear and organized class notes showing all the covered topics. 2- Clear and organized lab reports of the performed experiments 3- Response in a proper manner to orally asked Qs by teachers or classmates 4- Safety procedures are followed at all times. 5- Cleanliness of laboratory and hygiene that leads to efficiency in all procedures and class flow.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are able to: - answer and give explanations of the essential questions by applying the taught chemistry knowledge and concepts. - design and perform experiments safely to find solutions or propose an explanation. - apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - analyze, evaluate, or design a solution to a real-world problem by connecting their gained chemistry knowledge to daily lives and other subjects or fields of study.	Students are able to: - answer the essential questions by applying the taught chemistry knowledge. - perform experiments safely, make observations, analyze given data, and use scientific thinking to draw conclusions - apply their problem-solving skills to solve problems whose solutions require multiple steps. - connect their gained chemistry knowledge to daily lives and other subjects or fields of study.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Properties of Solutions -Identify the factors that affect how fast a substance dissolves. - Describe the equilibrium in a saturated solution and the factors that affect the solubility of a substance.	- Lecture - Practice problems - Exercises	- Read Lesson 16.1 - Answer Lesson 16.1 Book Qs.	30
2 /	Concentrations of Solutions - Calculate the molarity of a solution. - Describe the effect of dilution on the total moles of solute in solution. -Express solution concentration as a percent by volume or percent by mass.	- Lecture - Practice problems - Exercises	- Read Art of The Pickle p.532-533 - Answer Lesson 16.2 Book Qs.	30
3 /	Colligative Properties of Solutions - Explain how colligative properties can be explained on a particle basis. - Identify the two ways of expressing the ratio of solute to solvent in a solution.	- Lecture - Practice problems - Exercises	- Read Lessons 16.3 and 16.4 - Answer Lesson 16.3 and Lesson 16.4 Book Qs.	30
4 /	Colligative Properties of Solutions -Describe how the freezing-point depression and boiling-point elevation are related to molality.	- Lecture - Small-Scale Lab	- Read Small-Scale lab p. 545 - Prepare for Chapter 16 General Test	30
5 /	The Flow of Energy - Explain how energy changes can occur. - Explain the law of conservation of energy. - Identify two factors on which the heat capacity of an object depends.	- Chapter 16 General Test - Lecture - Class activity to compare heat transfer of different materials.	- Read Lesson 17.1 - Answer Lesson 17.1 Book Qs.	30
6 /	Measuring and Expressing Enthalpy - Describe how to measure the change in enthalpy of a reaction. - Describe how to express the enthalpy change for a reaction in a chemical equation.	- Lecture - Teacher demo of an exothermic reaction. - Group activity	- Read Lesson 17.2 - Answer Lesson 17.2 Book Qs.	30
7 /	Heat Changes of State - Compare the quantity of heat absorbed by a melting solid to the quantity released when the state of matter changes. - Describe the thermochemical changes that occur when a solution forms.	- Lecture - Lab - Practice Problems - Exercises	- Read Lesson 17.3 - Answer Lesson 17.3 Book Qs.	30
8 /	Calculating Heats of Reaction - Identify two ways to determine the heat of the reaction when it cannot be directly measured.	- Lecture - Small-Scale Lab	- Read and prepare for Small-Scale Lab p. 583 - Answer Lesson 17.4 Book Qs. -Prepare for Chapter 17 General Test.	30
9 /	Rates of Reaction - Describe how to express the rate of a chemical reaction. - Identify four factors that influence the rate of a chemical reaction.	- Chapter 17 General Test. - Quick Lab - Lecture - Exercises	- Read Quick Lab p. 600 - Read Catalytic Converter - Answer Lesson 18.1 Book Qs.	30
10 /	The progress of Chemical Reactions - Describe the relationship between the specific rate constant's value and the chemical reaction's speed. - Describe how most reactions progress from start to finish.	- Lecture - Class Activity	- Read Lesson 18.2 - Answer Lesson 18.2 Book Qs.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Reversible Reactions and Equilibrium - Describe what happens at the molecular level in a chemical system at equilibrium. -Describe what the size of an equilibrium constant indicates about a system at equilibrium.	- Lecture - Practice problems - Exercises	- Read Lesson 18.3 - Answer Lesson 18.3 Book Qs.	30
12 /	Solubility Equilibrium - Describe the relationship between the solubility product constant and the solubility of a compound. -Predict whether precipitation will occur when two solutions are mixed.	- Lecture - Teacher Demo - Practice problems - Exercises	- Read Lesson 18.4 - Answer Lesson 18.4 Book Qs.	30
13 /	Free Energy and Entropy - Identify the part entropy plays in a chemical reaction. - Identify the two factors that determine whether a reaction is spontaneous.	- Lecture - Practice problems - Exercises	- Search about “Wildfires”. - Answer Lesson 18.5 Book Qs.	30
14 /	Free Energy and Entropy - Identify the part entropy plays in a chemical reaction. - Identify the two factors that determine whether a reaction is spontaneous.	- Small-Scale Lab	- Read Small-Scale Lab p. 635 - prepare for Chapter 18 General Test.	30
15 /	General Review - Review Chapters 16, 17, and 18.	- Chapter 18 General Test - Evaluating and reflecting on the progress of one's learning. - School Questionnaire	- Prepare for the Final Exam - Finalize the Portfolio	
16 /	Final Exam	- Evaluating the progress of one's learning. - Submit the Chemistry A Portfolio.		
17 /	Returning Final Exam results.	- Return the graded exams and portfolios - Evaluating and reflecting on the progress of one's learning.		

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept.S General Required	Chemistry B	1	612500	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	RASHED, Nagwa Fekri	Hakusanroku C 101.201		Friday 16:40-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	pH	In this course, students will use pH to classify a solution as neutral, acidic, or basic. They will also describe redox reactions and relate them to electrochemical processes. Students will also explore the physical and chemical properties of organic compounds, which comprise most natural substances such as fuels, foods, and petrochemicals. Furthermore, they will connect the concepts covered to industrial and daily life applications.
2	Neutralization Reactions	
3	Redox Reactions	
4	Electrochemistry	
5	Organic chemistry	

Course Description and Expectations for Students (10.5pt)

Chemistry B will include interactive lectures, lab demonstrations, problem-solving exercises, group experiments, peer teaching, investigative learning, and reflective learning, which are types of active learning.

For better achievements in the course, please consider the following:
- Students' safety comes first, so be constantly aware of your safety by following the Chemistry Lab Safety Rules.
- Check eSyllabus regularly for updates.
- Preview the specified sections in the textbook and other resources before attending class.
- Keep taking notes during class time.
- Participate actively in discussions by asking questions and sharing ideas with teachers and classmates.
- To build your portfolio, keep all the materials, such as class notes, experiment reports, and other assignments, in a folder

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: SAVVAS Chemistry (SAVVAS) ISBN 978-1-323-21353-7
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

- Analysis and problem-solving.
- Time management and organization.
- Written and oral communication.
- Monitoring/maintaining records and data.
- Teamwork and research.

No.	Program Objectives	Target Abilities for Students (9pt)
①	d, h, i	Students will be able to define acids, bases, and salts.
②	d, h, i	Students will be able to identify the meaning of the pH of a solution.
③	d, h, i	Students will be able to describe oxidation-reduction reactions.
④	d, h, i	Students will be able to relate redox reactions to electrochemical processes.
⑤	d, h, i	Students will be able to classify basic organic compounds.
⑥	d, h, i	Students will be able to explore the properties of organic compounds.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		30	20	15	0	0	20	15	100
Comprehensive Strength Criteria	Ability to capture knowledge	15	10	4	0	0	5	4	38
	Ability to think, reason, and create	15	10	4	0	0	5	4	38
	Collaboration and leadership	0	0	0	0	0	0	3	3
	Announcement / Expression / Communication	0	0	3	0	0	5	0	8
	Attitude and motivation for learning	0	0	4	0	0	5	4	13

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	The final exam is a cumulative exam for all chapters/topics taught.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	- Chapter General Tests will be held for each chapter.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students are expected to do the following: - Include the lesson title, student`s full name, and number at the top of each assignment page. - Submit self-checked answers to the assigned textbook and worksheet Qs on time - Turn in any other online assignment on eSyllabus on time. (A 10 % deduction per one-day delay is applied due to late submission of an assignment.)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	- The purpose of the portfolio is to provide evidence of student`s chemistry knowledge, learning development, process skills, and attitudes. - Portfolio evaluation is based on documentation of evidence of learning and journal entry that reflects students' understanding of their gained learning skills. (Refer to the Portfolio Grading Criteria on eSyllabus)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①	✓	Grading criteria of this section are as follows: (Refer to the Note Taking Rubric on eSyllabus) 1- Clear and organized class notes showing all the covered topics. 2- Clear and organized lab reports of the performed experiments 3- Response in a proper manner to orally asked Qs by teachers or classmates 4- Safety procedures are followed at all times. 5- Cleanliness of laboratory and hygiene that leads to efficiency in all procedures and class flow.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are able to: - answer and give explanations of the essential questions by applying the taught chemistry knowledge and concepts. - design and perform experiments safely to find solutions or propose an explanation. - apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - analyze, evaluate, or design a solution to a real-world problem by connecting their gained chemistry knowledge to daily lives and other subjects or fields of study.	Students are able to: - answer the essential questions by applying the taught chemistry knowledge. - perform experiments safely, make observations, analyze given data, and use scientific thinking to draw conclusions - apply their problem-solving skills to solve problems whose solutions require multiple steps. - connect their gained chemistry knowledge to daily lives and other subjects or fields of study.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Acid-Base Theories - Define an acid and a base according to Arrhenius and Lewis. - Distinguish an acid from a base in Bronsted-Lowery theory.	- Lecture - Practice Problems - Exercises	- Read Lesson 19.1 - Answer Lesson 19.1 Book Qs.	30
2 /	Hydrogen Ions and Acidity - Describe ho $[H^+]$ and $[OH^-]$ are related in an aqueous solution. - Using pH, classify a solution as neutral, acidic, or basic and identify two methods to measure pH.	- Lecture - Teacher Demo - Practice Problems - Exercises	- Read “Agronomist” p. 663 - Answer Lesson 19.2 Book Qs.	30
3 /	Strength of Acids and Bases &Neutralization Reactions and Salts in Solutions - Describe how acids and bases are described as strong or weak. - Identify the products that form when an acid and a base react and the equivalence point.	- Lecture -Teacher Demo - Practice Problems - Exercises	- Answer Lesson 19.39.4 and 19.5 Book Qs. - Prepare for Chapter 19 General Test	30
4 /	The Meaning of Oxidation and Reduction - Describe what happens to a substance that undergoes oxidation and a substance that undergoes reduction. -Explain how the presence of salts and acids accelerates the corrosion of metals.	- Chapter 19 General Test - Lecture - Exercises	- Watch the eSyllabus videos. - Answer Lesson 20.1 Book Qs. - Read Fire Works p. 700.	30
5 /	Oxidation Numbers &Describing Redox Equations - State the general rules for assigning oxidation numbers. - Define oxidation and reduction in terms of a change in oxidation number - Identify the two classes of chemical reactions.	- Lecture - Practice Problems - Exercises	- Read Lesson 20.2 - Answer Lesson 20.2 Book Qs. - Read Mineral Colors p. 716	30
6 /	Electrochemical Cells - Describe how a voltaic cell produces electrical energy. - Identify the current applications that use electrochemical processes to produce electrical energy.	- Lecture - Practice Problems - Exercises	- Read Lesson 21.1 - Answer Lesson 21.1 Book Qs.	30
7 /	Half-cells and Cell Potentials - Identify what causes the electrical potential of an electrochemical cell. - Determine the standard reduction potential of a half-cell and if a redox reaction is spontaneous or nonspontaneous.	- Lecture - Exercises - Practice Problems - Exercises - Teacher Demo	- Read “A Lemon Battery” p.744. - Answer Lesson 21.2 Book Qs.	30
8 /	Electrolytic Cells - Distinguish between electrolytic and voltaic cells. - Describe some applications that use electrolytic cells.	- Lecture - Exercises - Practice Problems - Exercises - Teacher Demo	- Read Quick Lab p.750 and Small-Scale Lab p. 752 - Prepare for Chapter 20 &21 General Test.	30
9 /	Hydrocarbons - Explain why a carbon atom forms four covalent bonds. - Identify two possible arrangements of carbon atoms in an alkane.	- Chapters 20 & 21 General Test - Lecture - Class Activity - Practice Problems	- Read Lesson 22.1 - Answer Lesson 22.1 Book Qs.	30
10 /	Unsaturated Hydrocarbons and Isomers - Describe the structural characteristics of alkenes and alkynes -Explain how the properties of constitutional isomers differ. -Identify two types of stereoisomers.	- Lecture - Class Activity - Practice Problems	- Read Lesson 22.2 and 22.3 - Answer Lessons 22.2 and 22.3 Book Qs.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Hydrocarbon Rings and Hydrocarbons from Earth`s Crust - Identify the general structure of a cyclic hydrocarbon and bonding in a benzene ring - Identify the hydrocarbons in natural gas and the first step in refining petroleum.	- Lecture - Practice Problems - Exercises	- Read Lessons 22.4 and 22.5 - Answer Chapter 22	30
12 /	Introduction to Functional Groups - Classify organic compounds. -Identify the general formula of a halocarbon. -Describe how substitutional reactions are used in organic chemistry.	- Lecture - Teacher Demo	- Read Lesson 23.1 - Answer Lesson 23.1 Book Qs	30
13 /	Alcohols, Ethers, and Amines - Identify the general formula of an alcohol. - Explain how addition reactions are used in organic chemistry. - Identify the general formula of an ether. - Identify the general formula of an ester.	- Lecture -Practice Problems - Exercises	- Read Lesson 23.2 - Answer Lesson 23.2 Book Qs.	30
14 /	Carbonyl Compounds and Polymers - Identify the structural characteristics that an aldehyde and acetone share. - Identify the general formula of carboxylic acid and an ester. -Describe how polymers are formed.	- Lecture - Practice Problems - Exercises -Teacher Demo	- Read Lessons 23.3 and 23.4 - Prepare for Chapter22 & 23 General Test.	30
15 /	General Review - Review Chapters 19, 20, 21, 22 and 23	- Chapters 22 &23 General Test - Evaluating and reflecting on the progress of one's learning. - School Questionnaire	- Prepare for the Final Exam - Finalize the Portfolio	
16 /	Final Exam	- Evaluating the progress of one's learning. - Submit the Chemistry B Portfolio.		
17 /	Returning Final Exam Results.	- Return the graded exams and portfolios - Evaluating and reflecting on the progress of one's learning.		

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	Biology A	1	624500	First	Experiment Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	ATILLO, Krishia	Hakusanroku C: 101.201		

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Life	In this course, students will understand the basics of life and the principles of ecology. Students will explore and analyze the lessons through different hands-on and engaging activities that spark the student's interest in biology. Furthermore, this course teaches how different parts work together and is transferrable to engineering, wherein systems thinking is essential for designing and improving everything from machines to software.
2	Cells	
3	Photosynthesis	
4	Cellular Respiration	
5	Ecology	

Course Description and Expectations for Students (10.5pt)

The course will offer varied hands-on learning activities and inquiry-based lectures and discussions.
This course will tackle the scientific study of life, cells, which are the units of life, photosynthesis, cellular respiration, organisms and their relationships, flow of energy in an ecosystem, cycling of matter, communities, biomes, and ecosystems. Students will be given ample time to complete their worksheets or activities in class. Lesson presentations will accompany each class and will be available for the students. To attain the objectives of this course, students are encouraged to be creative and participative. Students are also expected to turn in their worksheets and activities and prepare for presentations.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None
Reference books: Biology Concepts & Investigations 5th Ed/Glencoe Biology ISBN: 9781260575880/9780076774289
Reserved books: None

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have analysis and problem-solving skills, creativity, and basic computer skills for this course.

No.	Program Objectives	Target Abilities for Students (9pt)
①	h, i	Students will be able to explain what is life in his/her own understanding.
②	h, i	Students will be able to classify different cell types (plant and animal) and specify the function(s) of each.
③	h, i	Students will be able to describe the major features and chemical events in photosynthesis and cellular respiration.
④	h, i	Students will be able to illustrate the major features and sequence the chemical events of cellular respiration.
⑤	h, i	Students will be able to define the interactions between the levels of biological communities.
⑥	h, i	Students will be able to simplify how different biomes are distinguished based on climate and its features.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	0	40	60	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	10	10	0	0	0
	Ability to think, reason and create	0	0	0	10	20	0	0	0
	Collaboration and leadership	0	0	0	10	10	0	0	0
	Announcement / Expression / Communication	0	0	0	10	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	20	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		The process of photosynthesis and cellular respiration will be described, clarified, and illustrated by the students. Students will be given rubrics to use as a guide during their presentations. Since they have to create a poster about photosynthesis and cellular respiration, students will have plenty of time to get ready. Forty percent (40%) of the total grade is based on the presentation.
	②		
	③	✓	
	④	✓	
	⑤		
	⑥		
Works	①	✓	There will be activities, experiments, and worksheets to be completed in the lessons tackled in class. Students need to answer and complete all the required works within the given time allotted in class. In case time is not sufficient during class, they will be given extra time to complete the work. Sixty percent (60%) of the total grade is based on the works.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will foster a deeper sense of understanding about life and the different cell types. Students will appreciate the importance of photosynthesis and cellular respiration. Students will strengthen their critical thinking skills regarding how interactions affect the different levels of biological communities. Students will learn how to investigate and discuss the different biomes based on its climate and features.	Students will gain more knowledge regarding life and cells. Students will be more aware of the importance of photosynthesis and cellular respiration and the different principles of ecology.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Course Syllabus discussion The Scientific Study of Life - What is Life?	Card Activity Lesson		
2 /	The Scientific Study of Life - The Tree of Life Includes Three Main Branches	Lesson The Classification of Organism Worksheet	Animal Classification Infographic Activity	30
3 /	The Scientific Study of Life - Scientists Study the Natural World	Lesson Experiment: Mystery Powder – Inquiry Lesson on Observation and Food Testing	Laboratory report	30
4 /	Cells - Cells are the Units of Life	Lesson Experiment: Observe Onion and Cheek Cells	Laboratory report	30
5 /	Cells - Different Cell Types Characterize Life's Three Domains	Lesson Activity: 3D Animal and Plant Cell Model using clay		
6 /	Cells - Different Cell Types Characterize Life's Three Domains	Continuation Activity: 3D Animal and Plant Cell Model using clay		
7 /	Photosynthesis	Lesson Activity: Photosynthesis Oral Recitation with Poster	Preparation for Oral Recitation	30
8 /	Photosynthesis	Activity: Photosynthesis Oral Recitation with Poster	Presentation	20
9 /	Cellular Respiration	Lesson Activity: Cellular Respiration Oral Recitation with Poster	Preparation for Oral Recitation	30
10 /	Cellular Respiration	Activity: Cellular Respiration Oral Recitation with Poster	Presentation	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Principles of Ecology - Organisms and Their Relationships	Lesson Data Analysis Lab	Laboratory report	30
12 /	Principles of Ecology - Flow of Energy in an Ecosystem	Lesson Mini Lab	Laboratory report	30
13 /	Principles of Ecology - Cycling Matter	Lesson Experiment: Test for Nitrates	Laboratory report	30
14 /	Communities, Biomes, and Ecosystems - Community Ecology - Terrestrial Biomes	Interactive Lesson	Worksheet	30
15 /	Communities, Biomes, and Ecosystems - Aquatic Ecosystems	Interactive Lesson	Worksheet	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Elective	Biology B	1	624600	Second	Experiment Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	ATILLO, Krishia	Hakusanroku C: 101.201		

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Human Body Systems	In this course, students will understand the different human body systems, genetics, and biotechnology. Students will explore and analyze the lessons through different hands-on and engaging activities that spark the student's interest in biology.
2	Genetics	
3	Biotechnology	
4		
5		

Course Description and Expectations for Students (10.5pt)

The course will offer varied hands-on learning activities and inquiry-based lectures and discussions.
This course will tackle the different human body systems, genetics including molecular genetics, and biotechnology.
Students will be given ample time to complete their worksheets or activities in class. Lesson presentations will accompany each class and will be available for the students. To attain the objectives of this course, students are encouraged to be creative and participative. Students are also expected to turn in their worksheets and activities and prepare for presentations if needed.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None
Reference books: Biology Concepts & Investigations 5th Ed/Glencoe Biology ISBN: 9781260575880/9780076774289
Reserved books: None

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have analysis and problem-solving skills, creativity, and basic computer skills for this course.

No.	Program Objectives	Target Abilities for Students (9pt)
①	h,i	Students will be able to show how humans maintain homeostasis within the human body.
②	h,i	Students will be able to illustrate the major divisions of the nervous system.
③	h,i	Students will be able to predict genotype and phenotype of parents and offspring using laws of inheritance.
④	h,i	Students will be able to make a pedigree analysis in the learner's family using a simple genetic trait.
⑤	h,i	Students will be able to create a model of the DNA.
⑥	h,i	Students will be able to describe the importance of biotechnology.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	0	40	60	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	10	10	0	0	0
	Ability to think, reason and create	0	0	0	10	20	0	0	0
	Collaboration and leadership	0	0	0	10	10	0	0	0
	Announcement / Expression / Communication	0	0	0	10	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	20	0	0	0

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	✓	Creating models of lungs, digestive system, and DNA will be described, clarified, and explained by the students. Students will be given rubrics to use as a guide during their presentations. Since they have to create a model for lungs, digestive system, and DNA, students will have plenty of time to get ready. Forty percent (40%) of the total grade is based on the presentation.
	②		
	③		
	④		
	⑤	✓	
	⑥		
Works	①	✓	There will be activities, experiments, and worksheets to be completed in the lessons tackled in class. Students need to answer and complete all the required works within the given time allotted in class. In case time is not sufficient during class, they will be given extra time to complete the work. Sixty percent (60%) of the total grade is based on the works.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students will foster a deeper sense of understanding about the different human body systems. Students will appreciate the importance of learning genetics and basic patterns of human inheritance. Students will learn how to describe and discuss the importance of learning biotechnology.	Students will gain more knowledge regarding human body systems. Students will be more aware of the importance of genetics and biotechnology in today's world.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Course Syllabus discussion The Human Body Systems - The Integumentary System	Lesson Experiment: Examine Chicken Skin	Laboratory report	30
2 /	The Human Body Systems - The Skeletal and Muscular Systems	Lesson	Worksheet	20
3 /	The Human Body Systems - The Skeletal and Muscular Systems	Experiment: Examine Chicken Bone Attachments	Laboratory report	30
4 /	The Human Body Systems - The Nervous System	Lesson Data Analysis Lab	Laboratory report	30
5 /	The Human Body Systems - The Nervous System: The Senses	Lesson Experiment: Investigate Adaptations to Darkness	Laboratory report	30
6 /	The Human Body Systems - The Circulatory System	Lesson	Worksheet	20
7 /	The Human Body Systems - The Circulatory System	Experiment: Pig Heart Dissection	Laboratory report	30
8 /	The Human Body Systems - The Respiratory System	Lesson Activity: Make a Lung Model	Presentation	30
9 /	The Human Body Systems - The Digestive System	Lesson Activity: Digestive System Model Making using clay	Presentation	30
10 /	The Human Body Systems - The Reproductive System	Lesson	Worksheet	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Genetics - Mendellian Genetics	Lesson Activity: Predict Probability in Genetics		
12 /	Genetics - Basic Patterns of Human Inheritance	Lesson Activity: Investigate Human Pedigree		
13 /	Genetics - Molecular Genetics	Lesson Activity: Make a DNA Model	Preparation for making a DNA model	30
14 /	Genetics - Molecular Genetics	Activity: Make a DNA Model	Presentation	20
15 /	Biotechnology	Lesson	Worksheet	20

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Health and Physical Education IIA	1	612800	First	Exercises / Practice Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TAKIMOTO, Akihiro / CADZOW, Philip	Hakusanroku C 101 Gym		Friday 16:30-17:30

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Table tennis	The student will develop their skills in table tennis.
2	Badminton	The student will increase their badminton skills.
3	VO2 training	The student will learn how to train their VO2 max through running.
4	Sport skill training	The student will learn how to train to improve at their chosen sport.
5	Sportsmanship	The student will use and develop sportsmanship through sport.

Course Description and Expectations for Students (10.5pt)

- Students will lead and engage in discussions about respectful sportsmanship behaviour, to create a contract for behaviours inside class. These discussions will be facilitated by the teacher, but student led and seek to create an atmosphere of active learning for the whole class.
- This course will have students engage in running for cardiovascular health and expects students to self-manage emotional and mental effort over the course of the whole semester to realize the learning potential of continued effort. Rainy days may result in training or bouldering where the student is expected to build active learning attitudes such as fortitude through failure.
- This course will cover independent practice in the form of a self-chosen badminton skill and another skill from any sport or activity deemed safe and reasonable.
- Not having correct PE clothes will result in not being able to participate in the lesson and hence missing out on points. Reasonable absences will be appointed makeup work for points missed. Injuries will be given alternate work for the points they would otherwise miss.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
School sports uniform, Indoor sports shoes, Outdoor sports shoes, Water bottle

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

No prior skills or knowledge are required for this course.

No.	Program Objectives	Target Abilities for Students (9pt)
①	d	Students will learn how to train their body correctly for a healthy life.
②	f	Students will be able to learn from failure and develop fortitude.
③	i	Students will develop confidence in their abilities and work with a sincere heart.
④	i	Students will learn the value of enjoying sports and the lifelong benefits of exercise.
⑤	c	Students will be able to support each other in learning new skills.
⑥	b	Students will become accustomed to working for the good of others.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	0	0	100	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	10	0	0	10
	Ability to think, reason and create	0	0	0	0	20	0	0	10
	Collaboration and leadership	0	0	0	0	50	0	0	50
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	20	0	0	30

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✔	**Running: 20%**
	②	✔	**Running Homework: 10%**
	③	✔	**Sport skill – badminton skill 10%**
	④	✔	**Sport skill – Choice 10%**
	⑤	✔	**Sportsmanship 50%**
	⑥	✔	
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Arrives on time and in the right uniform. Cleans or sets up for class to a high standard (properly shakes the mops and nets are tied nicely. Completes the daily warm up with proper care and diligence. Great effort during training, going above the requirements for the day. Completes the small learning games with high concentration and looks for opportunities to encourage other students and their learning.	Arriving on time, in the correct uniform. Cleans or sets up for class to a good standard. Completes the daily warm up. Enough effort in training to complete the day's challenge with minimal disturbance to others. Completes the small learning games to the best of their effort.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus explanation Interval running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
2 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
3 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
4 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
5 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
6 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
7 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
8 /	Running Badminton	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
9 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
10 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
12 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
13 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
14 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
15 /	Running Selected skill Table tennis	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S General Required	Health and Physical Education IIB	1	612900	Second	Exercises / Practice Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	TAKIMOTO, Akihiro / CADZOW, Philip	Hakusanroku C 101 Gym		Friday 16:30-17:30

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Tournament	The student will utilise their knowledge of training.
2	Bouldering	The student will develop their sportsmanship through competitions.
3	Badminton	The student will develop their proprioception through various sports.
4	Basketball	The student will grow their cooperation through teamwork sports.
5	Volleyball	The student will engage in sport to promote lifelong health.

Course Description and Expectations for Students (10.5pt)

This course will use sport games and peer coaching to create an environment that promotes active learning for the student. Games will create situation-based learning that allow for students to develop and integrate their understanding of tactics and skills of the sport.

Competition will allow for the student to actively utilise their sportsmanship in relation to other students in how they conduct themselves in loosing or winning and in keeping respectful interactions with all players and the referee. Active learning will also take place though reflecting on the skills and abilities that they have gained over their time at this school.

Every week we will play sports games that the students have learned throughout the years at Hakusan Campus. Badminton, Volleyball, Basketball, and others.

Every 3rd week will be Bouldering

Required Materials (textbooks, reference books, reserved books) (10.5pt)

School sports uniform, Indoor sports shoes, Outdoor sports shoes, Water bottle

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

No prior skills or knowledge are required for this course, but having a good base skill in sport is recommended.

No.	Program Objectives	Target Abilities for Students (9pt)
①	D	Students will learn how to train their body correctly for a healthy life.
②	F	Students will be able to learn from failure and develop fortitude.
③	I	Students will develop confidence in their abilities and work with a sincere heart.
④	I	Students will learn the value of enjoying sports and the lifelong benefits of exercise.
⑤	C	Students will be able to support each other in learning new skills.
⑥	B	Students will become accustomed to working for the good of others.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	0	40	30	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	0	15	0	15
	Ability to think, reason and create	0	0	0	0	0	15	0	15
	Collaboration and leadership	0	0	0	0	20	0	0	20
	Announcement / Expression / Communication	0	0	0	0	20	0	0	20
	Attitude and motivation for learning	0	0	30	0	0	0	0	30

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✔	**28 points @ 30% of grade score** **Homework.** Every week, 2 types of training must be performed.
	②		
	③	✔	
	④	✔	
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✔	**35 points @ 40% of grade score** **Sports: 30 points.** Points allocated for participating in the games. 2 points per class. 1 point for each of the 2 main activities **Cleaning and setting up: 5 points.** 1 point each class for cleaning and setting up the equipment.
	②	✔	
	③	✔	
	④	✔	
	⑤		
	⑥	✔	
Portfolios	①	✔	**100 points @ 30% of grade score** **Bouldering sheet.** Complete challenges and earn points every 3rd week of class for 5 classes
	②	✔	
	③		
	④	✔	
	⑤	✔	
	⑥	✔	
Others	①		Not having correct PE clothes will result in not being able to participate in the lesson and hence missing out on points. Reasonable absences will be appointed makeup work for time missed. Injuries will be given alternate work for the points they would otherwise miss.
	②		
	③		
	④	✔	
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Arrives on time and in the right uniform. Cleans or sets up for class to a high standard (properly shakes the mops, and balls air pressure is checked. Great effort during training, going above the requirements for the day. Completes the small learning games with high concentration and looks for opportunities to encourage other students and their learning.	Arriving on time, in the correct uniform. Cleans or sets up for class to a good standard. Enough effort in training to complete the day's challenge with minimal disturbance to others. Completes the small learning games to the best of their effort.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus introduction Bouldering and Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
2 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
3 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
4 /	Bouldering and Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
5 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
6 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
7 /	Bouldering and Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
8 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
9 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
10 /	Bouldering and Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
12 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
13 /	Bouldering and Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
14 /	Sports	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100
15 /	Outside team sport games	Lecture and Active Learning/ online	Review class and conduct self-training in both fitness and sport skill.	100

令和７年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	ビジュアルアーツII	1	624700	前学期	実験・実習／履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	小髙　有普	白山麓C： 101.201		月～金16:30-17:30

授 業 科 目 の 学 習 教 育 目 標

キーワード		学習教育目標
1	感じる力	作品に込められた作者の意図あるいは制作に至った経緯、制作行程などから芸術の創造に対する思慮を深め、観察力・洞察力を養う。学生は、自己が表現者となり、個々の表現物についての言語化を図りながら、論理的思考能力を養う。最終的には、ビジュアル表現による変換をもって、理論と感性の調和による高度な成果の創出ができることを目標とする。エンジニアとして幅広い視野をもち、創造性の発揮と自己解決に至るため、気づき能力と具現化能力の育成を行う。
2	着眼点	
3	発想	
4	デザインプロセス	
5		

授業の概要および学習上の助言

①アイデアの言語化
　創造力を高めるために広い視野をもつ重要性を理解する。
　創造力を高めるために多くの情報をもつ重要性を理解する。
　創造したものの有効性なものに導くための論理的思考展開をする。
②アイデアの視覚化による思考
　創造力を高めるためには視覚化することが重要であることを理解する。（スケッチやモデルによる思考展開）
③アイデアの伝達
　自分の作品における思いを表現することにより学生の伝達スキルを磨く。
④作品の鑑賞
　15週は全員の作品をスクリーンで発表し、講評を受ける。これは自分以外の全作品を見て、評価し合うことでお互いの創造力を刺激し高めることを目的としている。

この授業ではアクティブラーニングの一環として、新たな発見から創造に至るまでの自ら導く創造的な活動を行います。

【教科書および参考書・リザーブドブック】
教科書：
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

丁寧に考え、丁寧に作ろうとする姿勢が必要です。
グラフィックソフトを使用するので作業時に使えるように復習しておくことが必要です。
すべての課題を提出期限に間に合うように必ず提出すること。
未提出課題が1つでもある場合、単位を認めない。
提出期限を守れなかった場合は減点となる。

No.	教育目標(DP) （記号表記）	学生が達成すべき行動目標
①	g	様々な角度からものごとを観察し、考えることができる
②	g	何が有効なアイデアなのかを見極めることができる
③	f	重要なポイントを整理し、簡潔に表現することができる
④	i	グラフィックソフトで何が出来るかを理解することができる
⑤	f,g,i	パネル化による視覚伝達を通して伝達スキルの重要性と有効性を理解できる
⑥	f	表現者の創造的活動への思いを理解することができる

達　成　度　評　価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	0	40	25	25	10	0	100
総合力指標	知識を取り込む力	0	0	10	0	0	5	0	15
	思考・推論・創造する力	0	0	20	15	10	0	0	45
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	5	5	10	0	0	20
	学習に取組む姿勢・意欲	0	0	5	5	5	5	0	20

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①		
	②		
	③		
	④		
	⑤		
	⑥		
レポート	①	レ	アイデアを確定するまでの内容とプロセスを評価 対象：１回～４回の課題
	②	レ	
	③	レ	
	④		
	⑤		
	⑥		
成果発表 （口頭・実技）	①		コンセプトを反映したモデルによる具現化を評価 対象：５回～９回の課題
	②	レ	
	③	レ	
	④	レ	
	⑤		
	⑥		
作品	①		グラフィックによる視覚伝達スキルと内容を評価 対象：１０回～１５回の課題(最終日に学生の発表を通じてルーブリック評価を行う)
	②		
	③		
	④	レ	
	⑤	レ	
	⑥	レ	
ポートフォリオ	①		創造的活動に対する取り組み姿勢を評価 対象：15週の学習レポート
	②		
	③		
	④		
	⑤		
	⑥	レ	
その他	①		
	②		
	③		
	④		
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
①構成力：深い思考による有効なアイデアとストーリー設定ができる ②展開力：思い描いたアイデアを有効な形に具現化することができる（モデル化） ③具現化：グラフィックソフトを介し優れた商品イメージを作る事ができる（完成イメージ） ④伝達力：グラフィックソフトを多様な場面で有効に利用することができる ⑤総合力：自分の発想内容をとても理解しやすく表現し伝える事ができる	構成力：アイデアとストーリー設定ができる ②展開力：思い描いたアイデアを形に具現化することができる（モデル化） ③具現化：グラフィックソフトを介し商品イメージを作る事ができる（完成イメージ） ④伝達力：グラフィックソフトを利用することができる ⑤総合力：自分の発想内容を表現し伝える事ができる

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	ガイダンス 芸術分野の思想とものづくりの思想について 観察 視点を変えてモノを見ることを知る	講義 観察と写真撮影 写真のまとめ	予習： 復習：作業遅延分の実施、調査①	20
2 ／	調査② テーマについての情報収集とまとめ	講義 インフォグラフィックによる構造の視覚化 レポート	予習：イラストレータの使い方 復習：作業遅延分の実施	30
3 ／	芸術や文化と思想を理解し、自らの考えを表現① アイデアをストーリーとしてまとめる	講義 インフォグラフィックによる構造の視覚化	予習：キーワードの抽出 復習：ストーリーの完成	30
4 ／	芸術や文化と思想を理解し、自らの考えを表現① 言語化したアイデアを視覚表現する	講義 スケッチ、モデル作成	予習：テーマの決定 復習：アイデアスケッチ完成	30
5 ／	芸術や文化と思想を理解し、自らの考えを表現① 言語化したアイデアを視覚表現する	講義 モデル作成	講義 モデル作成	30
6 ／	芸術や文化と思想を理解し、自らの考えを表現① 言語化したアイデアを視覚表現する	講義 モデル作成	講義 モデル作成	30
7 ／	芸術や文化と思想を理解し、自らの考えを表現① 言語化したアイデアを視覚表現する	講義 モデル作成	講義 モデル作成	30
8 ／	芸術や文化と思想を理解し、自らの考えを表現① 言語化したアイデアを視覚表現する	講義 モデル作成	講義 モデル作成	30
9 ／	芸術や文化と思想を理解し、自らの考えを表現① 個々のモデルを評価 多様な意見を理解し俯瞰的に本質を見つめ、思考する モデルのブラシュアップ	講義 スケッチ、モデル作成	講義 スケッチ、モデル作成	30
10 ／	芸術や文化と思想を理解し、自らの考えを表現② 相手の納得や感動を引き出す表現力(思考の概念図化) 合成データ作成（完成イメージ）	講義 合成作業	講義 合成作業	40

授業明細表

ＣＬＩＰ学習プロセスについて

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※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	芸術や文化と思想を理解し、自らの考えを表現② 合成データ作成（完成イメージ）	講義 合成作業	予習：制作計画のチェック 復習：作業遅延分の実施	30
12 ／	芸術や文化と思想を理解し、自らの考えを表現② 伝達手段を学びまとめる グラフィックコミュニケーション （パネルデータ作成）	講義 パネルデータ作業	予習：制作計画のチェック 復習：作業遅延分の実施	30
13 ／	芸術や文化と思想を理解し、自らの考えを表現③ 伝達手段を学びまとめる グラフィックコミュニケーション （パネルデータ作成）	講義 パネルデータ作業	予習：制作計画のチェック 復習：作業遅延分の実施	30
14 ／	芸術や文化と思想を理解し、自らの考えを表現③ 伝達手段を学びまとめる グラフィックコミュニケーション （パネルデータ作成）	講義 パネルデータ作業	予習：制作計画のチェック 復習：作業遅延分の実施	30
15 ／	成果発表 自己点検・自己評価	プレゼンテーション 自己点検	予習：発表準備	20

令和７年度　学習支援計画書

「担当教員名」欄の＊＝実務経験のある教員

授業科目区分	科 目 名	単位	科目コード	開講時期	授 業 形 態
国際理工学科 一般科目 選択	パフォーミングアーツ	1	624800	後学期	実験・実習 ／ 履修

対象学年	担当教員名	居室	電子メールＩＤ	オフィスアワー
2年	魚住　知子	白山麓C 101.201		授業時予約

授 業 科 目 の 学 習 教 育 目 標

	キーワード	学習教育目標
1	表現力	グローバルイノベーターとして国際社会で活躍するには、異文化の人々と協働の際のコミュニケーションが大切である。そのコミュニケーションを豊かで強力なものにするには、表現力が不可欠である。本授業では、歌唱、ナレーション、プレゼンテーションなどを学び体験し、各学生が独創的で強力な表現力を身につけることを目標とする。
2	独創性	
3	歌唱	
4	鑑賞	
5	パフォーマンス	

授業の概要および学習上の助言

一年生で受講したパフォーミングアーツＩの内容をさらに拡大し表現力を身につける。一年生で学習した正しい発声法を用いての歌唱を引き続き行うことにする。スタンダードナンバー、Ｊ－ＰＯＰ、ミュージカルナンバー、アニメソングなどを練習する。また、プレゼンテーション技術やアニメの吹き替えなども学び体験する。人前で発表することへの恥ずかしさを乗り越え挑戦を続けていく。クラスメイトのパフォーマンスに対して、常に敬意をもちまた前向きなアドバイスや感想が述べられるクラス環境と人間関係を構築する努力をお互い行うことが大切である。

この授業ではアクティブラーニングの一環として体験学習を行う。

【教科書および参考書・リザーブドブック】
教科書：
参考書：
ﾘｻﾞｰﾌﾞﾄﾞﾌﾞｯｸ：

履修に必要な予備知識や技能

プロのパフォーマンス、例えばミュージシャン、ダンサー、バラエティ番組の進行役などを、テレビで見ておくことが授業を受けることに大きく役立つ。人前で表現できる各自の得意分野について考えてみる。

No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標
①	f	正しい発声法を身につけ、歌唱できるようになる。
②	e	ナレーションや朗読ができるようになる。
③	i	歌唱やプレゼンテーションの際の表現技術を身につけることができるようになる。
④	d	クラスメイトのパフォーマンスをまじめに敬意をもって鑑賞できるようになる。
⑤		
⑥		

達 成 度 評 価

評価方法 指標と評価割合		試　験	クイズ 小テスト	レポート	成果発表 口頭・実技	作 品	ポートフォリオ	その他	合 計
総合評価割合		0	0	0	65	0	0	35	100
総合力指標	知識を取り込む力	0	0	0	0	0	0	0	0
	思考・推論・創造する力	0	0	0	0	0	0	0	0
	コラボレーションとリーダーシップ	0	0	0	0	0	0	0	0
	発表・表現・伝達する力	0	0	0	45	0	0	20	65
	学習に取組む姿勢・意欲	0	0	0	20	0	0	15	35

※総合力指標で示す数値内訳は、授業運営上のおおよその目安を示したものです。

評価の要点

評価方法	行動目標		評価の実施方法と注意点
試験	①		
	②		
	③		
	④		
	⑤		
	⑥		
クイズ 小テスト	①		
	②		
	③		
	④		
	⑤		
	⑥		
レポート	①		
	②		
	③		
	④		
	⑤		
	⑥		
成果発表 （口頭・実技）	①	レ	45%: 授業最終日に行われる発表会で、各自が準備し練習してきた歌唱、プレゼンテーション、朗読、楽器演奏、ダンスなどの態度、表現力、技術そして伝達力を評価する。 20%: 授業最終日に行われる発表会に取り組む姿勢と意欲、努力およびそれぞれの工夫を評価する。
	②	レ	
	③	レ	
	④	レ	
	⑤		
	⑥		
作品	①		
	②		
	③		
	④		
	⑤		
	⑥		
ポートフォリオ	①		
	②		
	③		
	④		
	⑤		
	⑥		
その他	①	レ	20%: 各授業で学習したパフォーマンスの発表時における態度、表現力、伝達力を評価する。 表現力そして伝達する力を評価する。 15%: 各授業で学習したパフォーマンスの発表時における取り組み、姿勢、意欲、工夫を評価する。 評価する。
	②	レ	
	③	レ	
	④	レ	
	⑤		
	⑥		

具体的な達成の目安

理想的な達成レベルの目安	標準的な達成レベルの目安
各授業での課題のパフォーマンスで、恥ずかしがらすに堂々とクラスの見本となるパフォーマンスを行うことができる。 最後の授業での発表会に、クラス中の大きな驚きと称賛の声を得るパフォーマンスを披露することができる。	各授業での課題のパフォーマンスを、勇気をもって挑戦することができる。 最後の授業での発表会のための準備と練習を行い、自分なりの表現力をもってパフォーマンスをやり遂げることができる。

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
1 ／	発声練習（腹式呼吸） 歌唱に挑戦 「ライラック」 「わっしょい　お祭り」	講義、発声、歌唱		
2 ／	歌唱の練習 「Lover, Come Back To Me」 発表	練習、歌唱、鑑賞		15
3 ／	課題曲の理解 発声練習（腹式呼吸） 「Lover, Come Back To Me」 「Run」 プロピアニストの伴奏で歌う	練習、歌唱、鑑賞	発声練習を行う	15
4 ／	歌唱の練習「New York New York」 「Run」 プロピアニストの伴奏で歌う	練習、歌唱、鑑賞	次回の課題曲を聴く	30
5 ／	課題曲の理解 発声練習（腹式呼吸） 歌唱に挑戦 「栄光の架橋」「TSUNAMI」	練習、歌唱、鑑賞	発声練習を行う	15
6 ／	歌唱の練習 楽器を用いて練習 「栄光の架橋」「TSUNAMI」	練習、歌唱、鑑賞	次回の課題曲を聴く	30
7 ／	吹き替えの理解 吹き替えの練習 吹き替えに挑戦	練習	吹き替えについて調べる	15
8 ／	吹き替えの練習 吹き替えの収録	練習、収録	収録	30
9 ／	ヒューマンビートボックスの理解 ヒューマンビートボックスの練習	練習、鑑賞	発声練習を行う	15
10 ／	ヒューマンビートボックスの練習 ヒューマンビートボックスの発表	練習、鑑賞	次回の課題曲を聴く	30

授業明細表

ＣＬＩＰ学習プロセスについて

一般に、授業あるいは課外での学習では：**「知識などを取り込む」→「知識などをいろいろな角度から、場合によってはチーム活動として、考え、推論し、創造する」→「修得した内容を表現、発表、伝達する」→「総合的に評価を受ける、ＧｏｏｄＷｏｒｋ！」**：のようなプロセス（一部あるいは全体）を繰り返し行いながら、応用力のある知識やスキルを身につけていくことが重要です。このような学習プロセスを大事に行動ください。
※学習課題の時間欄には、指定された学習課題に要する標準的な時間を記載してあります。学修単位科目については、各授業に応じた時間（例えば2単位科目の場合、予習・復習で200分／週）を取るよう努めてください。詳しくは教員の指導に従って下さい。

回数 日付	学習内容	授業の運営方法	学習課題(予習・復習)	時間(分)
11 ／	課題曲の理解 発声練習（腹式呼吸） 歌唱に挑戦 「糸」「地上の星」	講義、発声、歌唱	発声練習を行う	15
12 ／	歌唱の練習 「ひこうき雲」「真夏の夜の夢」	練習、歌唱、鑑賞	課題曲を歌う	15
13 ／	課題曲への理解 発声練習（腹式呼吸） 歌唱に挑戦 「Fly Me To The Moon」	講義、発声、歌唱	発声練習を行う	15
14 ／	歌唱の練習 「Night and Day」	練習、歌唱、鑑賞	パフォーマンス練習	115
15 ／	パフォーマンス発表 パフォーマンス鑑賞	発表、鑑賞	クラスメイトと互いの発表について話す	15

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Engineering Design IIA	2	710300	First	Experiment/Practice Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	MATSUSHITA, Omihito/OGAWA, Hayato/ KUSHIMA, Yoshihiro / KODAKA, Arihiro	Hakusanroku C: 101.201		Mon – Friday: 4:30 – 5:30 pm

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Problem-solving	In this course, students will practice with a problem-solving project, creating locally appropriate solutions and added values around Hakusanroku area. The students will learn the approaches to project planning, user research, and idea generation utilizing its local resources. The students will also cultivate abilities to find real problems with deeper insights and develop communication skills to propose solutions to communities appropriately.
2	Locally appropriate solutions	
3	Project planning	
4	User research	
5	Communication skills	

Course Description and Expectations for Students (10.5pt)

This course will offer project-based learning in class as a type of active learning.
The students will work on problem-solving projects themed under the societal, natural, or industrial environments of Hakusanroku area. The projects will mainly focus on agri-business utilizing local resources and technology development projects focusing on the animal damage prevention system and land resource utilization. Based on the group's project scopes, each group will work on their plans for business design and implementation, as well as technology development using AI, IoT, and other appropriate technologies. The work will be continued to the EDIIB course.

Advice on taking this class
- Act with appropriate manners and behaviors as important aspects of conducting research in local areas.
- Submit assignments on time. There will be penalty points if you are late to submit your assignments.
- Understand that this project is not a sequential process, rather it is a process of going back and forth by trials and errors
- Participate in class work autonomously. Don't afraid to challenge yourself and feel free to ask questions.

Required Materials (textbooks, reference books, reserved books)
Textbooks: None
Reference books: None
Reserved books: None

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

EDIA & IB: Team, task, and time management skills.
Understanding of design and user research methodology and mindsets.

No.	Program Objectives	Target Abilities for Students (9pt)
①	b, e, h	Students will be able to understand issues from different perspectives which the local communities face.
②	a, d, g	Students will be able to generate locally appropriate solutions or to develop technological functions to problems with teams.
③	a, d, g	Students will be able to make their idea concepts and goal plans to convey their important ideas.
④	f	Students will be able to deliver their findings and ideas effectively.
⑤	c, d	Students will be able to practice a problem-solving project efficiently using proper management methods.
⑥	i	Students will be able to show their attitudes to reflect on their own work objectively.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	20	30	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	5	5	10	4	0	24
	Ability to think, reason and create	0	0	5	5	10	4	0	24
	Collaboration and leadership	0	0	5	5	5	4	0	19
	Announcement / Expression / Communication	0	0	5	5	5	4	0	19
	Attitude and motivation for learning	0	0	10	0	0	4	0	14

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	レ	Report will include individual work report and personal reflection on own learning experience about project progress and outcomes. The format of the report will be announced by the instructors.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥	レ	
Presentations	①	レ	Students will give oral progress and final reports of their projects. The format of the presentation will be announced by instructors, such as slides, poster, and/or any other styles. Teachers will grade on presentation content and presentation etiquette. Rubric will be provided as a group.
	②	レ	
	③	レ	
	④	レ	
	⑤		
	⑥		
Works	①	レ	The format of works can be physical prototypes of solutions, concept diagrams, sketches, and other styles of visual aids and writing forms. The format will be announced by the instructors.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥		
Portfolios	①		Portfolios will include personal reflection on own leadership practice and learning experience through the project. The format of the portfolio will be announced by the instructors.
	②		
	③		
	④		
	⑤	レ	
	⑥	レ	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
- Student can define an appropriate problem statement logically based on their research data. - Student can propose creative, locally appropriate solutions. - Students can effectively work together with the team for a project.	- Student can define a problem statement based on their research data. - Student can propose locally appropriate solutions. - Students can work together with the team for a project.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	- Class Guidance - Introduction to SDGs, local revitalization, and smart agriculture - Group organization - Project goals and plans - Engineering Process - Leadership and followership	Lecture and group work	Prepare as instructed	
2 /			Finish class assignments and reflection	20
3 /	Agricultural and system environment 1 - Field arrangement - Farming situation in the area	Lecture and group work	Prepare as instructed	15
4 /			Finish class assignments and reflection	30
5 /	Agricultural and system environment 2 - Field arrangement and planting - Animal damage measurement 1	Lecture and group work	Prepare as instructed	15
6 /			Finish class assignments and reflection	20
7 /	Agricultural and system environment 3 - Animal damage measurement 2	Lecture and group work	Prepare as instructed	15
8 /			Finish class assignments and reflection	30
9 /	Agri-business sales and local resource utilization planning 1 Technology utilization planning 1	Lecture and group work	Prepare as instructed	15
10 /			Finish class assignments and reflection	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Agri-business sales and local resource utilization planning 2 Technology utilization planning 2	Lecture and group work	Prepare as instructed	15
12 /			Finish class assignments and reflection	20
13 /	Agri-business sales and local resource utilization planning 3 Technology utilization planning 3	Lecture and group work	Prepare as instructed	15
14 /			Finish class assignments and reflection	20
15 /	Agri-business sales and local resource utilization planning 4 Technology utilization planning 4	Lecture and group work	Prepare as instructed	15
16 /			Finish class assignments and reflection	20
17 /	Agri-business sales and local resource utilization planning 5 Technology System Design and Development 1	Lecture and group work	Prepare as instructed	15
18 /			Finish class assignments and reflection	20
19 /	Agri-business sales and local resource utilization planning 6 Technology System Design and Development 2	Lecture and group work	Prepare as instructed	15
20 /			Finish class assignments and reflection	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	Agri-business sales and local resource utilization planning 7 Technology System Design and Development 3	Lecture and group work	Prepare as instructed	15
22 /			Finish class assignments and reflection	20
23 /	Agri-business sales and local resource utilization planning 8 Technology System Design and Development 4	Lecture and group work	Prepare as instructed	15
24 /			Finish class assignments and reflection	20
25 /	Agri-business sales and local resource utilization environment Check 1 Technology System Design and Development 5 Project review and presentation prep 1	Lecture and group work	Prepare as instructed	15
26 /			Finish class assignments and reflection	20
27 /	Agri-business sales and local resource utilization environment Check 2 Project review and presentation prep 2	Lecture and group work	Prepare for the presentation	15
28 /			Finish class assignments and reflection	20
29 /	Final Presentation Planning for the next semester Self-Reflection	Group work Self-reflection	Prepare for the presentation	60
30 /			Finish class assignments and reflection	

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Engineering Design IIB	2	710400	Second	Experiment/Practice Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	MATSUSHITA, Omihito/OGAWA, Hayato/ KUSHIMA, Yoshihiro / KODAKA, Arihiro	Hakusanroku C: 101.201		Mon – Friday: 4:30 – 5:30 pm

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Problem-solving	The students will learn the approaches to implement the locally appropriate solutions, evaluate the effectiveness of solutions, their iteration, and sustainable implementation of their projects. The students will also cultivate a sense of ethics as a part of a local community and autonomy by reflecting on own involvement with the locals and on own actions to take.
2	Locally appropriate solutions	
3	Societal, natural, industrial environment	
4	Project planning	
5	Communication skills	

Course Description and Expectations for Students (10.5pt)

This course will offer project-based learning in class as a type of active learning.
The students will continue their regional problem-solving projects and technology development from Engineering Design IIA. Based on the group's project scopes, each group will work on their plans for business promotion and implementation and technology development using AI, IoT, and other appropriate technologies. Those outcome evaluation will be also required at the end of the semester.

Advice on taking this class
- Act with appropriate manners and behaviors as important aspects of implementation and evaluation in local areas.
- All the assignments must be submitted to pass the class. There will be penalty points if you are late to submit your assignments.
- Understand that this project is not a sequential process, rather it is a process of going back and forth by trials and errors.
- Participate in class work autonomously. Practice what they have planned to do in design research, ideation, prototyping, and evaluation stages.
- Please keep group work progress report to review later.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

EDIA & IB: Team, task, and time management skills.
Understanding of design and user research methodology and mindsets.
EDIIA: Understanding local issues

No.	Program Objectives	Target Abilities for Students (9pt)
①	d, e, g	Students will be able to co-create prototypes to better solve problems with stakeholders when necessary.
②	f	Students will be able to deliver the user experience stories using their solutions.
③	a, b, g	Students will be able to critically evaluate their solutions for better improvement.
④	g, h	Students will be able to create a possible roadmap to sustain their project.
⑤	c, d	Students will be able to implement a problem-solving project using proper management methods.
⑥	i	Students will be able to show their attitudes to reflect on their own work objectively.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	20	30	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	5	5	10	4	0	24
	Ability to think, reason and create	0	0	5	5	10	4	0	24
	Collaboration and leadership	0	0	5	5	5	4	0	19
	Announcement / Expression / Communication	0	0	5	5	5	4	0	19
	Attitude and motivation for learning	0	0	10	0	0	4	0	14

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	レ	Report will include individual work report and personal reflection on own learning experience about project progress and outcomes. The format of the report will be announced by the instructors.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥	レ	
Presentations	①	レ	Students will give oral progress and final reports of their projects. The format of the presentation will be announced by instructors, such as slides, poster, and/or any other styles. Teachers will grade on presentation content and presentation etiquette. Rubric will be provided as a group.
	②	レ	
	③	レ	
	④	レ	
	⑤		
	⑥		
Works	①	レ	The format of works can be physical prototypes of solutions, concept diagrams, sketches, and other styles of visual aids and writing forms. The format will be announced by the instructors.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥		
Portfolios	①		Portfolios will include personal reflection on own leadership practice and learning experience through the project. The format of the portfolio will be announced by the instructors.
	②		
	③		
	④		
	⑤	レ	
	⑥	レ	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
- Student can co-create effective locally appropriate solutions with stakeholders. - Student can evaluate their solutions effectively and critically to propose better iteration and sustainability plans. - Students can effectively work together with the team for a project.	- Student can co-create locally appropriate solutions with stakeholders. - Student can evaluate their solutions to propose better iteration. - Students can work together with the team for a project.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Class Guidance - Project reflection and review the goals of the projects Technology System Development & Implementation 1	Lecture and group work	Prepare as instructed	
2 /	Agri-Business Market Research Planning 1	Lecture and group work	Finish class assignments and reflection	20
3 /	Technology System Development & Implementation 2 Agri-Business Market Research Planning 2	Lecture and group work	Prepare as instructed	15
4 /		Lecture and group work	Finish class assignments and reflection	20
5 /	Technology System Development & Implementation 3 Agri-Business Sales Development 1	Lecture and group work	Prepare as instructed	15
6 /		Lecture and group work	Finish class assignments and reflection	20
7 /	Technology System Development & Implementation 4 Agri-Business Sales Development 2	Lecture and group work	Prepare as instructed	15
8 /		Lecture and group work	Finish class assignments and reflection	20
9 /	Technology System Development & Implementation 5 Agri-Business Sales Development 3	Project progress presentation	Prepare for the progress presentation	60
10 /		Lecture and group work	Finish class assignments and reflection	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per

week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	System Operation Check Evaluation 1 Recording measurements and analysis Agri-Business Sales Development 4	Lecture and group work	Prepare as instructed	15
12 /		Lecture and group work	Finish class assignments and reflection	20
13 /	System Operation Check Evaluation 2 Recording measurements and analysis Agri-Business Sales Development 4	Lecture and group work	Prepare as instructed	15
14 /		Lecture and group work	Finish class assignments and reflection	20
15 /	System Operation Check Evaluation 3 Recording measurements and analysis Agri-Business Sales Development 5	Lecture and group work	Prepare as instructed	15
16 /		Lecture and group work	Finish class assignments and reflection	20
17 /	System Implementation & Operation Check Evaluation 4 Recording measurements and analysis Agri-Business and local resource utilization outcome summary	Lecture and group work	Prepare as instructed	15
18 /		Lecture and group work	Finish class assignments and reflection	20
19 /	System Sustainability and Further Consideration 1 Agri-business prediction and local resource utilization outcome evaluation 1	Lecture and group work	Prepare for the progress presentation	60
20 /		Lecture and group work	Finish class assignments and reflection	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
21 /	System Sustainability and Further Consideration 2 Agri-business prediction and local resource utilization outcome evaluation 2	Lecture and group work	Prepare as instructed	15
22 /		Lecture and group work	Finish class assignments and reflection	20
23 /	System sustainability and expansion 1 - Improve user interface and maintenance. - Hardware software upgradability analysis Agri-business prediction and local resource utilization outcome evaluation 3	Project progress report	Prepare as instructed	15
24 /		Lecture and group work	Finish class assignments and reflection	20
25 /	System sustainability and expansion 2 - Improve user interface and maintenance. - Hardware software upgradability analysis Progress Report - Make the implementation and evaluation progress reports and plans. - Expand view of solution effect and causes Preparation for the final presentation	Lecture and group work	Prepare as instructed	15
26 /		Lecture and group work	Finish class assignments and reflection	20
27 /	Preparation for the final presentation	Lecture and group work	Prepare as instructed	20
28 /		Lecture and group work	Finish class assignments and reflection	60
29 /	Final Presentation Self-reflection	Presentation	Prepare as instructed	20
30 /		Self-reflection	Finish reflection	20

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Computer Skills IIA	1	711100	First	Experiment / Practice Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	OGAWA, Hayato / SANG-NGENCHAI, Apirak / HAN, Justin	HC 101.201		16:30 to 17:30 (Week day)

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Machine Learning	All Students must have a fundamental understanding of programming and machine learning architecture going into the 2nd year projects. The students will need experience in programming code to do Machine learning and use the provided modules to understand how the program is used to collect data, create training files and how AI responds to input data.
2	artificial intelligence	
3	Robotics	
4	IoT	
5	Python	

Course Description and Expectations for Students (10.5pt)

This class will cover basic robotic concepts using a Jetbot chassis and jetbot.org programming examples. Concepts such as programmatic motor control, Wi-Fi connectivity, custom artificial intelligence, rule-based machine learning, neural network convolution applications, neural network data collection and training will be introduced to students. Python programming is used in this class to use with Jetson Nano. The python code is broken down into section illustrating each section of coding and can be compiled individually for easier understanding of the python code and ease of trouble shooting, with the aid of Jupyter notebook coding environment. Arduino is introduced to students for understanding serial and digital information and circuitry.

Advice on taking this course:

・Have laptops or notebooks ready before class starts
・Check E-syllabus and box app often and download all files needed for today's lesson
・Submit assignments on time.
・Feel free to ask questions during office hour.

This course will offer discovery learning, problem-solving learning, experiential learning, investigative learning in class as a type of active learning.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Courses: Engineering Design I A&B, Engineering Context I A&B

No.	Program Objectives	Target Abilities for Students (9pt)
①	ahi	Students will be able to navigate and code python in Jupyter lab
②	ahi	Students will be able to implement Jetson nano for Machine learning exercises
③	ahi	Students will be able to implement Arduino with serial and digital signal circuits
④	ahi	Students will be able to control Arduino using personal mobile devices
⑤	ahi	Students will be able to receive Arduino data to own personal mobile devices
⑥		

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	0	70	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	10	0	20	0	0	30
	Ability to think, reason and create	0	0	10	0	20	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	0	20	0	0	25
	Attitude and motivation for learning	0	0	5	0	10	0	0	15

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✓	Evaluate performance of report regarding Jupyter notebook reading/lecture comprehension and retention of experimental setup.
	②	✓	
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		Evaluate each student's work in the programming of the robot and experimental setup.
	②		
	③	✓	
	④	✓	
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students understand the implementation of the experimental setup of image recognition and alert. With a general understanding of IoT and how AI is controlled and used. Program a AI system that can be custom to user and also can learn on its own to navigate through space. Students gain interest and motivation to design and conduct a project in ED2A/B.	Students understand the implementation of the experimental setup of image recognition and ability to control a robot chassis. With a general understanding of IoT and what AI is and how we can use it in our daily lives. Students gain interest and motivation to design and conduct a project in ED2A/B.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Syllabus guidance AI introduction Python introduction - Programming language Jupyter interface	- Intro into AI computing - Intro into python Jetbot chassis with Jetson setup	Store and note Jetbot number you use Connect Jetbot to charger	30
2 /	Jetson and Python introduction - Hardware introduction - Software introduction Connection information	- Jetbot chassis with Jetson setup cont	Make sure Jetbot is charged and ready to go Look for any loose parts and tighten Connect Jetbot to charger	30
3 /	Basic Motion 1 operation and understanding python code	Jupyter Lab interface use and wireless connection setup	Make sure Jetbot is charged and ready to go Look for any loose parts and tighten	30
4 /	Basic Motion 2 operation controlling the Jetbot wirelessly	- wireless network and computer setup	Jupyter Familiarization Answer questions on today's topics	30
5 /	Image recognition and using Machine learning data base Collision Avoidance operation 1	Understanding how to use Machine learning data	Answer questions on today's topics	30
6 /	Using images and convolution method to create model file Collision Avoidance operation 2 training for better avoidance in our world	Making own data for machine learning	Answer questions on today's topics Cont training	30
7 /	Collision Avoidance operation 3	Using student trained machine learning data	Answer questions on today's topics	30
8 /	Road Following operation 1 - Machine learning Course introduction and rules	New objective for machine learning	Answer questions on today's topics Cont training	30
9 /	Road Following operation 2 Road following Machine learning and collision avoidance model file creation	Extra rules and data entry for machine learning	Answer questions on today's topics Cont training	30
10 /	Road Following Operation wrap up - Course attack	Testing the model file created by student on road course	Answer questions on today's topics	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Object following 1 Image recognition and tacking Machine learning	Create model file to track one specific object	Answer questions on today's topics Cont training	30
12 /	Object Following 2 Test Model file	Testing the model file created by student to follow students or teacher	Answer questions on today's topics	30
13 /	IoT with Arduino - IOT Introduction presentation Learn Arduino 1	- Introduction to IOT and Arduino. - Software installation and preparation. Build a simple electronic circuit.	Arduino familiarization assignment	30
14 /	IoT with Arduino 2 - ESP8266 WIFI module introduction. IoT Project 1 (LED blinking)	- Learn how to use ESP8266 WIFI module. Plan and execute Project 1.	Project 1 execution and worksheet.	30
15 /	IoT with Arduino 3 - Project 2 (Smart Home)	Plan and execute Project 2	Project 2 execution and worksheet.	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Computer Skills IIB	1	711200	Second	Exercises Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	EVANS, Davis	Hakusanroku C: 101.201		Day of Class: 16:30 – 17:30

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Programming	Computer programming and computational thinking have been identified as essential skills in the 21st century. In this course, students will examine fundamental concepts of computer programming. They will also practice applying programming knowledge to other areas of STEM before choosing an area of interest to study in more depth on their own.
2	Self-Directed Learning	
3		
4		
5		

Course Description and Expectations for Students (10.5pt)

Computer programming has become essential in almost every field. Programs are used everywhere from performing routine tasks to solving complex problems. This course will introduce students to computer programming. Students will be able to apply their programming knowledge through creating interactive projects. After having been exposed to different types of computer applications and tools across their two years of Computer Skills courses, students will gain more in-depth experience in an application that interests them.

- Focus on class. Close unrelated programs on your laptop and listen when the teacher speaks.
- Check E-Syllabus for reading & assignments days before they are due.
- Submit each assignment on time, or talk to the teacher if you have trouble.
- Do not be afraid to ask questions.

This course implements active learning with a reverse classroom format, reading assignments are assigned as homework, which programming exercise work is done during class time.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks: *Python Crash Course, 3rd Edition,* No Starch Press, ISBN 978-1-7185-0270-3
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students must be able to use a PC to manage files and software. In addition to this knowledge, students must also be able to discover and use various resources for learning some new Information Technology (IT) topic.

No.	Program Objectives	Target Abilities for Students (9pt)
①	b	Recognize the importance of computational thinking in the modern world
②	h	Identify basic concepts of computer programming
③	e, i	Reflect on one's own interests to develop an idea for a self-directed project
④	a, h	Apply computer programming skills to other STEM fields
⑤		
⑥		

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	20	50	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	20	0	10	0	0	30
	Ability to think, reason and create	0	0	10	10	20	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	10	10	0	0	20
	Attitude and motivation for learning	0	0	0	0	10	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		Reports are assignments from the teacher that are written either by hand or digitally as part of in-class activities. They represent the student's learning of material taught during the guided exercises of each class. In general, if a student submits one of these assignments late, **their score will lose 20% of the maximum possible points** on the assignment. **Caution: work found to be copied from another student or the web without proper attribution will result in the offending student(s) receiving a 0 for that assignment**
	②	✓	
	③	✓	
	④	✓	
	⑤		
	⑥		
Presentations	①		There is a presentation at the end of the STEM programming project. Giving students an opportunity share their final work.
	②		
	③		
	④		
	⑤	✓	
	⑥		
Works	①	✓	Works are digitally created files that are uploaded at the time of submission. They show practical skills in the material that has been covered during class and represent the student's cumulative ability to apply what they learned. This includes all files and material related to the final STEM programming project. **Caution: work found to be copied from another student or the web without proper attribution will result in the offending student(s) receiving a 0 for that assignment**
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
① Recognize the value of having skills in programming ② Explain functions, classes, and lists ③ Design a programming solution to a STEM problem ④ Create a study plan for developing skills of interest	① Identify areas where programming is used ② Identify variables, conditional statements, and loops ③ Frame a STEM problem in programming terms ④ Choose a topic of interest for further studying

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Orientation and Review Students will receive an introduction to the course, install the necessary software.	Lecture Discussion Exercises	Review HTML & CSS from Computer Skills IB Read Chapter 1: The Basics in textbook	20 20
2 /	Variables and Data Types Students will learn about variables and simple data types	Lecture Exercises	Preview: Textbook Chapter 2 Review: The teacher will announce assignments in class.	30
3 /	Working with Lists Students will learn about lists in Python and how to use them to store data.	Lecture Exercises	Preview: Textbook Chapters 3 Review: The teacher will announce assignments in class.	30
4 /	Lists and Loops Students will learn about using loops and combining them with lists to process data repeatedly.	Lecture Exercises	Preview: Textbook Chapters 4 Review: The teacher will announce assignments in class.	30
5 /	If Statements Students will learn about if statements and other conditionals to allow for logic conditions in their programs.	Lecture Exercises	Preview: Textbook Chapters 5 Review: The teacher will announce assignments in class.	30
6 /	Dictionaries Students will learn about Python dictionaries and how they can be used to store various pieces of data which can be quickly retrieved.	Lecture Exercises	Preview: Textbook Chapters 6 Review: The teacher will announce assignments in class.	30
7 /	User Input and While Loops Students will learn how to incorporate user input into their program, and how to run a program indefinitely using while loops.	Lecture Exercises	Preview: Textbook Chapters 7 Review: The teacher will announce assignments in class.	30
8 /	Functions Students will learn about how to make functions to do repeated tasks.	Lecture Exercises	Preview: Textbook Chapters 8 Review: The teacher will announce assignments in class.	30
9 /	Classes Students will learn about grouping functions into classes to model real world objects.	Lecture Exercises	Preview: Textbook Chapter 9 Review: The teacher will announce assignments in class.	30
10 /	Classes Continued & Code Testing Students will learn how to use classes across different files, and how to create automated tests for their code.	Guidance Self-Study	Preview: Textbook Chapter 10 Review: The teacher will announce assignments in class.	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Programming STEM Project (1) Students will choose a project topic to implement with programming and devise a plan to create a solution.	Guidance Self-Study	Work on project Review: Textbook Chapter 11-20 (as needed)	30
12 /	Programming STEM Project (2) Students will develop their programming project	Guidance Self-Study	Work on project Review: Textbook Chapter 11-20 (as needed)	30
13 /	Programming STEM Project (3) Students will develop their programming project	Guidance Self-Study	Work on project Review: Textbook Chapter 11-20 (as needed)	30
14 /	Programming STEM Project (4) Students will finalize their programming project and prepare to present during the next class session.	Guidance Self-Study	T Work on project Review: Textbook Chapter 11-20 (as needed)	30
15 /	Programming STEM Project Presentation Students will present and demonstrate their finished project in front of the class.	Guidance Presentations	Submit all project files as directed by the teacher.	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Fundamentals of AI	1	711900	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	SANG-NGENCHAI, Apirak/ MATSUSHITA, Omihito	Hakusanroku C 101.201		Mon. 16.30 - 17.30

Course Objectives

Keywords (10.5pt)	Learning Objectives (10.5pt)
1 Artificial Intelligence. 2 Interprets human language. 3 visual information. 4 Ethical implications. 5 History	- Understand the basics and history of AI and its evolution. - Learn the principles of machine learning and its types - supervised and unsupervised learning. - Gain insights into the functionalities of neural networks and deep learning. - Explore how AI interprets human language and visual information. - Understand the application of AI in robotics, healthcare, and business. - Discuss the ethical implications and biases in AI technology.

Course Description and Expectations for Students (10.5pt)

This course will offer experiential learning in class as a type of active learning.
This comprehensive 15-lesson course provides a deep dive into the world of Artificial Intelligence (AI), offering students a thorough understanding of AI's fundamental principles, applications, and ethical considerations. Beginning with an introduction to AI, the course covers a broad spectrum of topics, including machine learning, data analysis, neural networks, natural language processing, computer vision, and the application of AI in robotics. Additionally, the course addresses crucial aspects of AI ethics and its impact on various sectors, such as manufacturing, healthcare, and business. Each lesson includes engaging activities, ranging from hands-on exercises and group projects to discussions and debates, fostering not only theoretical understanding but also practical skills and critical thinking.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Knowledge and experience learned and acquired so far

No.	Program Objectives	Target Abilities for Students (9pt)
①	a	Students will be able to analyze issues, collect information, and identify problems.
②	h	Students will be able to think logically based on data, facts, and truth.
③	h	Students will be able to connect and apply new knowledge and acquired knowledge.
④	d	Students will be able to explain their analysis and ideas logically, in an easy-to-understand manner.
⑤	a	Students will be able to show an attitude of trying to objectively evaluate one's ability.
⑥		

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	20	30	20	30	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	15	5	15	0	0	45
	Ability to think, reason and create	0	10	15	5	15	0	0	45
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	10	0	0	0	10
	Attitude and motivation for learning	0	0	0	0	0	0	0	

＊ The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	There will be 3 quizzes. The evaluation methods will consist of multiple-choice quizzes. Scoring: Assign points according to the answer key. Correct answers receive full points, while incorrect or omitted answers receive zero points.
	②	✓	
	③	✓	
	④	✓	
	⑤		
	⑥		
Reports	①	✓	The report will include individual work reports detailing the project's progress and outcomes. The instructors will announce the format of the report. Students must submit the final report at the end of the semester.
	②	✓	
	③	✓	
	④		
	⑤		
	⑥		
Presentations	①	✓	There will be a presentation at the end of the semester. Students will present oral progress reports on their projects. The format of the presentation will be announced by the instructors, such as slides, posters, and/or any other styles.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Works	①		Students must submit a final project that evaluates the skills learned in class.
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	
	②	✓	
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Hands-On Engagement: Complete practical exercises and group projects to apply theoretical concepts in real-world scenarios. **Research and Exploration:** Undertake research activities, data collection, and case studies to deepen understanding of AI applications. **Creative Thinking:** Demonstrate creativity in projects, especially in envisioning the future of AI. **Ethical Consideration:** Participate in ethical debates and discussions, developing a responsible perspective towards AI development and usage.	Fundamental proficiency in critical thinking, problem-solving, and innovative thinking. Strong communication skills and the ability to work collaboratively with empathy and flexibility. Advanced literacy in information, media, and technology, along with effective personal and career development strategies. A deep understanding of cultural diversity and global issues and a commitment to ethical leadership and social responsibility.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1	Class Guidance Lesson 1: Introduction to AI.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
2	Lesson 2: Understanding Intelligence in Machines.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
3	Lesson 3: Basics of Machine Learning.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
4	Lesson 4: Neural Networks and Deep Learning.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
5	Lesson 5: Computer Vision.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class. Quiz from lesson 1-4	30
6	Lesson 6: Data and AI.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
7	Lesson 7: Supervised Learning.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
8	Lesson 8: Unsupervised Learning.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
9	Lesson 9: Natural Language Processing (NLP).	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
10	Lesson 10: AI and Creative Fields	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class. Quiz from lesson 5-9	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11	Lesson 11: AI in Robotics.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
12	Lesson 12: AI Ethics and Responsible AI.	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
13	Lesson 13: AI Policy and Governance	Lecture / Activity / Explanation / Report	The teacher will announce assignments in class.	30
14	Lesson 14: AI Ethic: The Future of AI	Lecture / Activity / Explanation / Report	Quiz from lesson 10-14 Prepare for the presentation and the report	30
15	Lesson 15: Course Review and AI Project Showcase	Lecture / Activity / Explanation / Report	Presentation	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Fundamentals of Computer Science	1	712000	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	EVANS, Davis	Kanazawa C 31.114-1		Friday 16:30-17:30

Course Objectives

	Keywords	Learning Objectives
1	Computer Hardware	**The aim of this course is to teach students the basics of how computers and networked devices operate, and how to properly use such devices and networks. The curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The curriculum covers the fundamentals of PC technology, networking, and security.**
2	Computer Software	
3	Network Communication	
4	Binary Numbers	
5	Information Security	

Course Description and Expectations for Students

At the successful completion of this course, students will be able to:

1. Identify and explain the function of key components of modern computer hardware.
2. Perform basic conversion of decimal numbers to binary and hexadecimal.
3. Explain the fundamentals of computer algorithms, their theoretical operating time, and implement simple examples such as sort and search.
4. Explain the purpose of a programming language, and give examples of simple algorithms implemented in one.
5. Explain the purpose of an operating system and how one is structured.
6. Explain the fundamental structure of computer networks, as well as how data is transmitted on them, including over the internet.
7. Explain and implement the fundamentals of information security including cryptography and security protocols.

This course implements active learning with in-class interactive activities and demonstrations replacing some lectures.

Required Materials (textbooks, reference books, reserved books)
Textbooks: D is for Digital (English Edition), Brian W. Kernighan, ASIN: B0075XZL2M
Reference books: None
Reserved books: None

Knowledge/Skills Needed to Take This Course (Prerequisites)

No.	Program Objectives	Target Abilities for Students
①	e	Students will be able to identify the key components of a modern computer, and explain the function of each
②	e	Students will be able to install and maintain operating systems.
③	e	Students will be able to connect and configure devices.
④	e	Students will be able to write basic algorithms and scripts.
⑤	e	Students will be able to perform basic network configuration.
⑥	e	Students will be able to explain and implement the fundamentals of computer and network security

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		40	0	0	0	30	0	30	100
Comprehensive Strength Criteria	Ability to capture knowledge	25	0	0	0	0	0	20	45
	Ability to think, reason and create	10	0	0	0	20	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	5	0	0	0	0	0	5	10
	Attitude and motivation for learning	0	0	0	0	10	0	5	15

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
Exams	①	✓	There will be a final cumulative exam to test student's knowledge of the material.
	②	✓	
	③		
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	Exercises will be provided in class to provide practice and promote understanding of the content provided in the textbook and lecture portions.
	②		
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①	✓	Skills-based Assessment Assessments are conducted at the end of each part to measure student understanding. The specifics of the assessment will be made clear during the class.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Understand how computer hardware and software work, the fundamentals of algorithms, and how to implement basic information security on a single computer and over a network.	Be able to explain how computer hardware works and write simple programs, as well as explain the difference between an encrypted connection and an unencrypted connection.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content	Method	Assignments (Preview and Review)	Time (Minutes)
1 /	Part 1: Hardware What's in a computer	Lecture/Activity	Read textbook and assignment	20
2 /	Part 1:Hardware Bits,Bytes,and Representation of Information	Lecture/ Activity	Read textbook and assignment	20
3 /	Part 1:Hardware Inside the CPU Assessment	Lecture/ Activity	Read textbook and assignment	20
4 /	Part 2:Software Algorithms	Lecture/ Activity	Read textbook and assignment	20
5 /	Part 2:Software Programming and Programming Languages	Lecture/ Activity	Read textbook and assignment	20
6 /	Part 2:Software Software System	Lecture/ Activity	Read textbook and assignment Download and install VS Code	20
7 /	Part 2:Software Introduction to Programming VS Code Installation and Example Code	Lecture/ Activity	Read textbook and assignment	20
8 /	Part 2:Software Introduction to Programming Implementing Loops and Conditionals Assessment	Lecture/ Activity	Read textbook and assignment	20
9 /	Part 3:Communications Networking	Lecture/ Activity	Read textbook and assignment	20
10 /	Part 3:Communications The Internet Structure of the Internet	Lecture/ Activity	Read textbook and assignment	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content	Method	Assignments (Preview and Review)	Time (Minutes)
11	Part 3:Communications The Internet Protocols, Bandwidth, & Compression	Lecture/ Activity	Read textbook and assignment	20
12 /	Part 3:Communications The World Wide Web HTML, Webpages, & Their Contents	Lecture/ Activity	Read textbook and assignment	20
13 /	Part 3:Communications The World Wide Web Web security, Viruses, & Cryptography	Lecture/ Activity	Read textbook and assignment	20
14 /	Part 3:Communications Data, Information, and Privacy Assessment	Lecture/ Activity	Read textbook and assignment	20
15 /	Cumulative Review	Self-Study	Prepare for Exam	20

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Fundamentals of Data Science	1	712100	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	ITO, Meguru	Hakusanorku C 101.201		

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Data aggregation	Utilization of data is indispensable for realizing the smart society Society 5.0, and it will be indispensable in the future to acquire a background in data science. In this lecture, you will learn the two most basic methods of data analysis, which occupy a very large part of data science, 1) various methods of data aggregation, 2) normal distribution, 3) linear regression analysis through lectures and exercises.
2	Normal distribution	
3	Correlation	
4	Linear regression	
5	MS Excel	

Course Description and Expectations for Students (10.5pt)

In this course, you will learn the introductory contents of data analysis, which is important aspect of data science, through lectures and exercises. In addition to class lectures, the course also includes hands-on analysis exercises.
The explanations of the mathematical background are kept to a minimum in order to understand the methods and practical exercises are carried out to analyze specific operation and tools.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks:
Reference books: 完全独習統計学入門（ダイヤモンド社）ISBN 978-4478820094
Excel による優しい統計解析（オーム社）ISBN 978-4-274-22612-0
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Basic operation and data literacy of Microsoft Excel

No.	Program Objectives	Target Abilities for Students (9pt)
①	h,i	Students will be able to understand cross aggregation.
②	h,i	Students will be able to understand normal distribution.
③	h,i	Students will be able to understand correlaiton.
④	h,i	Students will be able to understand linear regression analysis.
⑤	i	Students will be able to review what you achieved using Portfolio system.
⑥		

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	0	0	80	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	40	0	0	40
	Ability to think, reason and create	0	0	0	0	40	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	10	0	10
	Attitude and motivation for learning	0	0	0	0	0	10	0	10

＊ The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	∠	To check the learned skills in class, students have to submit assignment for each topic. The work will comprise 80% of the overall evaluation. Copying the report of others is not permitted. **Students must submit all assignments. If they do not submit even one of them, the grading of works will be 0.** Late submission of assignments reduces its grading.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥		
Portfolios	①	∠	Portfolio evaluation is based on documentation of evidence of e-syllabus entry that reflects students understanding of their gained learning skills.
	②	∠	
	③	∠	
	④	∠	
	⑤	∠	
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Be able to give specific explanations about the use and utilization of data and its significance from the perspective of one's specialty. It is possible to explain the characteristics of the data set after performing appropriate aggregation and drawing a graph for the given numerical data and category data. Furthermore, regarding the given multivariate data. phase The number of relationships can be obtained, regression analysis can be performed, an optimal regression model can be created, and it can be used for prediction.	Explain the use and utilization of data and its significance. Appropriate aggregation can be performed on given numerical data and category data, and graphs can be drawn. Furthermore, regarding the given multivariate data. The correlation coefficient can be obtained, regression analysis can be performed, and it can be used for prediction.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Guidance Review of fundamental statistics Review of fundamental operation of Excel	Lecture and exercise	Finishing assignments of this class	30
2 /	Aggregation	Lecture and exercise	Finishing assignments of this class	30
3 /	Exercise of aggregation	Exercise	Finishing assignments of this class	30
4 /	Normal distribution	Lecture and exercise	Finishing assignments of this class	30
5 /	Population vs Sample	Lecture and exercise	Finishing assignments of this class	30
6 /	t-distribution	Lecture and exercise	Finishing assignments of this class	30
7 /	Exercise of normal distribution	Exercise	Finishing assignments of this class	30
8 /	Correlation	Lecture and exercise	Finishing assignments of this class	30
9 /	Correlation	Lecture and exercise	Finishing assignments of this class	30
10 /	Simple linear regression	Lecture and exercise	Finishing assignments of this class	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Multiple linear regression	Lecture and exercise	Finishing assignments of this class	30
12 /	Exercise of regression analysis	Exercise	Finishing assignments of this class	30
13 /	k-nearest neighbors	Lecture and exercise	Finishing assignments of this class	30
14 /	Open data project	Project	Finishing assignments of this class	30
15 /	Open data project and Summary	Project	Finishing assignments of this class	30

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Electric foundations I	1	712400	First	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	HUSSIEN, Alaa	Hakusanroku C 101. 201		(Mon.-Tue. Thru.) 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	DC circuits analysis.	Students will be able to analyze DC circuits using Ohm and Kirchhoff's laws, know the bridge circuits and their applications, learn about electromagnetic induction and the principles of DC motors and generators, study about condensers and inductors and their applications, understand the fundamentals of semiconductors devices such as diodes, transistors and the logic gates, learn about experiments for building simple electric circuits.
2	Ohm and Kirchhoff's laws	
3	Wheatstone bridge- Electromagnetism	
4	Condensers-Inductors-AC electricity	
5	Diodes-Transistors-Logic gates	

Course Description and Expectations for Students (10.5pt)

In this course, students will understand the meaning of some basic electrical terms and then learn about some basic laws and formulas such as Ohm and Kirchhoff's laws. They also learn how to use such formulas to gain the skill of analyzing different kinds of DC circuits including bridge circuits and their applications. One of the topics which students will know about is the electromagnetic induction and the principle operation of both electrical generators and motors. Condensers and inductors are useful electrical components and are used in most of the electrical appliances, so students will study their structure, properties, characteristics and their applications. Most of the students are a bit familiar of DC electricity but don't know about AC electricity so students will study an introduction to AC electricity. In the last part of this course, student learn about semiconductor devices such as diodes and transistors and then about logic gates. In some classes, students will watch demonstrations of doing some experiments to prove some formulas. It is advised that students pay full attention during the lecture, ask questions, and submit the assignments on time. The lecture style of this course is conducted through a discussion and Q&A between the teacher and students in order to get them involved in to the class. In addition, students help each other through peer learning during the work sheet solving time. These are two types of the active learning applied in the class.

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks:
Reference books:"Introduction to Electric Circuits" 9th edition by Richard C. Dorf, James A. Svoboda, ISBN:9781118321829
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students should aware of the fundamental math calculations and know how to solve simultaneous equations. They should feel free to ask questions in and outside the class to understand the topics and solve the worksheet problems. In addition to that, students should realize that making mistakes is necessary for learning.

No.	Program Objectives	Target Abilities for Students (9pt)
①	g,h,i	Define and explain the electrical terms and basic principles of DC circuits connections including series parallel connections.
②	d,h,i	Understand Ohm and Kirchhoff's laws and use their formulas to analyze different types of electric circuits.
③	b,g,i	Learn about the electromagnetic induction and the principle operation of electric generators and motors.
④	a,b,h	Discover more electrical components such as condensers and inductors and their applications in daily life.
⑤	d,h,i	Know about semiconductors devices such as diodes and transistors and logic gates.
⑥	a,d,h,	Learn how to make electric circuits using different components to do some experiments for measuring some quantities.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		30	50	20	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	20	5	0	0	0	0	35
	Ability to think, reason and create	10	20	5	0	0	0	0	35
	Collaboration and leadership	0	0	5	0	0	0	0	5
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	10	10	5	0	0	0	0	25

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①	✓	There will be one exam, the final exam which will cover material for latter half of this semester. It is worth 30% of your final grade. It is important to study all your notes, worksheets and quizzes before the test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be one quiz each class which will cover materials from the previous lesson. The average of all your quizzes will be your final score which is worth 20% of your final grade. And there will be one mid-term test which will cover material for the former half of this semester. It is worth 30% of your grade, so 50% of your final grade will be obtained through these quizzes and mid-term test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Every class the students are given a worksheet contains questions and problems to be solved at the class and complete it by the end learning session of the same day. The grading criteria will be based on whether or not you checked your answer and completed it. The homework equates 20% of the total score.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students are able to do the following: 1-Use Ohm and Kirchhoff's laws to analyze DC electric circuits including bridge circuits. 2-understand the electromagnetic induction and how it is used for the operation of generators and motors. 3-Discover the structure and properties condensers and inductors and their applications in daily life 4-Understand the AC electricity compared to DC electricity. 5-learn about the semiconductor devices such as diodes, transistors and logic gates.	Students are able to do the following: 1-Use Ohm and Kirchhoff's law to solve simple circuits. 2-Understand the electromagnetic induction and the difference between the generators and motors. 3-Know about the functions of condensers and inductors. 4-Define the AC electricity compared to DC electricity. 5-Learn about the use of diodes, transistors, and logic gates.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Course guidance Electrical quantities and Ohm's law	Lecture Worksheet#1 Activity#1	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#2	30
2 /	DC circuit analysis I	Quiz#1 Worksheet#2 Activity#2	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#3	30
3 /	DC circuit analysis II	Quiz#2 Worksheet#3 Activity#3	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#4	30
4 /	Kirchhoff's laws	Quiz#3 Worksheet#4 Activity#4	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#5	30
5 /	Bridge circuits and applications	Quiz#4 Worksheet#5 Activity#5	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#6	30
6 /	Electromagnetic induction and applications	Quiz#5 Worksheet#6 Activity#6	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#7	30
7 /	Condensers and applications	Quiz#6 Worksheet#7 Activity#7	Review: Finish worksheet/HW. Preparation: Review all worksheets and quizzes	90
8 /	Mid-term exam	Quick review Have the exam	Preparation: read the notes of lecture#9	15
9 /	Inductors and applications	Return the mid-term exam results Worksheet#9	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#10	30
10 /	Introduction to AC electricity	Quiz#7 Worksheet#10 Activity#8	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#11	30

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Semiconductor diodes I	Quiz#8 Worksheet#11	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#12	30
12 /	Semiconductor diodes II	Quiz#9 Worksheet#12 Activity#8	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#13	30
13 /	Transistors	Quiz#10 Worksheet#13	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#14	30
14 /	Logic gates I	Quiz#11 Worksheet#14	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: read the notes of lecture#15	30
15 /	Logic gates II	Quiz#12 Worksheet#15	Review: Finish worksheet/HW. Prepare for the quiz. Preparation: Review all lecture notes of last 7 classes	60
16 /	Final Exam	Exam on the contents of class #8 to class #15	Study all materials of the second half of the semester	120
17 /	Final Exam Return. Self-check.	Return the exams results.		

2025 Syllabus

Instructor with "＊"means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Fundamentals of Robotics	2	712500	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	HAYASHI Michihiro, HAN Justin	31-126-1		Class day: 16:30-17:30

Course Objectives

Keywords (10.5pt)		Learning Objectives (10.5pt)
1	Mechanism	Students will: (1) learn the basics of robotics. (2) learn how to design mechanical parts. (3) learn how to control a 2-wheel mobile robotic to accomplish line tracing.
2	Sensor	
3	Actuator	
4	Control	
5	Programming	

Course Description and Expectations for Students (10.5pt)

This course will offer problem-solving learning and experimental learning in class as a type of active learning.
This course deals with the fundamentals of robotics. It aims to teach the operations of sensors, actuators, and computer programs through exercises in controlling line tracing robots.

(1) Outline of robotics and mechatronics
(2) Sensors (IR sensor, Ultrasonic sensor, Image sensor)
(3) Actuators (DC motor, Stepper motor, Servo motor)
(4) Computer program (Jupiter notebook, Python)

Required Materials (textbooks, reference books, reserved books) (10.5pt)
Textbooks:
Reference books:
Reserved books:

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

	Program Objectives	Target Abilities for Students (9pt)
①	d,g,h	Be able to design parts according to required specification.
②	g,h	Be able to make 3D models by using 3D CAD software.
③	g,h	Be able to manufacture parts by using a 3D printer or laser cutting machine.
④	g,h	Be able to understand algorithms for line tracing robots.
⑤	d,h	Be able to make computer programs by using the Python programming language.
⑥	d,h,i	Be able to check the operation of line tracing robots.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	30	20	50	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	20	0	20	0	0	40
	Ability to think, reason and create	0	0	10	10	20	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	10	0	0	0	10
	Attitude and motivation for learning	0	0	0	0	10	0	0	10

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	レ	Students will be evaluated based on their reports such as required specification sheets, mechanical drawings, procedure manuals for manufacturing parts and algorithms for their line tracing robots.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥	レ	
Presentations	①		Students will be evaluated on their final presentation which deals with their line tracing robots.
	②		
	③		
	④	レ	
	⑤	レ	
	⑥	レ	
Works	①	レ	Students will be evaluated by their works such as 3D models made in CAD, manufactured parts, and computer programs.
	②	レ	
	③	レ	
	④	レ	
	⑤	レ	
	⑥	レ	
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
(1) Able to design parts and make 3D models based on required specifications. (2) Able to fully understand the functions and operations of various sensors. (3) Able to fully understand the functions of various actuators. (4) Able to make a computer program for line tracing robots correctly. (5) Able to check and explain the operation of line tracing robots.	(1) Able to make 3D models based on actual parts. (2) Able to understand the functions and operations of various sensors. (3) Able to understand the basic functions of various actuators. (4) Able to make a computer program for line tracing robots by referring to various sample programs. (5) Able to check the operation of line tracing robots.

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Course introduction Basics of mechatronics and robotics Composition of robot: Mechanism, frame, actuators, electronic circuit, computer program	Lecture and Q&A Self-check	Understand the course objectives Confirm the course schedule	20
2 /	Representation of mechanical parts 3D model and 2D drawings Conversion between 3D model and 2D drawings Projection methods	Lecture and Q&A Self-check	CAD practice	20
3 /	Making 3D models	Lecture and Q&A Self-check	CAD practice	20
4 /	Design mechanical parts (part 1) Requirement of parts Consideration of dimensions of parts DFMA	Lecture and Q&A Self-check	Specification sheets	20
5 /	Design mechanical parts (part 2) 3D Parts modeling with CAD	Lecture and Q&A Self-check	Parts modeling	20
6 /	Manufacturing and evaluation Manufacturing parts with a 3D printer and laser cutter Measurement, inspection, and evaluation of parts	Lecture and Q&A Self-check	Check parts	20
7 /	Basics of robot programming Roles of programs Reading the status of sensors Driving the actuators Installation of programming environment	Lecture and Q&A Self-check	Check programming environment	20
8 /	Programming (part 1) Introduction of computer languages Role of algorithms	Lecture and Q&A Self-check	Check programming environment	20
9 /	Programming (part 2) Loops Conditional branches	Lecture and Q&A Self-check	Programming practice	20
10 /	Programming (part 3) Transferring the program to robot Checking the program	Lecture and Q&A Self-check	Programming practice	20

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Project (part 1)	Lecture and Q&A Self-check	Proceed with project	20
12 /	Project (part 2)	Lecture and Q&A Self-check	Proceed with project	20
13 /	Project (part 3)	Lecture and practice Self-check	Proceed with project	20
14 /	Project (part 4)	Lecture and practice Self-check	Prepare for final presentation	20
15 /	Final presentation Checking robot operation	Lecture and practice Self-check	Check robot operation	20

2025 Syllabus

Instructor with "*" means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style
Dept. S Specialized Required	Fundamentals of Business Management	1	712700	Second	Lecture Class

Target Grade	Instructor	Office	E-mail Address	Office Hours
2	* MEBUSAYA, Rattiya MEBUSAYA, Tossa	Hakusanroku C 101.201		Make an appointment in class

Course Objectives

	Keywords (10.5pt)	Learning Objectives (10.5pt)
1	Entrepreneurship	In this course, students will try to find a framework when we think about entrepreneurship and explain the innovation and entrepreneurship as a focused and systematic discipline. The goal of this course is to capture the ideas that existing businesses and new ventures need to know and do to succeed in today's economy.
2	Innovation	
3	Value Creation	
4	Startups	
5	Business Strategy	

Course Description and Expectations for Students (10.5pt)

This course introduces students to the fundamental concepts and skills necessary for entrepreneurship through **investigative learning, experiential learning, project-based learning, and group discussion** as a type of active learning.
Students aspiring to become global innovators and entrepreneurs must develop the ability to **identify the essence of problems, propose effective solutions, and implement them successfully**. To achieve this, the course emphasizes:

- **Self-awareness and Strength Recognition** – Understanding and utilizing personal strengths in problem-solving.
- **Logical Thinking and Argumentation** – Developing structured reasoning and critical thinking skills.
- **Effective Communication** – Expressing and defending solutions confidently in discussions and presentations.
- **Experiential and Project-Based Learning** – Engaging in hands-on activities, real-world problem-solving, and team-based projects to apply entrepreneurial concepts in practice.

Relationship between this course and business experiences
Leveraging the instructor's experience in **startups and management across various industries**, the course provides **real-world case studies, discussion materials, and insights into key factors for entrepreneurial success**. Through experiential and project-based learning, students will work on real or simulated business challenges, develop entrepreneurial solutions, and gain practical experience essential for future innovation and business endeavors.

Required Materials (textbooks, reference books, reserved books) (10.5pt)

Textbooks: None
Reference books: None
Reserved books: None

Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)

Students need to have an interest in business development,
and have a certain basic knowledge of marketing and business system.

No.	Program Objectives	Target Abilities for Students (9pt)
①	a,i,g	Students are able to explain the role of an entrepreneur and the role of the innovation in entrepreneurs and business world
②	a,i,g	Students understand the reasons behind the successful business/entrepreneur stories
③	c,g	Students understand the challenges and risks involved in starting a new business
④	c,g	Students know and understand about the Startups and various type of entrepreneurship
⑤	d, e, f	Students will be able to provide effective feedback as well as accept criticism from others
⑥	f, g	Students will apply their knowledge of innovation-driven entrepreneurship to pitch their business ideas at the idea stage.

Evaluation Criteria

Criteria and Ratio \ Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	0	60	30	10	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	25	10	0	0	0	35
	Ability to think, reason and create	0	0	25	10	0	0	0	35
	Collaboration and leadership	0	0	10	5	5	0	0	20
	Announcement / Expression / Communication	0	0	0	5	0	0	0	5
	Attitude and motivation for learning	0	0	0	0	5	0	0	5

* The numerical breakdown shown by Comprehensive Strength Criteria is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points (10.5pt)
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	✔	Individual research and create reports of topics you learned in class and/or your impressions on the lectures by real entrepreneurs from various industries. Reports will also include individual activity worksheet. The format of the report will be announced by the instructors.
	②	✔	
	③	✔	
	④	✔	
	⑤		
	⑥		
Presentations	①	✔	Share the results of your own research, both individual and group project, and/or evaluation on entrepreneurship and startup stories. Students will also give oral presentation about their projects. The format of the presentations will be announced by instructors, Teachers will grade on presentation contents and presentation Etiquette, Rubric will be provided as a group and individual.
	②	✔	
	③	✔	
	④	✔	
	⑤		
	⑥		
Works	①	✔	Group discussion on external lectures. This also include group activity worksheet and presentation materials. The format of the works will be announced by the instructors.
	②	✔	
	③	✔	
	④	✔	
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
- Students are able to play the role of an entrepreneur. - Students understand the success stories and the reasons behind for their success. - Students understand the challenges and risks of starting a new business and know how to deal with them. - Students are able to understand the role of innovation and its impact in the entrepreneur and business world.	- Students are able to explain the role of an entrepreneur. - Students are able to explained and learned lessons and the reason behind success stories. - Students are aware and understand the challenges and risks involved in starting a new business. - Students understand and be able to implement the innovation role into their idea project.

Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Class Guidance Introduction to Innovation Nature of change and impact	Lecture Q&A Discussion	Review the handouts. Research & Report #1	50
2 /	Innovation, Invention, and Entrepreneur Innovation type and cycle, Innovation Driven Entrepreneur Success stories	Lecture Q&A Discussion	Review the handouts.	50
3 /	Business Model Canvas vs Lean Model Canvas Problem and validation	Lecture Q&A Discussion	Review the handouts. Research & Report #2	50
4 /	Data analytic – methods and tools Stakeholders, Users, Customers Stakeholders – Problem validation	Lecture Q&A Discussion	Review the handouts. Research & Report #3	50
5 /	Value proposition, canvas Problem-solution fit	Lecture Q&A Discussion	Review the handouts. Research & Report #4	50
6 /	Solution design – Problem solving model. Problem-solution fit, Customer-solution fit User/Customer centric design	Lecture Q&A Discussion	Review the handouts. Research & Group Report #1	50
7 /	MVP and Prototyping UX/UI Stakeholders – solution validation	Lecture Q&A Discussion	Review the handouts. Research & Group Report #2	50
8 /	Feedback analysis - Validation Market, Competitors, Unfair-Advantages SWOT and Brand positioning	Lecture Q&A Discussion	Review the handouts. Research & Group Report #3	50
9 /	Expense and Income Revenue model Timeline	Lecture Q&A Discussion	Review the handouts. Research & Group Report #4	50
10 /	IP - Copyright, Trademark, Logo, and Patent	Lecture Q&A Discussion	Review the handouts.	50

Course Schedule

* In the "Time" column of the Assignments, the standard time required for the specified assignment is provided. For total-time credit courses, please take the time corresponding to each class for review and preview. (For example, in the case of a 2-credit course, please try to take 200 minutes per week.) Please follow the teacher's guidance for details.

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Investor and Funding options Equity and Stage	Lecture Q&A Discussion	Review the handouts. Research & Group Report #5	50
12 /	Doing Business in AI era Finalizing project	Lecture Q&A Discussion	Review the handouts.	50
13 /	Pitching – Pitching script and Pitch deck Finalizing project	Lecture Q&A Discussion	Review the handouts. Research & Pitching script	50
14 /	Finalizing project Optional: Guest speakers	Lecture Q&A Discussion	Research & Report Research & Pitching script and Pitch deck	50
15 /	Final Pitching Presentation	Presentation		