

令和3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 必修		国語表現IA	1	500100	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			
1年	渦辺 豊	白山麓C: 101.201				月曜 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	話す	実社会に必要な国語の知識や技能を身につけることができるようになるために、現代仮名遣いや送り仮名、語句の使い方や語の係り受けなど国語表現の基礎を身につける。心情の機微を表現できるようにするために、レトリックに習熟し文章表現力を高め、語感を磨き語彙を豊かにする。論理的に考える力を伸ばし思考力を高めることができるようになるために、小論文の「型」を習得し、論理的な文章を書く基礎力を養う。他者との関わりの中で伝え合う力を高めることができるようになるために、音読やスピーチなど音声言語による表現方法の基礎を身につける。							
2	聞く								
3	書く								
4	表現力								
5	思考力								
授業の概要および学習上の助言									
本科目の授業概要は以下の通りである。 テーマ：生涯にわたる社会生活に必要な国語の知識や技能を身につけ、深く共感したり豊かに想像したりする力を伸ばすとともに、論理的に考える力を養い、他者との関わりの中で伝え合う力を高める。 1. 現代仮名遣いや送り仮名の正しい知識を身につける。 2. 語句の使い方や文の区切り方を正しく理解する。 3. 「型」としての三段構成を理解して、論旨が明解な小論文を書く力を身につける。 4. 異論や反論を想定した、防衛力と説得力のある小論文を書く力を身につける。 5. 発声、発音に留意しながら文の構造を把握し、その意味が正確に伝わる音読、スピーチができる力を身につける。									
【教科書および参考書・リザーブドブック】									
教科書：国語表現 改訂版（教育出版） [三訂版]国語の常識plus（明治書院） 参考書：文章の書き方（KIT-LC・WC）文章表現ハンドブック（KIT-LC・WC） リザーブドブック：「新しい国語表記ハンドブック 第八版」（三省堂）									
履修に必要な予備知識や技能									
日本語検定4級（中学校卒業）程度の国語能力。									
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	仮名遣い、送り仮名について、適切な使い方をすることができる。							
③	e, f	言葉の意味を正しく理解し、文法に従って語と語を接続させることができる。							
④	e, f	「型」としての三段構成を理解して、論旨が明解な小論文を書くことができる。							
⑤	e, f	異論、反論を想定した防衛力と説得力のある小論文を書くことができる。							
⑥	e, f	自分の思いや考えを伝え、また、それを共感的に受けとめて考えを広げたり深めたりすることができる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	60	20	20	0	0	0	100
総合力指標	知識を取り込む力	0	50	0	0	0	0	0	50
	思考・推論・創造する力	0	0	20	0	0	0	0	20
	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	20	0	0	0	20
	学習に取り組む姿勢・意欲	0	10	0	0	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	レ
	②	レ
	③	レ
	④	
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	レ
	⑤	レ
	⑥	
成果発表 (口頭・実技)	①	
	②	
	③	
	④	
	⑤	
	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
<p>小テスト：日本語の表記、文法に関して、日本語検定3級程度以上の能力が身についている。</p> <p>レポート：論文として適切な日本語で、三段構成の「型」に則り、深い洞察力に基づいて反論を想定した小論文を書くことができる。</p> <p>成果報告：プレゼンソフトを使って聞き手をひきつける自己紹介ができる。 推薦図書の魅力的な紹介文を書き、聞き手をひきつける発表ができる。 推薦図書の一部の聞き手をひきつける朗読ができる。</p>	<p>小テスト：日本語の表記、文法に関して日本語検定4級程度以上の能力が身についている。</p> <p>レポート：論文として概ね適切な日本語で、三段構成の「型」に則り、反論を想定した小論文を書くことができる。</p> <p>成果報告：プレゼンソフトを使って自己紹介ができる。 推薦図書の紹介文を書き、発表できる。 推薦図書の一部の正確な朗読ができる。</p>

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、Good Work!」：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ください。

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 プレゼンソフトを利用して自己紹介の準備をする。	ガイダンス 教員の自己紹介を参考に各自作成する。 評価規準の提示	プレゼンの練習をする。(復習)	30
2 /	「自己紹介」 「文章表現の基礎1」 表記の仕方について理解する。	言葉クイズ プレゼン発表 評価シート記入 演習シート「表記の仕方」	言葉クイズに備える。(予習)	30
3 /	「文章表現の基礎2」 語句の用法と文の区切り方について理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート「語句の用法」 ビデオ 「語句の用法と文の区切り方」	言葉クイズに備える。(予習) ※連休中に第15回の授業で発表する推薦図書を決め、本を入手して読み返しておく。(予習)	30
4 /	「文章表現の基礎3」 文章のリフォームについて理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート 「文章のリフォーム」 ビデオ「文章のリフォーム」	言葉クイズに備える。(予習)	30
5 /	「文章表現の基礎4」 わかりやすい説明の方法について理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート 「わかりやすい説明の方法」 ビデオ 「わかりやすい説明の方法」	言葉クイズに備える。(予習)	30
6 /	「文章表現の基礎ズームアップ1」 レトリックの工夫について理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート 「ズームアップ1の1」 「ズームアップ1の2」 講義「村上春樹の比喻表現」	言葉クイズに備える。(予習)	30
7 /	「文章表現の基礎5」 文法についての問題演習に取り組む。	前回の言葉クイズ返却 言葉クイズ 問題演習 「日本語検定3級過去問題」 講義「ら抜き言葉について」	言葉クイズに備える。(予習)	30
8 /	小テスト「文章表現の基礎」 前時までの学習内容の定着度を確認する。	前回の言葉クイズ返却 講義「小テスト対策」 小テスト	小テストに備える。(予習)	30
9 /	「小論文I」 意見を論理的に述べる方法について理解する。	小テスト返却 言葉クイズ 演習シート 「意見を論理的に述べる」	言葉クイズに備える。(予習)	30
10 /	「小論文I」 セルフ・ディベートについて理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート 「セルフ・ディベート」 ビデオ「セルフ・ディベート」	言葉クイズに備える。(予習)	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)
11 /	「小論文Ⅰ」 三段構成について理解する。	前回の言葉クイズ返却 言葉クイズ 演習シート「構成ノート」	言葉クイズに備える。(予習) 次時に執筆する小論文の構成を考 える。(予習)	30
12 /	「小論文Ⅰ」 三段構成で、反論を想定した小論文を書く。	前回の言葉クイズ返却 小論文記述	小論文の構想を練る。(予習)	30
13 /	「小論文Ⅰ」 前時に執筆した小論文を相互評価する。 「声の表現」 言葉の正確な発音やアクセントについて理解する。	言葉クイズ 評価シート記入 ビデオ「声を出そう・ 声を文字に変える」	言葉クイズに備える。(予習)	30
14 /	「声の表現」 推薦図書についてのスピーチ原稿を作成する。	前回の言葉クイズ返却 スピーチ原稿作成	スピーチ・朗読練習をする。 (復習)	30
15 /	「声の表現」 推薦図書についてスピーチする。 推薦図書の一部を朗読する。	スピーチ 朗読 評価シート記入	発表して気づいた改善点を修正 する。(復習)	30

令和3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 必修	国語表現 I B	1	500200	後学期	講義／履修
対象学年	担当教員名	居室	電子メール I D		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	話す	人間関係を維持、構築する上で重要な挨拶、敬語についての知識を身につけ、それを実生活でも実践する態度を養う。社会生活に必要なコミュニケーション能力を高めるために、電子メールのマナーや電話応対、手紙の形式の基礎を習得する。励ましの言葉や受け入れる言葉など人間関係を構築していく言葉の力や、「聴く」という行為の働きを理解し、日常の言語活動に役立てる姿勢を身につける。さらに、言語活動への関心を高め、言葉のセンスを磨くために、アクロスティックなどの言葉遊びや川柳・俳句の創作に取り組む。
2	聞く	
3	書く	
4	伝え合う	
5	表現力	

授業の概要および学習上の助言

■授業概要
 本科目は、国語表現IAの続きを行う。
 具体的な範囲は下記の通り（『国語表現 改訂版』教育出版 PP.51-100）。
 人とつながる言葉
 言葉を届ける
 面接—社会との接点
 言葉遊びと創作

■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。
 ・実社会で必要とされる敬語表現に習熟すること。

【教科書および参考書・リザーブドブック】

教科書：「国語表現 改定版」教育出版
 参考書：『国語の常識plus』明治書院
 リザーブドブック：

履修に必要な予備知識や技能

- ・「国語表現IA」「文学 I」などを履修し、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	挨拶が人間関係に大きな意味を持つことを理解し、目的や場に応じて適切な挨拶ができる。
②	e,f	人間関係を構築していく上での敬語の重要性を理解し、場や相手に応じて適切に敬語を使うことができる。
③	e,f	電子メール、手紙の基本作法を理解し、適切に使用できる。
④	e,f	人間関係に作用する言葉の力を正しく理解し、適切に使う姿勢を身につける。
⑤	e,f	意見文の目的、構成を理解し、説得力のある意見文を書くことができる。
⑥	e,f	アクロスティックなどの言葉遊びや、川柳・俳句という伝統的文芸の基本を理解し、工夫して創作できる。

達成度評価

評価方法		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
指標と評価割合									
総合評価割合		0	40	30	30	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	20	0	0	0	0	20
	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	10	10	20	0	0	0	40
	学習に取り組む姿勢・意欲	0	0	0	10	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	
	②	レ
	③	
	④	レ
	⑤	
	⑥	
レポート	①	
	②	レ
	③	レ
	④	レ
	⑤	レ
	⑥	レ
成果発表 (口頭・実技)	①	レ
	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	
	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
<p>目的や場に応じて常に適切な挨拶ができる。</p> <p>場や相手に応じて常に適切に敬語を使うことができる。</p> <p>電子メールや手紙の基本作法を理解し、常に適切に書くことができる。</p> <p>意見文の目的、構成を理解し、説得力のある意見文を書くことができる。</p> <p>言葉遊びや川柳・俳句等伝統的文芸の基本を理解し、工夫して創作できる。</p>	<p>目的や場に応じて適切な挨拶を心がけている。</p> <p>場や相手に応じて適切に敬語を使うことを心がけている。</p> <p>電子メールや手紙の基本作法を理解し、適切に書くことができる。</p> <p>意見文の目的、構成を理解し、意見文を書くことができる。</p> <p>言葉遊びや川柳・俳句等伝統的文芸の基本を理解し、創作できる。</p>

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、Good Work!」：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ください。

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 /	<p>■科目ガイダンス</p> <ul style="list-style-type: none"> ・科目の目的、内容、評価方法について理解する。 <p>人とつながる言葉：挨拶と人間関係</p> <ul style="list-style-type: none"> ・挨拶が人間関係や社会生活にどのような影響を及ぼしているかを理解し、自らの言語生活を検証する。 	<p>科目ガイダンス 講義と質疑 プリント配布</p>	<p>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。</p>	30
2 /	<p>人とつながる言葉：待遇表現—敬語によるコミュニケーション</p> <ul style="list-style-type: none"> ・尊敬語を理解し、適切に使えるようにする。 	<p>小テスト①（漢字） 実技①（挨拶） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：尊敬語について調べる。 復習：教科書・ノートを見直す。</p>	30
3 /	<p>人とつながる言葉：待遇表現—敬語によるコミュニケーション</p> <ul style="list-style-type: none"> ・謙譲語を理解し、適切に使えるようにする。 	<p>小テスト②（漢字） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：謙譲語について調べる。 復習：教科書・ノートを見直す。</p>	30
4 /	<p>人とつながる言葉：待遇表現—敬語によるコミュニケーション</p> <ul style="list-style-type: none"> ・誤った敬語表現を正しい敬語表現に改める。 	<p>小テスト③（敬語） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：誤りやすい敬語表現について調べる。 復習：教科書・ノートを見直す。</p>	30
5 /	<p>人とつながる言葉：励ます言葉・受け入れる言葉</p> <ul style="list-style-type: none"> ・言葉の可能性と危険性についてさまざまな角度から理解する。 ・「聴く」ことのはたらきについて学ぶ。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>予習：傾聴について調べる。 復習：教科書・ノートを見直す。</p>	30
6 /	<p>言葉を届ける：電子メール</p> <ul style="list-style-type: none"> ・電子メールの特徴やマナーを理解し、適切な形式と内容で電子メール文書を作成する。 	<p>実技②（電子メール） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：電子メールの書式について調べる。 復習：レポート③（電子メール）を仕上げる。</p>	30
7 /	<p>言葉を届ける：手紙</p> <ul style="list-style-type: none"> ・手紙や連絡文の形式を学び、場面に応じた言葉の意味について理解を深める。 	<p>小テスト④（漢字） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：手紙・連絡文の書式について調べる。 復習：教科書・ノートを見直す。</p>	30
8 /	<p>言葉を届ける：意見文</p> <ul style="list-style-type: none"> ・生活の現状や経験したことを挙げ、それがなぜ問題となるかを具体的に書く。 ・理想を示し、解決策・主張を明確に述べる。 	<p>レポート②（意見文） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：意見文の目的や構成について調べる。 復習：意見文を仕上げる。</p>	30
9 /	<p>言葉を届ける：意見文</p> <ul style="list-style-type: none"> ・意見文を発表する。 ・相互評価する。 	<p>プリント配布 グループワーク</p>	<p>予習：意見発表の練習をする。 復習：相互評価を見直す。</p>	30
10 /	<p>面接—社会との接点：自分を知る</p> <ul style="list-style-type: none"> ・自己分析を通して自分を理解し、面接準備シートを作成する。 	<p>小テスト⑤（漢字） 講義と質疑 プリント配布 グループワーク</p>	<p>予習：自己分析について調べる。 復習：教科書・ノートを見直す。</p>	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、Good Work!」：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ください。

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 /	面接—社会との接点：相手を知る ・志望先の情報を集め、履歴書を作成する。	レポート②提出（面接準備シート） 講義と質疑 プリント配布 グループワーク	予習：面接準備シートを見直す。 復習：履歴書を見直す。	30
12 /	面接：社会との接点：模擬面接をする ・伝わる話し方について理解し、面接における心構えと技術を習得する。 ・模擬面接を通して、面接の基本事項を学び、実践力を身につける。	実技③（模擬面接） プリント配布 グループワーク	予習：模擬面接の練習をする。 復習：教科書・ノートを見直す。	30
13 /	言葉遊びと創作：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。	オンライン 講義と質疑 プリント配布 グループワーク	予習：アクロスティック・アナグラムについて調べる。 復習：教科書・ノートを見直す。	30
14 /	言葉遊びと創作：俳句を作る ・俳句という伝統的な文芸ジャンルについて理解を深め、言葉のセンスを磨く。	講義と質疑 プリント配布 グループワーク	予習：俳句について調べる。 復習：作品を仕上げる。	30
15 /	言葉遊びと創作：俳句を作る ・篆刻について理解する。 ・短冊を作成し、相互評価する。	レポート③（創作）提出 プリント配布 グループワーク アンケート実施	予習：作品を見直す。 復習：相互評価を見直す。	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Expression I A		1	500500	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TAYLOR, James		Hakusanroku C:101.201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Writing			Students will learn English grammar in order to be able to write advanced English sentences and paragraphs of various genres. With writing theses in English in the future in mind, students will obtain communication skills to be able to describe their ideas logically in correct English.					
2	Paragraphs								
3	Grammar								
4	Genres								
5	Journal								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to speak and write in English. Missing deadlines will disrupt your progress and prevent you from achieving a high grade, so complete tasks when they are assigned and submit them on time. Peer review and feedback are important parts of the writing process, so use the opportunity to communicate with your classmates. Respect others' ideas and opinions. It is crucial to ask your classmates or the teacher for help when necessary.									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	0	100	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	25	0	0	0	0	25
	Ability to think, reason and create	0	0	25	0	0	0	0	25
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	30	0	0	0	0	30
	Attitude and motivation for learning	0	0	10	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	<p>Students will write 8 different genres of paragraph, which will be graded according to the following criteria: Process, Task Achievement, Cohesion, Coherence.</p> <p>Grammar exercise worksheets will be graded, with 1 point per correct answer.</p> <p>Students will write a journal of at least 250 words on an assigned topic for homework after each lesson. Students will receive credit for journals of sufficient length submitted on time.</p> <p>Feedback will be given verbally and in writing at the start of the following lesson.</p>
	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 improve their grammar 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 improve their grammar 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.

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. Grammar 1: Students will complete exercises on sentence fragments, sentence structure, and the simple present tense.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
2 /	Grammar 2: Students will complete exercises on there is/there are and articles. Writing: Students will consider the features of an effective topic sentence.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
3 /	Grammar 3: Students will complete exercises on the present continuous tense and prepositions of place and time. Writing: students will write topic sentences.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
4 /	Grammar 4: Students will complete exercises on the simple past tense. Writing: students will consider the features of effective supporting sentences.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
5 /	Grammar 5: Students will complete exercises on countable and uncountable nouns. Writing: Students will write supporting sentences.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
6 /	Grammar 6: Students will complete exercises on the simple future tense. Writing: Students will consider the features of concluding sentences, and practice different techniques for planning, brainstorming, editing, and revising.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
7 /	Opinion Paragraph: Students will consider the features and structures of effective opinion paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
8 /	Cause & Effect Paragraph: Students will consider the features and structures of effective cause and effect paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
9 /	Process Paragraph: Students will consider the features and structures of effective process paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
10 /	Comparison Paragraph: Students will consider the features and structures of effective comparison paragraphs, then write their own.	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 /	Problem-Solution Paragraph: Students will consider the features and structures of effective problem-solution paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
12 /	Descriptive Paragraph: Students will consider the features and structures of effective descriptive paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
13 /	Persuasive Paragraph: Students will consider the features and structures of effective persuasive paragraphs, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
14 /	Narrative Paragraph: Students will consider the features and structures of effective narrative paragraphs, then write their own.	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.	Journal.	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Expression I B		1	500600	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TAYLOR, James		Hakusanroku C:101.201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Writing		Students will consider what they learnt in English Expression I A and will expand on their knowledge by writing essays of various genres. Students will obtain skills to be able to describe their ideas logically in correct English and acquire the skills to be able to plan, configure, write, and rewrite essays. Students will be able to evaluate their writing through conducting peer review activities.						
2	Essays								
3	Genres								
4	Journal								
5	Peer review								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to speak and write in English. Missing deadlines will disrupt your progress and prevent you from achieving a high grade, so complete tasks when they are assigned and submit them on time. Peer review and feedback are important parts of the writing process, so use the opportunity to communicate with your classmates. Respect others' ideas and opinions. It is crucial to ask your classmates or the teacher for help when necessary.									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	100	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	25	0	0	0	0	25
	Ability to think, reason and create	0	0	25	0	0	0	0	25
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	30	0	0	0	0	30
	Attitude and motivation for learning	0	0	10	0	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		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	Students will write 3 different types of paragraph and 2 essays, which will be graded according to the following criteria: Process, Task Achievement, Cohesion, Coherence. In cases where the essay is based on another subject, the criterion "Subject-Specific Knowledge" will be added to the rubric. Students will write a journal of at least 250 words on an assigned topic for homework every week. Students will receive credit for journals of sufficient length submitted on time. Feedback will be given verbally and in writing at the start of the following lesson.	
	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 go through the writing process, respond appropriately to feedback, and produce essays of various genres that are logically structured, well argued, and supported by evidence from reliable sources.	Students go through the writing process, respond to some feedback, and produce essays of various genres that are for the most part logically structured, well argued, and supported by evidence from reliable sources.

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. Introductory Paragraphs 1: Students will consider the features and structures of effective introductory paragraphs.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
2 /	Introductory Paragraphs 2: Students will write introductory paragraphs.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
3 /	Supporting Paragraphs 1: Students will consider the features and structures of effective supporting paragraphs.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
4 /	Supporting Paragraphs 2: Students will write supporting paragraphs.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
5 /	Concluding Paragraphs & Titles: Students will consider the features and structures of effective concluding paragraphs and titles, then write their own.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
6 /	Opinion Essay 1: Students will review opinion paragraphs and consider the features and structures of opinion essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
7 /	Opinion Essay 2: Students will plan an opinion essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
8 /	Opinion Essay 3: Students will write the first draft of their opinion essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
9 /	Opinion Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
10 /	Opinion Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft.	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 /	Cause & Effect Essay 1: Students will review cause and effect paragraphs and consider the features and structures of cause and effect essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
12 /	Cause & Effect Essay 2: Students will plan a cause and effect essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
13 /	Cause & Effect Essay 3: Students will write the first draft of their cause and effect essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
14 /	Cause & Effect Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
15 /	Cause & Effect Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft. 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.	Journal.	30

令和3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		文学I		1	500900	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		
1年	渦辺 豊		白山麓C: 101.201				月曜 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	日本文学・日本文化	古典を読み楽しむことができるようになるために、歴史的仮名遣いや、漢文訓読のルールなど古典学習の基礎を身につける。読書体験をより豊かな人生を生きる指針確立の一助とすることができるようになるために、『羅生門』の読解から主人公の心の葛藤や苦悩について考察する。グローバル化が進む現代の日本で生きる人間としてアイデンティティを大切にできるようになるために、『水の東西』の分析から日本と西洋の文化的相違について考察する。白山麓の地域文化である「人形浄瑠璃」に親しむことができるようになるために、背景となる『平家物語』の世界を知る。							
2	古典								
3	読解力								
4	表現力								
5	地域文化								
授業の概要および学習上の助言									
<p>本科目の授業概要は以下の通りである。</p> <p>テーマ：日本文化の源流である古典的文学作品を読み味わい、読書体験からより豊かな人生を生きる指針及び日本文化の中で生きる人間としてのアイデンティティを確立する姿勢を養う。</p> <ol style="list-style-type: none"> 古文学習のために必要な基礎知識を学ぶ。 説話文学を物語の展開を楽しみながら読み味わう。 芥川龍之介『羅生門』を読み、作品の叙述に即して登場人物の状況や心理を把握し主題を捉え、自らの生き方について考察する。 山崎正和『水の東西』から作者が提示する日本と西洋の文化的相違について理解した上で、他の文的化相違例について考察する。 『平家物語』の朗読により日本語特有のリズムを味わい、平安時代末期の時代背景をも理解した上で、白山麓地区に伝わる「でくまわし」の代表的演目である近松門左衛門『出世景清』の世界を楽しむ。 									
【教科書および参考書・リザーブドブック】									
教科書：指定なし 参考書：指定なし リザーブドブック：21世紀版少年少女古典文学館（講談社）									
履修に必要な予備知識や技能									
日本語検定4級（中学校卒業）程度の国語能力。									
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	古文を朗読し、概要を理解できる。							
②	e, f	訓点に従って漢文を書き下し文にし、概要を理解できる。							
③	e, f	『羅生門』を読み、主題を理解した上で、自らの生き方についての考察を含む感想文を書ける。							
④	e, f	『水の東西』にならって、日本と西洋の文化相違について具体例をあげて説明するプレゼンができる。							
⑤	e, f	『平家物語』について、聞き手に臨場感を感じさせる朗読ができる。							
⑥	e, f	白山麓地域に伝わる「でくまわし」について理解し、『出世景清』の登場人物の生き方についての感想文を書くことができる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	60	20	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	30	10	0	0	0	0	40
	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
	学習に取り組む姿勢・意欲	0	0	0	0	10	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	レ
	②	レ
	③	レ
	④	
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	
	⑤	
	⑥	レ
成果発表 (口頭・実技)	①	
	②	
	③	
	④	レ
	⑤	レ
	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
小テスト：文語文法、漢文訓読のルールを十分に理解した上で、当該作品を正確に読み取ることができる。 登場人物の心理や論理を正確に読み取ることができる。	小テスト：文語文法、漢文訓読のルールを概ね理解した上で、当該作品の概要を読み取ることができる。 登場人物の心理や論理を概ね読み取ることができる。
レポート：登場人物の行動や心理を叙述に即して正確に読み取り、自分の人生観をふまえて感想を述べるることができる。	レポート：登場人物の行動や心理を概ね読み取り、自分なりの感想を述べる ことができる。
成果発表：東西文化の差異を自分独自の視点で分析した上で、視覚的効果に優れたスライドを作り、聴衆に強く訴えるプレゼンができる。 大きな声で臨場感あふれる朗読をすることができる。	成果発表：東西文化の差異を分析した上で、適切なスライドを作り、聴衆が十分に理解できるプレゼンができる。 大きな声で正確に朗読をすることができる。

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、Good Work!」：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ください。

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 古文学習に必要な基礎知識（歴史的仮名遣い）について理解する。	ガイダンス 講義 「古典文法入門」 課題シート 「古文と現代文の違い」	課題シートを再読して理解を深める（復習）	30
2 /	古文学習に必要な基礎知識（文節と単語、品詞）について理解する。 「児の飴食ひたること」（沙石集）を読み、内容を理解する。	課題シート 「文と文節・単語と品詞」 小テスト 「古典文法」 音読 課題シート	課題シートを再読して理解を深める。（復習）	30
3 /	古文学習に必要な基礎知識（動詞の活用）について理解する。	前時の小テスト返却 小テスト 「児の飴食ひたること」 講義 「文語動詞の活用」 課題シート「活用と活用形」	課題シートを再読して理解を深める（復習）	30
4 /	「大江山」（十訓抄）を読み、内容を理解する。	前時の小テスト返却 音読 課題シート 講義 「大江山」 小テスト「大江山」	課題シートを再読して理解を深める。（復習）	30
5 /	「羅生門」（芥川龍之介）第一、第二段落の内容を理解する。	前時の小テスト返却 音読 課題シート「羅生門」①② 講義 「羅生門」 第一段落 第二段落	課題シートを再読して理解を深める。（復習）	30
6 /	「羅生門」第三、第四段落の内容を理解する。	音読 課題シート「羅生門」③④ 講義 「羅生門」 第三段落 第四段落	課題シートを再読して理解を深める。（復習）	30
7 /	「羅生門」の原典である「今昔物語集」巻第二十九「羅城門の上層に登りて死人を見たる盗人の語・第十八」との比較をすることで、芥川龍之介が描いた「価値観の揺れ」について考察する。	講義 「作者のねらい」 作文 「老婆の論理」	「老婆の論理」を受け入れるか否か、自分の考えをまとめておく。（予習）	30
8 /	小テスト「羅生門」 芥川龍之介の生涯について理解する。	小テスト 講義 「芥川龍之介の生涯」	小テストに備える。（予習）	30
9 /	「水の東西」（山崎正和）を読み、論旨を理解する。	前時の小テスト返却 音読 課題シート 講義 「水の東西」 次時の課題の説明	次時の課題「○○の東西」について構想を練る。（予習）	30
10 /	日本と西洋の文化の差異を示す具体例について考察し、プレゼンの用意をする。	プレゼンのためのスライド作成。	プレゼンを完成させ練習をする。（復習）	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、Good Work!」：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ください。

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 /	「〇〇の東西」をプレゼン発表し、相互評価する。	プレゼン発表 相互評価記入	発表を通して、気づいた改善点を改める。(復習)	30
12 /	漢文学習のために必要な基礎知識を理解する。	講義・課題シート 「書き下しのきまり」	課題シートを再読して理解を深め、小テストに備える。(復習)	30
13 /	矛盾（韓非子）をきまりに従って正確に書き下す。 内容を理解した上で繰り返し朗読する。	課題シート「矛盾」 朗読「矛盾」 小テスト 「書き下しのきまり・矛盾」	「木曾の最期」（平家物語）を音読する。(予習)	30
14 /	「木曾の最期」（平家物語）の内容を理解した上で、臨場感を出すための効果的な朗読について工夫する。 朗読発表し、相互評価する。	講義「木曾の最期」 朗読「木曾の最期」 相互評価 評価シート	「出世景清」を通読する。 (予習)	30
15 /	白山麓に伝わる「でくまわし」について知る。 「出世景清」（近松門左衛門）の内容を理解し、登場人物の行動について感想文を書く。	講義「でくまわし」 (ビデオ) 講義「出世景清」 感想文「出世景清」	「でくまわし」の他の演目についても調べる。(復習)	30

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Elective	World Literature I	1	501100	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	STEVENSON, Ian	Hakusanroku C:101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Genres	Students will be able to read a variety of short pieces of writing from a variety of literary genres and academic disciplines. Students will keep a reading log/journal where they will be able to record and reflect on what they have read. Students will read critically and for meaning in order to be able to summarize, discuss, compare and contrast different readings and styles of literature.							
2	Fiction								
3	Non-Fiction								
4	Reading								
5	Writing								
Course Description and Expectations for Students (10.5pt)									
<p>Read! Be ready to talk about what you read. Students don't have to like everything they read but they need to read everything A student who doesn't like what they read and is ready to discuss it will do better than a student who likes what they read but is not ready to discuss it.</p>									
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 express one's own ideas in English. Ability to work in a group with a variety of different people. Work ethic to complete tasks on time. Desire to improve speaking and listening skills through asking for help and responding to feedback.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e, h	Students will be able to read and discuss a variety of literary genres and academic disciplines.							
②	e, f, i	Students will be able to keep a reading log/journal.							
③	g, i	Students will be able to summarize a piece of writing.							
④	e, h, f	Students will be able to compare and contrast different pieces of writing.							
⑤	i	Students will be able to read for understanding.							
⑥	e, f, i	Students will be able to read critically and express opinions on what was read.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	25	50	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	5	10	5	0	0	0	20
	Ability to think, reason and create	0	5	10	5	0	0	0	20
	Collaboration and leadership	0	5	10	5	0	0	0	20
	Announcement / Expression / Communication	0	5	10	5	0	0	0	20
	Attitude and motivation for learning	0	5	10	5	0	0	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	Worksheets will be graded on completion and correctness of answers. Feedback will be given during the next class session and/or on Manaba.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Students will write 4 genre based projects (for example, a short story), which will be graded on task achievement and coherence. Feedback will be given during the next class session and/or on Manaba.
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	Students will create a gallery walk presentation of their work and projects completed for each module, which will be graded on presentation skills, explanation and content. Feedback will be given during the next class session and/or on Manaba.
	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 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 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 /	Module 1: Autobiography	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
2 /	Module 1: Autobiography	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
3 /	Module 1: Autobiography	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
4 /	Module 1: Autobiography Autobiography Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
5 /	Module 1 and 2: Autobiography/Reporting Events and Details Autobiography Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Autobiography project.	30
6 /	Module 2: Reporting Events and Details	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
7 /	Module 2: Reporting Events and Details	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
8 /	Module 2: Reporting Events and Details	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
9 /	Module 2: Reporting Events and Details Reporting Events Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Reporting Events and Details project.	30
10 /	Module 3: Short Stories Reporting Events Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	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 /	Module 3: Short Stories	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
12 /	Module 3: Short Stories	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
13 /	Module 3: Short Stories Short Story Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
14 /	Module 3 and 4: Short Stories/Gallery Walk Short Story Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Short Story project.	30
15 /	Module 5: Gallery Walk	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Gallery Walk project	30

令和3年度 学習支援計画書

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 必修		歴史文化 IA	1	501400	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			
1年	上田 清史		白山麓C 101.201			月曜・木曜 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	キリスト教	この授業では「ヨーロッパ世界」形成の思想的基盤を理解するために「キリスト教の成立」について学び、のちの宗教改革の展開について考察する。またこれらの歴史的背景がどのような影響を西洋の異なる政治システムの誕生と発展に及ぼしたのかを理解するために、絶対王政や立憲王政の成立や展開、さらに共和政への移行について学ぶ。最後に「国民国家」という近代的概念の生まれた前提としての「国民意識の形成」について歴史的理解を深める。							
2	宗教改革								
3	絶対王政・立憲王政								
4	共和政								
5	国民意識								
授業の概要および学習上の助言									
世界の歴史・文化に対する学びを通じて、人間社会に存在する価値観の多様性と、その相克の過程とを理解し、歴史的な視野をもって現代社会を捉え直す素養を身につける。ここでは特に中近世のヨーロッパを中心に社会の在り方を概観し、西洋に変革をもたらした偉人たちの事跡を追って、各時代に求められた英雄像についての考察を深めるとともに、社会構造の形成過程、すなわち歴史上に出現した多様な政治形態について正しく理解する。									
授業内容について、理解が不十分と感じるところがあれば質問すること。講義のメモを取り各自でノートを補完すること。									
【教科書および参考書・リザーブブック】									
教科書：世界史B 尾形勇 東京書籍 参考書：ハンドアウト リザーブブック：									
履修に必要な予備知識や技能									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	c, e	西洋におけるキリスト教の伝播について説明できる							
②	c, e	十字軍運動の展開について説明できる							
③	c, e	宗教改革の概要について説明できる							
④	c, e	イギリスの立憲王政の過程について説明できる							
⑤	c, e	アメリカ合衆国の独立運動について説明できる							
⑥	c, e	ナポレオンがもたらした国民意識の広がりについて説明できる							
達成度評価									
評価方法		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
指標と評価割合									
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。論述式問題の答えを四つの基準から評価する。①「歴史の流れ」に対する理解度。②解答に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	中間テスト。論述式問題の解答を次の四つの基準から評価する。①「歴史の流れ」に対する理解度。②解答に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。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	1回の発表：教員と相談した上で前学期に学んでいる世界史の内容からテーマを決定する。 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	学期末に提出する。ポートフォリオには配布資料(メモを取る事)・中間テストの答え・五つの課題・発表の作成資料(一点)などを添える事。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。(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
西洋におけるキリスト教の伝播について説明できる。 十字軍運動の展開について説明できる。 宗教改革の概要について説明できる。 イギリスの立憲王政の過程について説明できる。 アメリカ合衆国の独立運動について説明できる。 ナポレオンがもたらした国民意識の広がりについて説明できる。	西洋におけるキリスト教の伝播についてその要点を述べる事ができる。 十字軍運動の展開についてその要点を述べる事ができる。 宗教改革の概要についてその要点を述べる事ができる。 イギリスの立憲王政の過程についてその要点を述べる事ができる。 アメリカ合衆国の独立運動についてその要点を述べる事ができる。 ナポレオンがもたらした国民意識の広がりについてその要点を述べる事ができる。

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ください。

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 /	キリスト教の誕生 キリスト教の成立について理解する	イエスの言行と使徒たちの 布教活動を中心に講義する	新約聖書について調べる ノート（プリント）を見直して補 完する。	20 10
2 /	ヨーロッパ世界の形成 ゲルマンの大移動について理解する	アッティラの築いたフン王 国の盛衰を中心に講義する 課題①を配布する	ゲルマン人について調べる ノート（プリント）を見直して補 完する。	20 10
3 /	フランスの分裂 神聖ローマ帝国の成立を理解する	カール大帝の事績と領土継 承問題を中心に講義する 課題①を提出する	フランク王国について調べる ノート（プリント）を見直して補 完する。	20 10
4 /	イギリスの誕生 ノルマン征服について理解する	ウィリアムの事績とイギリ スの民族事情を中心に講義す る 課題②を配布する	ヴァイキングについて調べる ノート（プリント）を見直して補 完する。	20 10
5 /	十字軍① 十字軍について理解する	ウルバヌス2世の演説と当 時の教皇庁の事情を中心に講 義する 課題②を提出する	十字軍について調べる ノート（プリント）を見直して補 完する。	20 10
6 /	十字軍② レコンキスタについて理解する	イサベル女王とグラナダの 攻防を中心に講義する	レコンキスタについて調べる ノート（プリント）を見直して補 完する。	20 10
7 /	中間テスト 百年戦争 百年戦争の概要を理解する	中間テスト（50分間） ジャンヌ・ダルクの業績と 後世におけるその評価を中心 に講義する	中間テストの準備をする。 百年戦争について調べる ノート（プリント）を見直して補 完する。	60 10
8 /	宗教改革 宗教改革の展開を理解する	ルターとカトリックの思想 的な相違を中心に講義する 課題③を配布する。	宗教改革について調べる ノート（プリント）を見直して補 完する。	20 10
9 /	大英帝国の時代 エリザベス一世について理解する	エリザベスとフェリペ2世 との攻防を中心に講義する 課題③を提出する。	エリザベス1世について調べる ノート（プリント）を見直し て補完する。	20 10
10 /	イギリスの内乱 立憲王政の確立について理解する	クロムウェルの活動とその 思想を中心に講義する 課題④を配布する	イギリス市民革命について調べ る ノート（プリント）を見直して 補完する。	20 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、Good Work!」：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ください。

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 /	フランスの内乱 絶対王政の展開について理解する 英仏の抗争 英仏の経済派遣抗争について理解する	アンリ4世の即位とその宗教 的立場を中心に講義する イギリスとフランスの経済政 策を中心に講義を進める 課題④を提出する	ブルボン朝について調べる 第2次英仏百年戦争を調べる ノート（プリント）を見直して補 完する。	30 15
12 /	アメリカの独立 合衆国の独立運動について理解する	ワシントンの事績と独立の思 想を中心に講義する。	アメリカ独立革命について調べ る ノート（プリント）を見直して補 完する。	20 10
13 /	発表	内容・発表の態度・作成資料 などを評価する。受講生による 相互評価も取り入れる。 課題⑤を配布する	発表の準備をする 自分や他の受講者の発表について 評価する。	60 10
14 /	フランス革命 共和政への移行について理解する	市民革命を支えた近代の啓蒙 思想を中心に講義する 課題⑤を提出する	フランス革命について調べる ノート（プリント）を見直して補 完する。	20 10
15 /	ナポレオンの戦争 国民意識の形成について理解する	ナポレオンの事績と世界に与 えた影響を中心に講義する	ナポレオンについて調べる ノート（プリント）を見直して補 完する。	20 10
16 /	定期試験	定期試験（50分） 学生の世界史に対する知識と 理解度を確かめる	授業内容を学習する 試験内容・結果を確認する	60 10
17 /	自己点検			

令和3年度 学習支援計画書

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 必修		歴史文化IB	1	501500	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			
1年	上田 清史		白山麓C 101.201			月曜・木曜 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	勢力均衡	この授業では近代における世界史の流れを理解するために、西洋列強の「勢力均衡」という国家戦略について学ぶ。また近代に於いて宗教と民族の果たした役割を理解するためにオスマン帝国とヨーロッパ社会との確執について学ぶ。また東アジアにおける新しい国際秩序の形成という文脈の中で、日本の近代化と列強との関係について考える。さらに世界規模の戦争の背景を理解する為に、両世界大戦の展開と影響について考察する。最後に世界史から見た日本の政治体制や日本国憲法の確立過程の意義について考える。							
2	帝国主義								
3	国民国家								
4	憲法								
5									
授業の概要および学習上の助言									
世界の歴史・文化に対する学びを通じて、人間社会に存在する価値観の多様性と、その相克の過程を理解し、歴史的な視野をもって現代社会を捉え直す素養を身に着ける。ここでは特に近代ヨーロッパに始まる国民意識の形成と国民国家の出現、列強の誕生と植民地支配、帝国主義による2度の世界大戦の顛末を概観し、その延長上に現代社会を捉え直す。以上の学びを通じて、今日の国際社会における日本の立ち位置を客観的に把握する。									
授業内容について理解が不十分と感じるところがあれば質問すること。講義のメモを取り各自でノートを補完すること。									
【教科書および参考書・リザーブドブック】									
教科書：「世界史B」、尾形勇、東京書籍 参考書：ハンドアウト リザーブドブック：									
履修に必要な予備知識や技能									
歴史文化 IA									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	e	勢力均衡という国家戦略について説明できる。							
②	e	オスマン帝国とヨーロッパ社会との確執について説明できる。							
③	c, e	日本の近代化と列強との関係について説明できる。							
④	c, e	第一次世界大戦との展開と影響について説明できる。							
⑤	c, e	第二次世界大戦の展開と影響について説明できる。							
⑥	c, e	日本の政治体制と日本国憲法の確立過程について説明できる。							
達成度評価									
評価方法		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
指標と評価割合									
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」に対する理解度。②解答に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	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」に対する理解度。②解答に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。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	1回の発表：教員と相談した上で後学期に学んでいる世界史の内容からテーマを決定する。 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配布資料(メモを取る事)・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事。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
<p>勢力均衡という国家戦略について説明できる。</p> <p>オスマン帝国とヨーロッパ社会との確執について説明できる。</p> <p>日本の近代化と列強との関係について説明できる。</p> <p>第一次世界大戦との展開と影響について説明できる。</p> <p>第二次世界大戦の展開と影響について説明できる。</p> <p>日本の政治体制と日本国憲法の確立過程について説明できる。</p>	<p>勢力均衡の要点について述べる事ができる。</p> <p>オスマン帝国とヨーロッパ社会との確執の要点を述べる事ができる。</p> <p>日本の近代化と列強との関係についてその要点を述べる事ができる。</p> <p>第一次世界大戦の展開と影響についてその要点を述べる事ができる。</p> <p>第二次世界大戦の展開と影響についてその要点を述べる事ができる。</p> <p>日本の政治体制と日本国憲法の確立過程についてその要点を述べる事ができる。</p>

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、Good Work!」：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ください。

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 /	列強の近代へ 大国の勢力均衡について理解する。	ナポレオン亡き後の列強の 正統主義を中心に講義する。 課題①を配布する。	ウィーン体制について調べる。 ノートを見直して補強する。	20 10
2 /	自由主義の台頭 ナショナリズムについて理解する。	列強各国の国民意識の形成 を中心に講義する。 課題①を提出する。	国民意識について調べる。 ノートを見直して補強する。	20 10
3 /	イスラムの世界 オスマン帝国について理解する。	トルコを中心とするイスラ ム共同体の形成を中心に講義 する。 課題②を配布する。	オスマン帝国について調べる。 ノートを見直して補強する。	20 10
4 /	東方問題の発生 中東の国際問題について理解する。	パレスチナ問題の原因と現 在を中心に講義する。 課題②を提出する	東方問題について調べる。 ノートを見直して補強する。	20 10
5 /	帝国主義の台頭 列強の拡大について理解する。	近代国家における産業資本 主義の発展を中心に講義す る。	資本主義について調べる。 ノートを見直して補強する。	20 10
6 /	中間テスト アフリカ分割 列強のアフリカ支配について理解する。	中間テスト (50分間) 列強のアフリカ植民地化を 中心に講義を進める。	テストの準備をする アフリカ植民地について調べ る。 ノートを見直して補強する。	60 10
7 /	列強とアジア アヘン戦争について理解する。	アヘン戦争をめぐる列強の 思惑を中心に講義する。 課題③を配布する	アヘン戦争について調べる。 ノートを見直して補完する。	20 10
8 /	日清・日露戦争 列強と日本の争いについて理解する。	近代日本の生き残り戦略を 中心に講義する。 課題③を提出する。	日清・日露戦争について調べ る。 ノートを見直して補完する。	20 10
9 /	第一次世界大戦 第一次世界大戦について理解する。	三国同盟と三国協定の相克 を中心に講義する。	第一次世界大戦について調べ る。 ノートを見直して補完する。	20 10
10 /	国民国家の形成 列強からの解放運動について理解する。	列強のアフリカ支配をめぐ る思惑を中心に講義する。 課題④を配布する。	アフリカ植民地について調べ る。 ノートを見直して補完する。	20 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、Good Work!」：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ください。

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 /	世界恐慌 世界恐慌について理解する。	アメリカ経済と戦争との関わりを中心に講義する 課題④を提出する。	世界恐慌について調べる。 ノートを見直して補完する。	20 10
12 /	第二次世界大戦① 三国枢軸について理解する。	世界恐慌時の日本の経済的危機とその生き残り戦略を中心に講義する。	第二次世界大戦について調べる。 ノートを見直して補完する。	20 10
13 /	発表	内容・発表の態度・作成資料などを評価する。受講生による相互評価も取り入れる。 課題⑤を配布する。	発表の準備をする。 自分や他の受講者の発表について評価する。	20 10
14 /	第二次世界大戦② 太平洋戦争について理解する。	世界恐慌時の日本の経済的危機とその生き残り戦略を中心に講義する 課題⑤を提出する。	太平洋戦争について調べる。 ノートを見直して補完する。	20 10
15 /	大戦後の日本 日本国憲法や日本経済の再建について理解する。	戦後日本における占領政策や日本の技術革新と経済成長を中心に講義する。	日本国憲法について調べる 石油危機について調べる。 ノートを見直して補完する	20 10
16 /	定期試験	学生の世界史に対する知識と理解度を確かめる	授業内容を学習する 試験内容・結果を確認する	60 10
17 /	自己点検			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		History and Culture (English) IA		1	501800	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BASQUILL, Edward		Hakusanroku C:101.201				(M-F) 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	World history			Students will be able to explore, discuss, draw connections and critically analyze thematic events throughout world history. Students will interact with these historical events through primary and secondary sources. Students will investigate the connections between historical events and communicate their findings, in English, through writing and presentations.					
2	World cultures								
3	Ancient history								
4	Social history								
5	History of technology								
Course Description and Expectations for Students (10.5pt)									
<p>This thematically divided course will be delivered in classes which through a four-step process that will use guiding questions to help students interact with a variety of historical sources with the goal of finding the underlying connections between those sources. The four steps for each class are as follows: an introduction of a current event with a guiding question and an initial written reaction, a teacher led activity with a core history topic in which students will take notes, a personal investigation of a student selected topic from teacher provided material, and a written reflection in which students will recall their initial reaction and explain how it has evolved. The overarching theme for both World History (English) 1B and World History (English) is "Progress." This course will explore the concept of progress through two themes: (1) Power and responsibility and (2) culture and social change.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Traditions & Encounters Vol. 1 (Jerry H. Bentley, et. Al., McGraw Hill) Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e,i	Students will be able to recall and explain historical events within the context of a theme.							
②	e,i	Students will be able to examine historical/current sources and identify key information related to a theme.							
③	e,i	Students will be able to draw connections between historical/current events to answer questions related to a theme.							
④	e,i	Students will be able to create and defend a position by providing support/evidence for their position							
⑤	e,i	Students will be able to plan, draft, and write history reports/presentations in English.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	10	30	20	0	40	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	15	10	0	20	0	55
	Ability to think, reason and create	0	0	10	5	0	10	0	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	5	0	10	0	20
	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	2 Quizzes will be given throughout the semester. These quizzes will assess the students' understanding of workshops about writing historical reports. Quizzes will be graded and returned by the following class.	
	②		
	③		
	④		
	⑤		✓
	⑥		
Reports	①	A final reflection paper based on the topic of "progress" that will include examples from the themes covered during the semester. Reports will be graded and returned within a week of being handed in.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Presentations	①	A final presentation based on the topic of "progress" that will include examples from the themes covered during the semester. Presentations will be graded at the time they are given.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	Notes taken on various sections of class will be graded based on organization and content. Initial reaction statements to a current event will be given during the beginning of every class. Evolved reaction statements to the current event plus historical topics will be given for homework for every class. Portfolio will be graded and returned weekly.	
	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 demonstrate historical thinking and its value through drawing conclusions, providing evidence, and making connections. Students will show a strong understanding of the past and how it is connected/has influenced the present, as well as the possibility of predicting future outcomes. Moreover, students will be able to draw on these understanding of the past, present, and future to create logical and coherent assertions.	Students will be able to demonstrate historical thinking and its value through drawing conclusions, providing evidence and making connections. With support, students will be able to make connections and use information to create and support their assertions.

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 orientation. Examine syllabus, study and practice effective note taking, discuss class structure, define historical thinking, define primary and secondary sources, study and practice citing and using sources.	Lecture, teacher provided worksheets and documents, and teacher led discussion.	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
2 /	How should we define power? 1. Related current event and reaction. 2. Julius Caesar and the Roman Republic. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
3 /	Relationship between power/responsibility? 1. Related current event and reaction. 2. Greece and the Peloponnesian War. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
4 /	Why do people accept authority? 1. Related current event and reaction. 2. Hitler and Nazi Germany. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
5 /	Is war ever justifiable? 1. Related current event and reaction. 2. Muhammad and Mecca. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
6 /	Do companies have responsibility to society? 1. Related current event and reaction. 2. The Great Depression. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
7 /	Workshop: Organizing and writing a paragraph. Topic sentences, main ideas, details, and evidence-based examples.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Quizzes: Post-workshop quiz.	30
8 /	Why do people resist culture change? 1. Related current event and reaction. 2. The Boxer Rebellion. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
9 /	Why does culture change over time? 1. Related current event and reaction. 2. The Atlantic Slave Trade. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
10 /	Can culture change be forced? 1. Related current event and reaction. 2. The Mongols. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	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 /	Monoculturalism or multiculturalism? 1. Related current event and reaction. 2. Hellenistic Period. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
12 /	Can technology change culture? 1. Related current event and reaction. 2. Agricultural Revolution. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
13 /	Workshop: writing essay introduction and conclusions.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Quizzes: Post-workshop quiz.	30
14 /	Reflection and Presentation Part 1 Outline and write an essay on the overall theme of "Progress" and how Power/Responsibility and Culture/Social Change are related to this theme.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Reports: Finalize essay draft	30
15 /	Reflection and Presentation Part 2 Use essay draft to create a presentation. Make a PPT and record a 10-minute presentation for the class.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Reports: Revise essay using teacher feedback.	

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		History and Culture (English) I B		1	501900	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BASQUILL, Edward		Hakusanroku C:101.201				(M-F) 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	World history			Students will be able to explore, discuss, draw connections and critically analyze thematic events throughout world history. Students will interact with these historical events through primary and secondary sources. Students will investigate the connections between historical events and communicate their findings, in English, through writing and presentations.					
2	World cultures								
3	Ancient history								
4	Social history								
5	History of technology								
Course Description and Expectations for Students (10.5pt)									
<p>This thematically divided course will be delivered in classes which through a four-step process that will use guiding questions to help students interact with a variety of historical sources with the goal of finding the underlying connections between those sources. The four steps for each class are as follows: an introduction of a current event with a guiding question and an initial written reaction, a teacher led activity with a core history topic in which students will take notes, a personal investigation of a student selected topic from teacher provided material, and a written reflection in which students will recall their initial reaction and explain how it has evolved. The overarching theme for both World History (English) 1B and World History (English) is "Progress." This course will explore the concept of progress through two themes; (1) Technology and innovation and (2) growth and sustainability.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Traditions & Encounters Vol. 1 (Jerry H. Bentley, et. Al., McGraw Hill) Reference books: Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e,i	SWBAT recall and explain historical events within the context of a theme.							
②	e,i	SWBAT examine historical/current sources and identify key information related to a theme.							
③	e,i	SWBAT draw connections between historical/current events to answer questions related to a theme.							
④	e,i	SWBAT create and defend a position by providing support/evidence for their position							
⑤	e,i	SWBAT plan, draft, and write history reports/presentations in English.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	10	30	20	0	40	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	15	10	0	20	0	55
	Ability to think, reason and create	0	0	10	5	0	10	0	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	5	0	10	0	20
	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	2 Quizzes will be given throughout the semester. These quizzes will assess the students' understanding of workshops about writing historical reports. Quizzes will be graded and returned by the following class.	
	②		
	③		
	④		
	⑤		✓
	⑥		
Reports	①	A final reflection paper based on the topic of "progress" that will include examples from the themes covered during the semester. Reports will be graded and returned within a week of being handed in.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Presentations	①	A final presentation based on the topic of "progress" that will include examples from the themes covered during the semester. Presentations will be graded at the time they are given.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	Notes taken on various sections of class will be graded based on organization and content. Initial reaction statements to a current event will be given during the beginning of every class. Evolved reaction statements to the current event plus historical topics will be given for homework for every class. Portfolio will be graded and returned weekly.	
	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 demonstrate historical thinking and its value through drawing conclusions, providing evidence, and making connections. Students will show a strong understanding of the past and how it is connected/has influenced the present, as well as the possibility of predicting future outcomes. Moreover, students will be able to draw on these understanding of the past, present, and future to create logical and coherent assertions.	Students will be able to demonstrate historical thinking and its value through drawing conclusions, providing evidence and making connections. With support, students will be able to make connections and use information to create and support their assertions.

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 orientation. Examine syllabus, study and practice effective note taking, discuss class structure, define historical thinking, define primary and secondary sources, study and practice citing and using sources.	Lecture, teacher provided worksheets and documents, and teacher led discussion.	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
2 /	Can technology replace people? 1. Related current event and reaction. 2. Machines and the Industrial Revolution. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
3 /	Can we justify frontier exploration? 1. Related current event and reaction. 2. The Age of Exploration. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
4 /	Are considerations needed when innovating? 1. Related current event and reaction. 2. The Silk Road and road building. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
5 /	Large/sudden technology changes good or bad? 1. Related current event and reaction. 2. World War I. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
6 /	Does art/nature have an influence on innovation? 1. Related current event and reaction. 2. Ancient Sumer. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
7 /	Workshop: Presentation skills focused on audience connection; rhetorical questions, appeals to emotion, and humor.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Quizzes: Post-workshop quiz.	30
8 /	Can the planet sustain a growing population? 1. Related current event and reaction. 2. Augustus' marriage laws. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
9 /	Does responsibility to the next generation exist? 1. Related current event and reaction. 2. The Enlightenment (part 1). 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
10 /	Why is there a large wealth gap in the world? 1. Related current event and reaction. 2. English Colonialism. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	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 /	Are first world economies sustainable? 1. Related current event and reaction. 2. Capitalism vs Communism. 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
12 /	Can we improve the future using the past? 1. Related current event and reaction. 2. Enlightenment (Part 2). 3. Student selection of a related source. 4. Review of initial reaction and rewrite.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Portfolio: Class notes, Initial Reaction, and Evolved Reaction.	30
13 /	Workshop: Presentation skills with a focus on using pauses, using the stage, and answering audience questions.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Quizzes: Post-workshop quiz.	30
14 /	Reflection and Presentation Part 1 Outline and write an essay on the overall theme of "Progress" and how Technology/innovation and growth/sustainability are related to this theme.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Reports: Finalize essay draft	30
15 /	Reflection and Presentation Part 2 Use essay draft to create a presentation. Make a PPT and record a 10 minute presentation for the class.	Lecture, teacher provided worksheets and documents, and teacher led discussion	Reports: Revise essay using teacher feedback.	30

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Pre-Calculus A	2	502600	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	KIHARA, Hitoshi CARRERA, Steven BRANDON, Wohlfarth	Hakusanroku C: 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Sets	Students will be able to manipulate algebraic expressions, rational expressions, equations and inequalities using properties of real numbers, define a function and its properties, graph functions via graphing transformation techniques, combine functions through algebraic operations and composition of functions, determine if functions are one to one by the Horizontal line test, and define inverse functions, its properties and graph.							
2	Algebraic Expressions								
3	Rational Expressions								
4	Function Transformations								
5	Inverse Functions								
Course Description and Expectations for Students (10.5pt)									
<p>In this course, we will study the real numbers thoroughly, starting with the idea of a set. We will pay close attention to the properties of real numbers, exponents and radicals. We will then talk about algebraic and rational expressions, which then lead to the idea of an equation. We will then study complex numbers and inequalities. Finally, we will introduce the idea of a function, the graph of a function, terminology of functions like domain and range, transformation techniques for graphing functions, the algebra of functions, composition of functions, one-to-one functions and inverse functions.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Pre-Calculus Mathematics for Calculus 8th Edition by James Stewart Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Students need to have a basic understanding of numbers and operations on numbers. 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.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a, g, i	Students will be able to manipulate algebraic and rational expressions, equations and inequalities.							
②	a, d, g, i	Students will be able to define a function, understand its properties and graph.							
③	a, d, f, g	Students will be able to graph functions via techniques of graphing transformations.							
④	a, d, g, i	Students will be able to combine functions through algebraic operations and composition of functions.							
⑤	a, d, g, i	Students will be able to determine if a function is one-to-one by the horizontal line test.							
⑥	a, g, i	Students will be able to define an inverse function, understand its properties and graph.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		60	20	0	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	5	0	0	45
	Ability to think, reason and create	30	10	0	0	5	0	0	45
	Collaboration and leadership	0	0	0	0	5	0	0	5
	Announcement / Expression / Communication	0	0	0	0	5	0	0	5
	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	✓	<p>There will be two tests, the mid-term test and the final exam.</p> <p>Each test is worth 30% of your grade.</p> <p>In total, 60% of your final grade will be obtained through these tests.</p> <p>It is crucial that you study all your notes, homework and quizzes before a test.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	<p>There will be one quiz each lecture which will cover material from the previous lesson.</p> <p>The average of all your quizzes will be your final score which is worth 20% of your final grade.</p> <p>It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes.</p> <p>These quizzes are meant to make sure you are keeping up with the class.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	<p>Students will have to submit a HW/worksheet assignment each lecture.</p> <p>The grading criteria will be based on whether or not you have checked your answer and have corrected your mistakes completely.</p> <p>In total, your works will equate to 20% of your final grade.</p>
	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)
<p>Students are curious, ask a lot of questions and show willingness to try new ideas, no matter of failure. Students further understand that making mistakes is crucial to learning and go back and correct any mistakes they encountered in their work/HW/quizzes/exams. In essence, students learn the procedure of learning.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 Introduce the syllabus and the rules for the class.	Lecture	Review: Read the syllabus. Preparation: Read Section 1.1.	30
2 /	Sets Part I Understand the idea of a set and set relations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.1.	30
3 /	Sets Part II Understand the properties of real numbers and set-builder notation.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.1.	30
4 /	Real Numbers Understand the subsets of real numbers and the absolute value of a number.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.1.	30
5 /	Exponents Understand exponential notation, laws of exponents and how to write a number in scientific notation.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.2.	30
6 /	Radicals Understand the definition of the n th root and properties of the n th root. Also, understand the definition of rational exponents and how to rationalize the denominator.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.2.	30
7 /	Summary of Exponents Get used to the calculation with exponents.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.2.	30
8 /	Algebraic Expressions Part I Understand what an algebraic expression is. Understand algebraic terminology for polynomials. Also, understand special product formulas and how to multiply polynomials by the distributive property.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.3.	30
9 /	Algebraic Expressions Part II Understand the following factoring techniques: by common factors, trinomials, special formulas and by grouping.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.3.	30
10 /	Rational Expressions Part I Understand what a rational expression is. Understand the definition of the domain of an algebraic expression. Also, understand how to simplify rational expressions and how to multiply and divide rational expressions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.4.	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 /	Rational Expressions Part II Understand how to add and subtract rational expressions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.4.	30
12 /	Rational Expressions Part III Understand how to compound fractions and how to rationalize the denominator or numerator.	Quiz Lecture Workshee	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.4.	30
13 /	Equations Part I Understand the properties of equality, linear equations, quadratic equations and the zero-product property.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.5.	30
14 /	Equations Part II Understand how to complete the square, the quadratic formula and the discriminant.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.5.	30
15 /	Equations Part III Understand how to solve the rational equations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.5.	30
16 /	Equations Part IV Understand how to solve the radical equations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.5.	30
17 /	Summary and review of unclear parts in the previous topics.	Quiz Review all worksheets and ask any question for any difficult problem.	Review the topics studied in the previous classes Review all the worksheets problems	90
18 /	Mid-term exam	A quick review. Have the mid-term exam.	Review all the worksheets problems.	90
19 /	Complex Numbers Part I Understand the definition of a complex number and arithmetic operations on complex numbers.	Mid-term exam return Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.6.	30
20 /	Complex Numbers Part II Understand square roots of negative numbers and how we can get complex solutions for quadratic equations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.6.	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 /	Inequalities Understand rules of inequalities, how to solve linear inequalities and non-linear inequalities.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 1.8.	30
22 /	Functions Understand the definition of a function, how to analyze a function, how to evaluate a function.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.1.	30
23 /	Graphs of Functions Part I Understand the definition of a graph, how to draw a graph of a function by plotting points for: x^2 , \sqrt{x} , x , x^3 , $\sqrt[3]{x}$ and for piece-wise functions: $ x $, $[x]$, $\lfloor x \rfloor$.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.2.	30
24 /	Graphs of Functions Part II Understand the vertical line test, how to obtain the domain and range from a graph.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.2.	30
25 /	Transformations of Functions Part I Understand how to graph a function by vertical and horizontal shifts. Also, understand how to reflect graphs about the x-axis and the y-axis.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.6.	30
26 /	Transformations of Functions Part II Understand how to graph functions by vertical stretching and shrinking. Also, by horizontal stretching and shrinking.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.6.	30
27 /	Combining Functions Understand the algebra of functions and the composition of functions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.7.	30
28 /	One-to-One Functions and their Inverses Part I Understand the definition of a one-to-one function and how to determine if a function is one-to-one by the horizontal line test. Also, understand what it means to be an inverse function and the inverse function property.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.8.	30
29 /	One-to-One Functions and their Inverses Part II Understand how to find the inverse of a function and how to graph the inverse of a function.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 2.8.	30
30 /	Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120

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)
31 /	Final exam		Review all materials	120
32 /	Final exam return			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Pre-Calculus B	2	502700	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	KIHARA, Hitoshi / WOHLFARTH, Brandon	Hakusan-roku C 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Polynomial Functions	Students will be able to define a quadratic function and its graph, learn about the general polynomial of degree n and its basic graphs, divide polynomials by long division and synthetic division, define a rational function and learn about its properties and graph, define an exponential function and learn about its properties and graph, and define a logarithmic function and learn about its properties and graph.							
2	Dividing Polynomials								
3	Rational Functions								
4	Exponential Functions								
5	Logarithmic Functions								
Course Description and Expectations for Students (10.5pt)									
<p>This course will continue with the ideas of pre-calculus, starting with quadratic functions. We will have a thorough study of quadratic functions, polynomial functions, their properties and graphs. We will then learn how to divide polynomials by the division algorithm and learn how to completely factor a polynomial by the Fundamental Theorem of Algebra and the Complete Factorization Theorem. We will then talk about Rational Functions and partial fraction decomposition. The other half of the class will focus on exponential functions, their graphs and properties, as well as logarithmic functions, their graphs and properties.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Students need to have a good understanding about the topics covered in the previous class about functions. 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.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a, g, i	Students will be able to define a quadratic function, its properties and graph.							
②	a, d, g, i	Students will be able to define a polynomial function of degree n, its properties and basic graphs.							
③	a, d, f, g	Students will be able to divide polynomials by long division and by synthetic division.							
④	a, d, g, i	Students will be able to define a rational function, its properties and graph.							
⑤	a, d, g, i	Students will be able to define an exponential function, its properties and graph.							
⑥	a, g, i	Students will be able to define a logarithmic function, its properties and graph.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		60	20	0	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	5	0	0	45
	Ability to think, reason and create	30	10	0	0	5	0	0	45
	Collaboration and leadership	0	0	0	0	5	0	0	5
	Announcement / Expression / Communication	0	0	0	0	5	0	0	5
	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	✓	<p>There will be two tests, the mid-term test and the final exam.</p> <p>Each test is worth 30% of your grade.</p> <p>In total, 60% of your final grade will be obtained through these tests.</p> <p>It is crucial that you study all your notes, handouts, homework and quizzes before a test.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	<p>There will be one quiz each lecture which will cover material from the previous lesson.</p> <p>The average of all your quizzes will be your final score which is worth 20% of your final grade.</p> <p>It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes.</p> <p>These quizzes are meant to make sure you are keeping up with the class.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	<p>Students will have to submit a HW/worksheet assignment each lecture.</p> <p>The grading criteria will be based on whether or not you have checked your answer and have corrected your mistakes completely.</p> <p>In total, your works will equate to 20% of your final grade.</p>
	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)
<p>Students are curious, ask a lot of questions and show willingness to try new ideas, no matter of failure. Students further understand that making mistakes is crucial to learning and go back and correct any mistakes they encountered in their work/HW/quizzes/exams. In essence, students learn the procedure of learning.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 Quadratic Functions Part I Understand the general and standard form of a quadratic function.	Lecture Worksheet	Review: Read the syllabus. Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.1.	30
2 /	Quadratic Functions Part II Understand maximum and minimum values of quadratic functions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.1.	30
3 /	Polynomial Functions and their Basic Graphs I Understand the definition of a polynomial of degree n , how to graph monomials using graphing transformations and the end behavior of polynomials.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.2.	30
4 /	Polynomial Functions and their Basic Graphs II Understand how to use zeros to graph a polynomial function.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.2.	30
5 /	Dividing Polynomials Part I Understand how to do long division of polynomials by the division algorithm.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.3.	30
6 /	Dividing Polynomials Part II Understand how to divide of polynomials by synthetic division and how to transform the answer in the form of $P(x)=Q(x) \times D(x)+R(x)$.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.3.	30
7 /	Dividing Polynomials Part III Understand how to use the Remainder Theorem and the Factor Theorem.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.3.	30
8 /	Rational Zeros of Polynomials Understand how to use the Rational Zeros Theorem to find the rational zeros of a polynomial.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.4.	30
9 /	Complex Zeros and the Fundamental Theorem of Algebra Part I Understand how to use the Fundamental Theorem of Algebra and the Complete Factorization Theorem in order to factor a polynomial completely.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.5.	30
10 /	Complex Zeros and the Fundamental Theorem of Algebra Part II Understand the Conjugate Zeros Theorem and how it helps us to find polynomials with specified zeros.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.5.	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 /	Rational Functions Part I Understand the definition of a rational function. Understand how graphing the simple rational function $y = \frac{a}{x}$ helps us define the vertical and horizontal asymptotes.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.6.	30
12 /	Rational Functions Part II Understand how to find vertical asymptotes, horizontal asymptotes, domain and range of a rational function. Also, understand the three cases for horizontal asymptotes.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.6.	30
13 /	Rational Functions Part III Understand how to graph rational functions by using x-int, y-int and asymptotes.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.6.	30
14 /	Rational Functions Part IV Understand the definition of holes and slant asymptotes and how to graph rational functions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.6.	30
15 /	Polynomial & Rational Inequalities Understand how to solve polynomial and rational inequalities.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 3.7.	30
16 /	Partial Fractions Understand how to perform partial fraction decomposition	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 10.7.	30
17 /	Summary and review of unclear parts in the previous topics.	Quiz Review all worksheets and ask any question for any difficult problem.	Review the topics studied in the previous classes Review all the worksheets problems	90
18 /	Mid-term test	A quick review. Have the mid-term test.	Review all the worksheets problems.	90
19 /	Exponential Functions Part I Understand the definition of an exponential function, its graph and its properties. Also, understand how to graph exponential functions by techniques of graphing transformations.	Mid-term test return Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.1.	30
20 /	Exponential Functions Part II Understand the definitions of the number e, and how to find the values of the natural exponential function. Also, understand how to graph the natural exponential function by techniques of graphing transformations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.2.	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 /	Exponential Functions Part III Understand the compound interest formula and the continuously compound interest formula	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.2.	30
22 /	Logarithmic Functions Part I Understand the definition of the logarithmic function and be able to use the definition to convert from an exponential equation to a logarithmic equation. Understand the notion of a common logarithm and a natural logarithm and properties of logarithms.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.3.	30
23 /	Logarithmic Functions Part II Understand how to graph logarithmic functions by techniques of graphing transformations.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.3.	30
24 /	Laws of Logarithms Part I Understand the laws of logarithms and how to use them to expand and combine logarithms. Also, understand how to evaluate logarithmic expressions using laws of logarithms.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.4.	30
25 /	Laws of Logarithms Part II Understand how to use the change of base formula.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.4.	30
26 /	Exponential Equations Part I Understand how to solve exponential equations.	Online Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.5.	30
27 /	Exponential Equations Part II Understand how to solve exponential equations by techniques of substitutions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.5.	30
28 /	Logarithmic Equations Understand how to solve logarithmic equations	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.5.	30
29 /	Modeling with Exponential Functions and Logarithmic Scales Understand how to model with exponential functions and logarithmic functions.	Quiz Lecture Worksheet	Review: Finish worksheet/HW. Prepare the quiz. Preparation: Read Section 4.6.	30
30 /	Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120

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)
31 /	Final exam		Review all materials	120
32 /	Final exam return			

2021 Syllabus

Instructor with "*" means an instructor with company experience

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Fundamental Mathematics A		2	503000	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	KIHARA, Hitoshi HUSSIEN, Alaa		Hakusanroku C:101.201				(Mon, Wed, Thu). 16:30-17:30		
Course Objectives									
Keywords			Learning Objectives of the Course						
1	Equation of a line and a circle		It is important to learn the fundamentals of mathematics to be able to understand and solve many real life problems. In this course students learn about distance between points, equation of lines and circles. They also know about inequalities which are helpful for optimization applications. Then, they know the basics of statistics and how to represent data using different types of diagrams. Finally they learn about probability of events and Baye's theorem.						
2	Inequalities and linear programming								
3	Venn diagram- and box plot								
4	Probability of events								
5	Bayes' theorem								
Course Description and Expectations for Students									
<p>This course is divided into three parts. The outlines of the first part are given as follows: 1-Learn how to find the distance between two points in space and how to divide a line segment with a certain ratio 2-Find the equation of a line and a line parallel or perpendicular to a given line.3-Find the equation of a circle in both standard and general form and how to convert a form to another.4-Solve linear and quadratic inequalities analytically and graphically and how to use that in optimization applications. The outlines of part 2 are summarized as follows: 1-Understand the meaning of some statistics terms such as pie chart, bar graph, frequency distribution table, histogram graph 2-Know the meaning of some terms such as mean median, range, standard deviation, percentiles and quartiles 3-Represent the data and summarize the results using Venn diagram, tree diagrams and the box plot. The outlines of the third part are as follows: 1- Understand the definition of some set terms such as union, intersection and probability terms such as sample, population, outcomes, and probability rules. 2-Master the definition of permutation and combination counting principles and difference between them.3- Find the probability of dependent and independent events. 4. Understand the conditional probability and Baye's formulas. It is necessary for students to have the basic knowledge of factorization, simplification of algebraic expressions, coordinates system, solving linear equations, ratios, and rationalization</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Higher Level Mathematics 2012 Edition by Ibrahim Wazir and Tim Garry Reference books: Pre-Calculus: Mathematics for Calculus 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>Students need to master the basic knowledge of math topics learnt at the junior high school such as factorization, expansion and simplification of algebraic expressions and use that in solving linear and quadratic equations. During the class, students should be able to ask and answer questions, participate in the activities collaborate and work in groups.</p>									
No.	Program Objectives	Target Abilities for Students							
①	a,i,g	Find the equation of lines and circles and use that to compare the rate of some processes.							
②	a,d,h,i	Solve inequalities and use that for optimization applications to get the best outcome of any process.							
③	d,g,h,i	Learn about different types of data representation graphs and use it to understand and analyze massive data							
④	d,g,h,i	Calculate the probability of dependent, independent and mutual exclusive events in our daily life.							
⑤	d,h,i	Participate in the group learning and discussion, and complete homework assignments.							
⑥	a,g,h,i	Think out of the box and ask questions to solve and understand difficult problems.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		40	20	0	10	0	0	30	100
Comprehensive Strength Criterion	Ability to capture knowledge	30	10	0	0	0	0	15	55
	Ability to think, reason and create	5	5	0	5	0	0	5	20
	Collaboration and leadership	0	0	0	5	0	0	5	10
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	5	5	0	0	0	0	5	15

※ The numerical breakdown shown by Comprehensive Strength Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
Exams	①	✓	<p>There is a mid-term exams after the 15th class, and it will cover all the topics studied in the first half term.</p> <p>At the end of the term there is a final term exam and it will cover only the topics studied after the mid-term</p> <p>The two exams equate to 40% of the total score.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	<p>There will be a quiz at the beginning of each class about the topic studied in the previous class. Quizzes equates to 20% of the total score</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Report	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	✓	<p>Students are requested to give a presentation before the midterm exam and another one before the final exam.</p> <p>Students will be evaluated on how well they collaborated with each other in the presentation and their presentation skills.</p> <p>Presentations equate to 10% of total score.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
H. Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolio	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①	✓	<p>Every class a worksheet problems will be given to students; they solve as many problems as they can at the class. 10 minutes before the class ends, students receive the answer sheet and they have to find their mistakes and complete answering all problems. The worksheet should be submitted every class by the end of the class day (17:00) as a homework. The grading criteria will be based on content acquisition and quality of work through showing clear steps on how students get the answers. The homework equates 30% of the total score.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
<ul style="list-style-type: none"> -Students understand the proofs of the formulas and how to use them to solve the problems of the worksheets and the textbook. -Know how to figure out some optimization application to get the best outcome of a process using the knowledge of equation of lines and system of inequalities. -Master the different type of graphs, charts and plots which describes data and know how to use Excel to make these graphs. -Differentiate between the dependent, independent and mutual exclusive events. -Apply the probability concepts to study more life-related events. -Ask questions, try new ideas and help other students. 	<ul style="list-style-type: none"> -Students understand the formulas and how to use them to solve the problems of the worksheets. -Know how to find the equation of lines and solve a system of inequalities and apply that to some simple applications. -Understand the different type of graphs, charts and plots which describes data. -Learn how to find the probability of some events. -Understand how to apply the probability concepts to study life-related events. -Acquire help when they find difficulties

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
1 /	Course syllabus introduction and the rules of the class. A game activity "Escape from the Moon"	A lecture to introduce the syllabus and class rules. The game sheet. Analyzing the result	Read the course syllabus.	10
2 /	The distance between two points. The internal and external dividing point of a line segment. The center point of a triangle.	A lecture of the new topic. Solving the worksheet and ask questions for more understanding.	Pre-Cal: Read Section 1.9 Review the materials and answer HW problems.	20 40
3 /	The equation of a line using the slope intercepts form. The equation using the point slope form. The equation using the coordinates of two points.	Review the previous topic. Having quiz#1. Lecture of the topic. Solving the worksheet.	Pre-Cal: Read Section 1.10 Review the materials and answer HW problems.	20 40
4 /	Real-life problems and applications for the equation of lines.	Review the previous topic. Having quiz#2. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 1.10 Review the materials and answer HW problems.	20 40
5 /	The equation of a line parallel or perpendicular to another line.	Review the previous topic Having quiz#3. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 1.10 Review the materials and answer HW problems.	20 40
6 /	The equation of a circle in both standard and general form using the center point and the radius.	Review the previous topic Having quiz#4. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 1.9 Review the materials and answer HW problems.	20 40
7 /	The equation of a circle using the coordinates of three points.	Review the previous topic Having quiz#5. Lecture of the new topic. Solving the worksheet.	Read slides of lecture7. Review the materials and answer HW problems	20 40
8 /	The intersection point of a circle and a line and the equation of a tangent line.	Review the previous topic Having quiz#6. Lecture of the new topic. Solving the worksheet.	Read slides of lecture8. Review the materials and answer HW problems	20 40
9 /	The locus of a point and understand how to find the equation of a locus.	Review the previous topic Having quiz#7. Lecture of the new topic. Solving the worksheet.	Read slides of lecture9. Review the materials and answer HW problems	20 40
10 /	The linear inequalities of a single variable and graphing two variables inequalities.	Review the previous topic Having quiz#8. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 1.8+slides of lecture 10 Review the materials and answer HW problems.	20 40

Course schedule

About the CLIP learning process

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In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
11 /	The quadratic inequalities of a single variable and two variables.	Review the previous topic Having quiz#9.L Lecture of the new topic. Solving the worksheet.	Read slides of lecture11. Review the materials and answer HW problems	20 40
12 /	Solving systems of inequalities graphically to find the solution region.	Review the previous topic Having quiz#10. Lecture of the new topic. Solving the worksheet.	Read slides of lecture12. Review the materials and answer HW problems	20 40
13 /	Linear programming and finding the maximum and minimum values of a function.	Review the previous topic Having quiz#11. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read the last part of Ch.10+slides of lecture 13 Review the materials and answer HW problems	20 40
14 /	Real world problems and applications (Optimization)	Review the previous topic Having quiz#12.A Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read the last part of Ch.10+slides of lecture 14 Review the materials and answer HW problems	20 40
15 /	Summary and review of unclear parts in the previous topics.	Having quiz#13. Review all worksheets and ask any question for any difficult problem.	Review the topics studied in the previous classes Review all the worksheets problems	90 90
16 /	Mid-term exam	A quick review. Have the mid-term exam.	Review all the worksheets problems.	120
17 /	Definition and importance of studying statistics. Definition of some statistical terms.	Return the mid-term test. Lecture of the new topic. Solving the worksheet.	HL-Math: Read section 11.1 Review the materials and answer HW problems	20 40
18 /	The mean, median and mode of some data. Examples of real life data problems.	Review the previous topic Having quiz#14. Lecture of the new topic. Solving the worksheet.	HL-Math: Read section 11.2 Review the materials and answer HW problems	20 40
19 /	The range, variance and the standard deviation Examples of real life data problems.	Review the previous topic Having quiz#15. Lecture of the new topic. Solving the worksheet.	HL-Math: Read section 11.3 Review the materials and answer HW problems	20 40
20 /	The percentiles and quartiles of data. Box plo.t	Review the previous topic Having quiz#16.A lecture for the new topic. Solving the worksheet.	HL-Math: Read section 11.3 Review the materials and answer HW problems	20 40

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
21 /	Set theory. Venn diagrams.	Review the previous topic Having quiz#17. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 1.1 HL-Math: Read Section 12.2	20
			Review the materials and answer HW problems.	40
22 /	Probability terms. Tree and grid diagrams.	Review the previous topic Having quiz#18. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.2 and section 12.3	20
			Review the materials and answer HW problems.	40
23 /	Counting principles Permutations.	Review the previous topic Having quiz#19. Lecture of the new topic. Solving the worksheet.	Read the slides of lecture #22	20
			Review the materials and answer HW problems.	40
24 /	Counting principles Combinations.	Review the previous topic Having quiz#20. Lecture of the new topic. Solving the worksheet.	Read the slides of lecture #23	20
			Review the materials and answer HW problems.	40
25 /	Outcomes of events. Probability rules and mutually exclusive events	Review the previous topic Having quiz#21. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.3 and section 12.3	20
			Review the materials and answer HW problems.	40
26 /	Geometric probability. Probability of events using permutations and combinations	Review the previous topic Having quiz#22. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.3 and section 12.3	20
			Review the materials and answer HW problems.	40
27 /	Definition independent events and conditional probability	Review the previous topic Having quiz#23. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.4 and section 12.3	20
			Review the materials and answer HW problems.	40
28 /	The multiplication rule of conditional probabilities and applications	Review the previous topic Having quiz#24. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.4 and section 12.3	20
			Review the materials and answer HW problems.	40
29 /	Bayes' theorem	Review the previous topic Having quiz#25 Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 12.5 and section 12.3	20
			Review the materials and answer HW problems.	40
30 /	Summary and review of unclear part in the previous topics.	Providing the answers of all worksheets and allow students to review and ask any question for any difficult problem.	Preview the topics studied in the previous classes	90
			Review all the worksheets problems	90

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
31 /	Final exam		Review all materials	90
32 /	Final exam return			

2021 Syllabus

Instructor with "*" means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Fundamental Mathematics B	2	503100	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	KIHARA, Hitoshi HUSSIEN, Alaa	Hakusanroku C:101.201			(Mon, Thu) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Trigonometric ratios-Inverse functions	Students will learn the definition of the trigonometric ratios, sine, cosine and tangent and will be able to find these ratios for common angles (30° , 60° , 90° , 180°) and also the inverse ratios \sin^{-1} , \cos^{-1} and \tan^{-1} . They will be also able to solve any triangle using the law of sine and cosine. Students can solve trigonometric equations and inequalities using different identities. At the end, students can apply their knowledge to solve some real-life problems.							
2	Trigonometric equations								
3	Trigonometric inequalities								
4	The law of sine and cosine								
5	Trigonometric identities								
Course Description and Expectations for Students									
<p>At first, students understand the definition and the importance of trigonometry where this branch of mathematics is completely new for them. As an introduction students will learn the definition of angles and how to express the measure of the angle in both degree and radian. After that, they study the definition of the trig. ratios (sine, cosine and tangent) of angles and the inverse of trig. ratios (\sin^{-1}, \cos^{-1} and \tan^{-1}) and how to calculate these values for some common angles without using calculators. The law of sine and law of cosine will be explained to help student solving any triangle. Before the end of the first half of the term, many applications will be presented to teach student how to apply their knowledge in their life. In the second half of this term, students will learn how to graph the trigonometric function sine cosine and tangent and evaluate their domain and range, amplitude and phase shift. Also they will know how to find the inverse trig. ratios (\sin^{-1}, \cos^{-1} and \tan^{-1}). Solving trigonometric equations and inequalities is one of the important topics so students will learn how to solve them. Many identities including Pythagorean and compound angle identities will be taught to students to be able to find the trig. ratios of uncommon angles and solve difficult equations</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Higher Level Mathematics 2012 Edition by Ibrahim Wazir and Tim Garry Reference books: Pre-Calculus: Mathematics for Calculus 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Students need to master the basic knowledge of math topics learnt at the junior high school such as Pythagorean theorem some circle terminologies. In addition, they need to remember the definition of function domain and range. Also, understanding factorization, expansion and simplification of algebraic expressions are needed for this course. At the class, students should have the motivation to ask and answer questions, participate in the activities collaborate and work in groups									
No.	Program Objectives	Target Abilities for Students							
①	i,g	Calculate the trig. ratios of reference angles ($(30^\circ, 60^\circ, 90^\circ, 180^\circ)$) without using a calculator.							
②	i,d	Understand the inverse of trig ratios(\sin^{-1} , \cos^{-1} and \tan^{-1}) and calculate them without calculators							
③	d,g,i	Use the trig. identities to find the ratios of general angles and solve difficult trig. equations.							
④	d,h,i	Graph the trig. functions sine cosine and tangent and find their domain , range, amplitude and phase shift							
⑤	a,g,h,i	Apply their knowledge to many applications to solve some real life problems.							
⑥	a,d,i	Participate in the group activities, ask questions at the class and complete HW assignments.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		40	20	0	10	0	0	30	100
Comprehensive Strength Criterion	Ability to capture knowledge	30	10	0	0	0	0	15	55
	Ability to think, reason and create	5	5	0	5	0	0	5	20
	Collaboration and leadership	0	0	0	5	0	0	5	10
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	5	5	0	0	0	0	5	15

※ The numerical breakdown shown by Comprehensive Strength Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
Exams	①	✓	There is a mid-term exams after the 15 th class, and it will cover all the topics studied in the first half term. At the end of the term there is a final term exam and it will cover only the topics studied after the mid-term The two exams equate 40% of the total score.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	There will be a quiz at the beginning of each class about the topic studied in the previous class. Quizzes equates 20% of the total score
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Report	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentation	①	✓	Students are requested to give a presentation before the midterm exam and another one before the final exam. Students will be evaluated on how well they collaborated with each other in the presentation and their presentation skills. Presentations equate to 10% of total score.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolio	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①	✓	Every class a worksheet problems will be given to students; they solve as many problems as they can at the class. 10 minutes before the class ends, students receive the answer sheet and they have to find their mistakes and complete answering all problems. The worksheet should be submitted every class by the end of the class day (17:00) as a homework. The grading criteria will be based on content acquisition and quality of work through showing clear steps on how students get the answers. The homework equates 30% of the total score.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
<ul style="list-style-type: none"> -Students understand the importance of trigonometry and variety of applications which use trigonometric theories. -Understand the definition of sin, cos and tan and how to find these ratios for common and some general angles without calculators. Also the same thing for the inverse ratios -Derive the law of sine and cosine and use them to solve different types of triangles. -Differentiate between the trig. identities and determine which one of them can be used to solve a problem. -Think about more life applications other than that given in class. -Solve the worksheet problems and textbook ones. 	<ul style="list-style-type: none"> -Students understand the importance of trigonometry and some applications which use trigonometric theories. -Understand the definition of sin, cos and tan and how to find these ratios for common and some general angles without calculators. Also the same thing for the inverse ratios -Use the law of sine and cosine to solve different types of triangles. -Know the different trig. identities and how to use them to find the ratios of more angles and solve equations -Solve the worksheet problems and ask for help for difficult ones

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
1 /	Test. Course syllabus introduction and rules of the class.	A test of the topics of fundamental math A A lecture to introduce the syllabus and class rules	Read the course syllabus.	10
2 /	Introduction to trigonometry. Definition of angles. Arc length and sector area.	A lecture of the new topic. Solving the worksheet and ask questions for more understanding.	Pre-Cal: Read Section 6.1 Review the materials and answer HW problems.	20 40
3 /	Trigonometry of right triangles(1)	Review the previous topic. Having quiz#1. Lecture of the topic. Solving the worksheet.	Pre-Cal: Read Section 6.2 Review the materials and answer HW problems.	20 40
4 /	Trigonometry of right triangles(2)	Review the previous topic. Having quiz#2. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.2, 6.4 Review the materials and answer HW problems.	20 40
5 /	Trigonometric functions and coordinates(1) Sine-Cosine-Tangent	Review the previous topic Having quiz#3. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.3 Review the materials and answer HW problems.	20 40
6 /	Trigonometric functions and coordinates(2) Sine-Cosine-Tangent	Review the previous topic Having quiz#4. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.3 Review the materials and answer HW problems.	20 40
7 /	Area of triangles using trigonometric ratios.	Review the previous topic Having quiz#5. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.3 Review the materials and answer HW problems.	20 40
8 /	Pythagorean identities (1)	Review the previous topic Having quiz#6. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.3, 7.1 Review the materials and answer HW problems.	20 40
9 /	Pythagorean identities (2)	Review the previous topic Having quiz#7. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.3, 7.1 Review the materials and answer HW problems.	20 40
10 /	The law of sine(1)	Review the previous topic Having quiz#8. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.5 Review the materials and answer HW problems.	20 40

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
11 /	The law of sine(2)	Review the previous topic Having quiz#9. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.5 Review the materials and answer HW problems.	20 40
12 /	The law of cosine(1)	Review the previous topic Having quiz#10. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.6 Review the materials and answer HW problems.	20 40
13 /	The law of cosine(2)	Review the previous topic Having quiz#11. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 6.6 Review the materials and answer HW problems.	20 40
14 /	Applications of triangle trigonometry(1)	Review the previous topic Having quiz#12. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read the last part of Section 6.2, 6.4 Review the materials and answer HW problems.	20 40
15 /	Applications of triangle trigonometry(2)	Review the previous topic Having quiz#13. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read the last part of Section 6.5, 6.6 Review the materials and answer HW problems.	20 40
16 /	Review and self-study. Preparation for the mid-term exam	Having quiz#14 Review all worksheets and ask any question for any difficult problem.	Review the topics studied in the previous classes. Review all the worksheets problems.	90 90
17 /	Mid-term Exam	A quick review. Have the mid-term exam.	Review all the worksheets problems.	120
18 /	General angles. Periodic functions. Trigonometric ratios of general angles.	Return the mid-term test. Lecture of the new topic. Solving the worksheet.	HL-Math: Read Section 7.2 Read the slides of lecture#18 Review the materials and answer HW problems.	20 40
19 /	Graphing of trigonometric functions. Domain, range, period, Amplitude of functions	Review the previous topic Having quiz#15. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 5.3 HL-Math: Read Section 7.3 Review the materials and answer HW problems.	20 40
20 /	Graphing of transformations of trigonometric functions Domain, range, period, Amplitude and phase shift of transformations of the functions	Review the previous topic Having quiz#16. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 5.3 HL-Math: Read Section 7.3 Review the materials and answer HW problems.	20 40

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
21 /	Reciprocals of trigonometric functions. Secant-Cosecant-Cotangent	Review the previous topic Having quiz#17. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 5.4 Review the materials and answer HW problems.	20 40
22 /	Inverse trigonometric functions. Domain-Range.	Review the previous topic Having quiz#18. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 5.4 Review the materials and answer HW problems.	20 40
23 /	Trigonometric equations	Review the previous topic Having quiz#19. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 5.4 Review the materials and answer HW problems.	20 40
24 /	Trigonometric inequalities.	Review the previous topic Having quiz#20. Lecture of the new topic. Solving the worksheet.	Read the slides of lecture#24 Review the materials and answer HW problems.	20 40
25 /	Compound angle identities of sine and cosine functions.	Review the previous topic Having quiz#21. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 7.2 Review the materials and answer HW problems.	20 40
26 /	Compound angle identities of tan function	Review the previous topic Having quiz#22. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read Section 7.3 Review the materials and answer HW problems.	20 40
27 /	Applications of compound angles identities Double angle identities.	Review the previous topic Having quiz#23. Lecture of the new topic. Solving the worksheet.	Pre-Cal: Read the solved examples of sections 7.2,7.3 Review the materials and answer HW problems.	20 40
28 /	Sum of sine and cosine functions.	Review the previous topic Having quiz#24. Lecture of the new topic. Solving the worksheet.	Read the slides of lecture#28 Review the materials and answer HW problems.	20 40
29 /	Summary of the trigonometric identities.	Review the previous topic Having quiz#25. Lecture of the new topic. Solving the worksheet.	Read the slides of lecture#29 Review the materials and answer HW problems.	20 40
30 /	Review and self-study Preparation for the final exam	Providing the answers of all worksheets and allow students to review and ask any question for any difficult problem.	Review the topics studied in the second half term. Review all the worksheets problems.	90 90

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example,

In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
31 /	Final exam		Review all materials	90
32 /	Final exam return			

2021 Syllabus

Instructor with "*" means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Physics IA	1	503500	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	ITO, Meguru BRANDON, Wohlfarth	Hakusanroku C: 101.201			M-F 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Force and gravity	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 force and motion. Students will also learn the basic of mathematical analysis.							
2	Newton's law								
3	Velocity and acceleration								
4	Free fall								
5	Projectile motion								
Course Description and Expectations for Students									
<p>In this course,</p> <ul style="list-style-type: none"> 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. <p>Advices for students:</p> <ul style="list-style-type: none"> Physics IA is a course that forms the base of Physics IB to IIB, Applied Physics I and II. Be sure to understand the content. 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 (exercises/class work/quiz), and reviews. Be sure to work on preparations because understanding during classes will improve greatly. 									
<p>Required Materials (textbooks, reference books, reserved books)</p> <p>Textbooks: "Conceptual Physics The High School Physics Program", Pearson, Paul G Hewitt</p> <p>Reference books:</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>Knowledge of science correspond to junior high school</p> <p>Fundamental skills of calculation</p>									
No.	Program Objectives	Target Abilities for Students							
①	h,i	Students will be able to add and decompose forces in their component vectors.							
②	h,i	Students will be able to understand vector quantities and scalar quantities.							
③	h,i	Students will be able to understand velocity and acceleration.							
④	h,i	Students will be able to solve questions related to motion of objects.							
⑤	d,h,i	Students will be able to understand physical phenomena through experiments.							
⑥	i	Students will be able to participate classes actively and review what you achieved.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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
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 using the Cornell note taking system. 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. Students who finish exercises early, are able to support other students as a student assistant.
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

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

Course schedule

* In the "Time" column of the Assignments, the standard time required for the specific 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 /	Guidance • Understanding class contents Fundamentals of science	Lecture and exercise	Reading given documents Reading textbook, then preview check	45
2 /	1. About Science • Understanding the role and utility of physics	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
3 /	2. Mechanical Equilibrium - Force • Understanding the mechanical equilibrium	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
4 /	2. Mechanical Equilibrium - Force • Understanding the mechanical equilibrium	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
5 /	2. Mechanical Equilibrium - Vector • Understanding the concept of vector	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
6 /	2. Mechanical Equilibrium - Vector • Understanding composition and resolution of forces	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
7 /	3. Newton's first law - inertia • Understanding the mass and law of inertia	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
8 /	3. Newton's first law - inertia • Understanding the mass and law of inertia	Lecture and exercise	Finishing exercise and reviewing class	45
9 /	Experiment 1 • Experience inertia of object through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
10 /	4. Linear motion – velocity and acceleration • Understanding velocity and acceleration	Lecture and exercise	Finishing exercise and reviewing class	45

Course schedule

* In the "Time" column of the Assignments, the standard time required for the specific 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 /	Experiment 2 • Experience free fall of object through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
12 /	5. Projectile motion – Projectile motion • Understanding projectile motion	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
13 /	5. Projectile motion – Projectile motion • Understanding projectile motion	Lecture and exercise	Finishing exercise and reviewing class	45
14 /	Experiment 3 • Experience projectile motion of object through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
15 /	Exercise • Understanding the learned contents	Exercise	Reviewing the contents so far. Checking wrong answer	45
16 /	Final exam			
17 /	Final exam return			

2021 Syllabus

Instructor with "*" means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Physics IB	2	503600	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	ITO, Meguru BRANDON, Wohlfarth	Hakusanroku C: 101.201			M-F 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Newton's law	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 further develop the forces and motions learned in Physics IA and understand the laws that link forces and motions through learning concepts and experiments. In addition, students can understand complicated motions with the concept of mechanical energy.							
2	Momentum and impulse								
3	Work, power and mechanical energy								
4	Circular motion and rotational motion								
5	Universal gravitational force								
Course Description and Expectations for Students									
<p>In this course,</p> <ul style="list-style-type: none"> 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. <p>Advices for students:</p> <ul style="list-style-type: none"> Physics IB is a course that forms the base of Physics IIA and IIB, Applied Physics I and II. Be sure to understand the content. If you have any questions, ask during classes, learning sessions, and/or speak with a teacher during posted office hours. This course consists of preparations (reading textbooks/ preview check), classes (exercises/class work/quiz), and reviews. Be sure to work on preparations because understanding during classes will improve greatly. 									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: "Conceptual Physics The High School Physics Program", Pearson, Paul G Hewitt Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Knowledge of Physics IA Fundamental skills of calculation									
No.	Program Objectives	Target Abilities for Students							
①	h,i	Students will be able to understand Newton's law.							
②	h,i	Students will be able to understand momentum and impulse							
③	h,i	Students will be able to understand mechanical energy.							
④	h,i	Students will be able to understand circular and rotational motion.							
⑤	d,h,i	Students will be able to understand physical phenomena through experiments.							
⑥	i	Students will be able to participate classes actively and review what you achieved.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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
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 a short quiz 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.
	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 using the Cornell note taking system. Students' notebook will be graded based on the content and organization level of the notes.
	②		
	③		
	④		
	⑤		
	⑥	✓	
Others	①		Students is able to give feedback about classes. Students who finish exercises early, are able to support other students as student assistants.
	②		
	③		
	④		
	⑤		
	⑥	✓	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students are able to understand actual phenomena correctly with physical interpretation.	Students are able to understand physical phenomena.
Students are able to calculate to solve questions correctly using formulae.	Students are able to calculate to solve questions using formulae.
Students are able to understand units and their dimensions for each physical value.	Students are able to understand units of physical values.

Course schedule

* In the "Time" column of the Assignments, the standard time required for the specific 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 /	Guidance Reviewing Physics IA	Lecture and exercise	Reading the given documents Reading textbook, then preview check	45
2 /	6. Newton's Second Law – Force and Acceleration • Understanding Newton's second law and solving equation of motion	Lecture and exercise	Confirming the unclear points	15
3 /	6. Newton's Second Law – Force and Acceleration • Understanding Newton's second law and solving equation of motion	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
4 /	6. Newton's Second Law - Friction • Understanding the friction	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
5 /	7. Newton's Third Law – Action and Reaction • Understanding Newton's third law	Lecture and exercise	Confirming the unclear points	15
6 /	7. Newton's Third Law – Action and Reaction • Understanding Newton's third law	Lecture and experiment	Finishing exercise and reviewing the class Reading textbook, then preview check	45
7 /	8. Momentum - Momentum • Understanding the momentum	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
8 /	8. Momentum – Conservation of momentum • Understanding the conservation of momentum	Lecture and exercise	Confirming the unclear points	15
9 /	8. Momentum – Conservation of momentum • Understanding the conservation of momentum	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
10 /	8. Momentum – Elastic collision and Inelastic collision	Lecture and exercise	Confirming the unclear points	15

Course schedule

* In the "Time" column of the Assignments, the standard time required for the specific 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 /	8. Momentum – Elastic collision and Inelastic collision	Lecture and exercise	Reading the given documents Reading textbook, then preview check	45
12 /	Experiment 1 • Experience inelastic collision of object through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
13 /	9. Energy – Work, Power and Mechanical Energy • Understanding work and mechanical energy	Lecture and exercise	Confirming the unclear points	15
14 /	9. Energy – Work, Power and Mechanical Energy • Understanding work and mechanical energy	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
15 /	9. Energy – Conservation of Energy • Understanding the conservation of energy	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
16 /	10. Circular Motion – Circular motion • Understanding circular motion and centripetal and centrifugal forces	Lecture and exercise	Confirming the unclear points	15
17 /	10. Circular Motion – Circular motion • Understanding circular motion and centripetal and centrifugal forces	Lecture and exercise	Finishing exercise and reviewing class	30
18 /	Experiment 2 • Experience circular motion of object through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
19 /	11. Rotational Equilibrium - Torque • Understanding the torque	Lecture and exercise	Confirming the unclear points	15
20 /	11. Rotational Equilibrium - Torque • Understanding the torque	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45

Course schedule

* In the "Time" column of the Assignments, the standard time required for the specific 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.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
21 /	11. Rotational Equilibrium – Center of Gravity • Understanding the center of gravity	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
22 /	12. Rotational Motion – Rotational Inertia • Understanding the rotational inertia	Lecture and exercise	Confirming the unclear points	15
23 /	12. Rotational Motion – Rotational Inertia • Understanding the rotational inertia	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
24 /	12. Rotational Motion – Angular Momentum • Understanding the angular momentum	Lecture and exercise	Confirming the unclear points	15
25 /	12. Rotational Motion – Angular Momentum • Understanding the angular momentum	Lecture and exercise	Finishing exercise and reviewing class	30
26 /	Review	Exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
27 /	13. Universal Gravitation – Newton's Law of Universal Gravitation • Understanding the Newton's law of universal gravitation	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
28 /	14. Satellite motion – Kepler's Law • Understanding the satellite motion	Lecture and exercise	Finishing exercise and reviewing class	30
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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Chemistry IA		1	503900	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	RASHED, Nagwa DE TILLY, Jason		Hakusanroku C: 101.201				Wednesday. 13:00-14:00		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Matter		Learning Chemistry is essential for students of science and technology. Chemistry overlaps with all of the other sciences, chemical methods are used in research by biologists, physicists, environmental scientists and engineers. In this course, students will learn about materials and energy from both the macro and micro viewpoints. By acquiring scientific thinking relating to nature and industry, students will have a better understanding of what is happening in their real world.						
2	physical change								
3	chemical change								
4	measurement								
5	chemical reactions								
Course Description and Expectations for Students (10.5pt)									
Chemistry IA will include lectures, solving worksheets, exercises, group activities, teacher demonstrations, and experiments. For better course achievements, please consider the following:									
<ul style="list-style-type: none"> - Students` safety comes first, so be always aware of your safety by following the Safety in the Chemistry Lab Rules. - Check Manaba & Pearson Realize regularly for updates. - Preview the specified sections in the textbook and other resources before attending class. - Keep taking notes during the class time. - Participate actively in discussions by asking questions and sharing your ideas with teachers and classmates. - Keep all the materials as worksheets, experiment reports, and other assignments in a folder to build up your portfolio. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Pearson Chemistry 2017 edition, Wilbraham, Staley, Matta, Waterman									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> - Analysis and problem-solving - Time management and organization. - Written and oral communication. - Monitoring/maintaining records and data. - Team work and research 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d, h, i	Students will be able to explore the importance and nature of chemistry as a core science.							
②	d, h, i	Students will be able to analyze the nature of matter and its classifications.							
③	d, h, i	Students will be able to explain methods to classify and separate mixtures.							
④	d, h, i	Students will be able to distinguish compounds from elements.							
⑤	d, h, i	Students will be able to observe the effects of motion of particles in chemical and physical process.							
⑥	d, h, i	Students will be able to use chemical formulas to determine chemical composition of compounds							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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	-Final Exam is a cumulative exam for all taught chapters/topics.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	- A test on the lab equipment & safety rules will be held. - Chapter General Tests will be held for each chapter. - A test on the names and symbols of the first 36 elements in the periodic table will be held.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Students are expected to do the following: - Include lesson title, student`s full name and number at the top of each assignment page. - Submit self-checked answers of the assigned textbook and worksheet Qs on time - Turn in any other online assignments on Manaba or Pearson Realize on time. (A 10 % deduction is applied in the case of delay in submitting an assignment per one class delay.)
	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.
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Grading criteria of this section are as follows: 1- Clear and organized class notes that show all the covered topics in class. 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 in all times. 5- Cleanliness of laboratory and hygiene that lead to efficiency in all procedures and class time.
	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. - Students are able to design and perform experiments safely to find solutions or propose an explanation. - Students are able to apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - Students are able to 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. - Students are able to perform experiments safely, make observations, analyze given data and use scientific thinking to draw conclusions - Students are able to apply their problem-solving skills to solve problems whose solutions require multiple steps. - Students are able to 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 /	Laboratory Safety Rules and Signs - Define names and uses of different laboratory equipment	- Lecture - Activity to explore Laboratory Equipment and the safe manners of handling them	- Preview names of Lab Equipment from Manaba - Complete the Table of Lab Equipment Names and Uses	30
2 /	Laboratory Safety Rules and Signs - Demonstrate knowledge of safe laboratory practices.	- Activity to think of the consequences of wrong laboratory and field practices and how these practices could affect society and environment	- Read "Safety in the Chemistry Lab" in Appendix C Book p. R49-50 - Read Safety Contract and sign the agreement.	30
3 /	The Scope of Chemistry - Explain why the scope of chemistry is so vast. - Identify five traditional areas of study in chemistry.	- Lab Equipment & Safety Rules Test - Lecture - Class Activity	- Prepare for Lab Equipment & Safety Rules Test - Answer Lesson 1.1 Book and Workbook related Qs.	30
4 /	Chemistry and You - Identify three general reasons to study chemistry. - Identify some outcomes of modern research in chemistry.	- Lecture - Class activity	- Read and summarize Book p. 9 - Answer Lesson 1.2 Book and Workbook related Qs.	30
5 /	Thinking like a scientist - Identify three steps in the scientific method	- Group activity to make predictions and deal with open-ended questions, or create new questions from observations.	- Search about Alexander Fleming and Antoine-Laurent Lavoisier - Answer Qs 43-49 p.28	30
6 /	Thinking like a scientist - Explain the role collaboration and communication play in science.	- Quick Lab Bubbles p.17 - Group experiments.	- Read Quick Lab "Bubbles" p. 17 - Answer Lesson 1.3 Book and Workbook related Qs.	30
7 /	Problem Solving in Chemistry - Identify the general approach to solving problems. - Describe the steps for solving numeric problems.	- Lecture - Class Activity	- Solve the provided word puzzle - Answer Lesson 1.4 Book and Workbook related Qs.	30
8 /	Problem Solving in Chemistry - Describe the steps for solving nonnumeric problems.	- Practice solved problems. - Exercises	- Review Chapter 1 - Prepare for Chapter 1 General Test.	30
9 /	Properties of Matter - Explain why all samples of matter have the same intensive properties. - Identify the three states of matter. - Classify physical change.	- Chapter 1 General Test - Lecture - See States of Matter animated on "Pearson Realize"	- Read and summarize Lesson 2.1 - Answer Lesson 2.1 Book and Workbook related Qs.	30
10 /	Mixtures - Explain how mixtures can be classified. - Explain how mixtures can be separated.	- Lecture - Separating mixtures experiments.	- Read Quick Lab "Separating mixtures" p.39 - Read "Recycled Mixtures" p.52-53 - Answer Lesson 2.2 Book and Workbook related 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 /	Elements and Compounds - Explain the difference between an element and a compound. -Distinguish between a substance and a mixture.	- Lecture - Group activity	- Read Lesson 2.3 - Start memorizing symbols and names of the first 36 elements in the periodic table	30 30
12 /	Elements and Compounds - Explain how chemists use chemical symbols and chemical formulas.	- Pretest on Elements - Lecture -Group activity	- Memorize symbols and names of the first 36 elements in the periodic table - Answer all Lesson 2.3 Book and Workbook related Qs.	30 30
13 /	Chemical Reactions -Describe what always happens during a chemical change. -Identify the four possible clues that a chemical change has taken place are.	- Test on Elements - Lecture - Teacher Demo to identify chemical changes.	- Read Lesson 2.4 - Answer Lesson 2.4 Book and Workbook Qs.	30 30
14 /	Chemical Reactions - Describe how the mass of the reactants and the mass of products of a chemical reaction are always related.	- Small Scale Lab Experiment "1+2+3=Black" p.51.	- Read Small Scale Lab p.51 - Prepare for Chapter 2 General Test.	30 30
15 /	General Review - Review Chapter 1 & 2.	- Chapter 2 General Test - Group game - Evaluating and reflecting on the progress of own learning. - School Questionnaire	- Prepare for Final Exam - Finalize Portfolio	30 30
16 /	Final Exam	- Evaluating the progress of own learning.		
17 /	Self-study	- Return graded exams and portfolios - Evaluating and reflecting on the progress of own learning.		

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept.S General Required		Chemistry IB		2	504000	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	RASHED, Fekri Nagwa / GATRI, Dorsaf		Hakusanroku C 201.01				Friday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Atomic structure			Learning Chemistry is essential for students of science and technology. In this course, students will develop their understanding of materials and energy from the micro viewpoint, understand the atomic structure as a unit constituting a substance, and understand the mechanism of chemical bonding and interaction. It will be possible for them to understand the characteristics of compounds present in various societies.					
2	Periodic table								
3	Ionic bonding								
4	Metallic bonding								
5	Covalent bonding.								
Course Description and Expectations for Students (10.5pt)									
<p>Chemistry IB will include lectures, solving worksheets, exercises, group activities, teacher demonstrations, and experiments. For better achievements of the course, please consider the following:</p> <ul style="list-style-type: none"> - Students safety comes first, so be always aware of your safety by following the Safety in the Chemistry Lab Rules. - Check Manaba & Pearson Realize regularly for updates. - Preview the specified sections in the textbook and other resources before attending class. - Keep taking notes during the class time. - Participate actively in discussions by asking questions and sharing your ideas with teachers and classmates. - Keep all the materials as worksheets, experiment reports, and other assignments in a folder to build up your portfolio. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Pearson Chemistry 2017 edition, Wilbraham, Staley, Matta, Waterman									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> - Analysis and problem-solving, - Time management and organization. - Written and oral communication. - Monitoring/maintaining records and data. - Team work and research. 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d, h, i	Students will be able to access and find information displayed in the periodic table of elements.							
②	d, h, i	Students will be able to classify elements in the periodic table based on their electron configurations.							
③	d, h, i	Students will be able to relate the electron configuration and valence electrons with ion formation.							
④	d, h, i	Students will be able to connect ions formation to ionic bonds and ionic compounds.							
⑤	d, h, i	Students will be able to explore the nature of covalent bonding and relate it to the octet rule.							
⑥	d, h, i	Students will be able to name some chemical compounds and write their formulas.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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	- Final Exam is a cumulative exam for all taught chapters/topics.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	- Chapter General Tests will be held for each chapter. - A test on the names and symbols of the first 36 elements in the periodic table will be held. - A lab practical on the flame test experiment will be held.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Students are expected to do the following: - Include lesson title, student's full name and number at the top of each assignment page. - Submit self-checked answers of the assigned textbook and worksheet Qs on time - Turn in any other online assignment on Manaba or Pearson Realize on time. - A 10 % deduction is applied in the case of delay in submitting an assignment per one class delay.
	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.
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Grading criteria of this section are as follows: 1- Clear and organized class notes that show all the covered topics in class. 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 in all times. 5- Cleanliness of laboratory and hygiene that lead to efficiency in all procedures and class time.
	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. - Students are able to design and perform experiments safely to find solutions or propose an explanation. - Students are able to apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - Students are able to 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. - Students are able to perform experiments safely, make observations, analyze given data and use scientific thinking to draw conclusions - Students are able to apply their problem-solving skills to solve problems whose solutions require multiple steps. - Students are able to 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 /	Using and Expressing Measurements - Write numbers in scientific notations - Evaluate accuracy and precision	- Lecture - Practice solved problems - Exercises	- Read (Watch What You measure) p.73 - Read Book p. 67 and solve related problems.	30 30
2 /	Using and Expressing Measurements - Explain why measurements must be reported to the correct number of significant figures.	- Lecture - Quick Lab Experiment	- Read Quick Lab "Accuracy and precision" p. 72 - Answer Lesson 3.1 Book and Workbook related Qs.	30 30
3 /	Units of Measurement - Explain why metric units are easy to use - Identify the units of temperature scientists usually use. - Calculate the density of a substance.	- Lecture - Virtual experiments to deduce and describe the density of different materials.	Read "Carbon Footprints" p. 83 Answer all Lesson 3.2 Book and Workbook related Qs.	30 30
4 /	Solving Conversion problems - Explain what happens when a measurement is multiplied by a conversion factor. - Describe what kinds of problems that can be easily solved using dimensional analysis.	- Lecture - Practice solved problems - Exercises	- What is a conversion factor? - Answer Lesson 3.2 Book and Workbook related Qs.	30 30
5 /	Solving Conversion problems - Explain what happens when a measurement is multiplied by a conversion factor. - Describe what kinds of problems that can be easily solved using dimensional analysis.	- Lecture - Small-Scale Lab	- Read Small-Scale Lab p. 92 - Prepare for Chapter 3 General Test.	30 30
6 /	Defining the Atom - Explain how Democritus and John Dalton described atoms. - Identify instruments used to observe individual atoms.	- Chapter 3 General Test. - Lecture - Group activity	- What are devices used to see individual atoms in Japan? - Answer Lesson 4.1 Book and Workbook related Qs.	30 30
7 /	Structure of the nuclear atom - Identify three types of subatomic particles. - Describe the structure of atoms according to Rutherford model.	- Lecture - Quick Lab to describe what is in a closed box using inference and relate that to Rutherford's experiment.	- Do Pearson Realize "Cathode-ray tubes" assignment online. - Read Electron Microscopy p.110-111	30 30
8 /	Structure of the nuclear atom - Identify three types of subatomic particles. - Describe the structure of atoms according to Rutherford model.	- Lecture - Group presentations to trace the history of atomic models.	- Do Pearson Realize "Rutherford's gold foil experiment" assignment online. - Answer Lesson 4.2 Book and Workbook related Qs.	30 30
9 /	Distinguishing Among Atoms - Explain what makes one element different from another. - Explain how isotopes of an element differ.	- Lecture - Practice solved problems - Exercises	- Review the names, symbols, and atomic number of the first 36 elements. - What are the most abundant isotopes of the first 36 elements?	30 30
10 /	Distinguishing Among Atoms - Calculate the atomic mass of an element.	- Test on Elements - Lecture - Practice solved problems - Exercises	- Reread and summarize Lesson 4.3 - Answer Lesson 4.3 Book and Workbook related Qs.	30 30

Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Atomic Mass - Explain the meaning of atomic mass and the atomic mass unit.	-Small-Scale Lab - Group Activity	- Read Small-Scale lab p.120 - Prepare for Chapter 4 General Test	30 30
12 /	Revising the atomic Models - Describe what Bohr proposed in his model of the atom.	- Chapter 4 General Test - Lecture - Group Activity	- Search about Niels Bohr and Erwin Schrodinger - See Pearson Realize" Atomic orbitals" online	30 30
13 /	Revising the atomic Models - Describe what the quantum mechanical model determines about the electron configurations of elements. - Explain how sublevels of principle energy levels differ.	- Lecture - Group Activity	- Read Development of Atomic Models p. 133 - Answer Lesson 5.1 Book and Workbook related Qs	30 30
14 /	Electron arrangement in Atoms - List and apply three rules for writing the electron configurations of elements.	- Lecture - Exercises	- What is the difference between energy levels, sublevels and atomic orbitals? - Complete the electron configuration of the first 36 elements.	30 30
15 /	Electron arrangement in Atoms - List and apply three rules for writing the electron configurations of elements.	- Lecture - Exercises	- Summarize Lesson 5.2 - Answer Lesson 5.2 Book and Workbook related Qs.	30 30
16 /	Atomic Emission Spectra - Explain what causes atomic emission spectra.	- Lecture - Flame test experiment	- Read Quick Lab p. 142 - Prepare for Chapter 5 General Test	30 30
17 /	Lab Practical - Demonstrate lab procedure and safety rules awareness.	- Chapter 5 General Test - Lab Practical Test	- Review flame colors of different metals. -Read Light Emitting Diodes p. 146	30 30
18 /	Organizing Elements - Describe how Mendeleev organized his periodic table. -Describe how the modern periodic table is organized. -Identify three broad classes of elements.	- Lecture - Group activity - Exercises	- Search about J. W. Dobereiner and Dmitri Mendeleev. - Answer Lesson 6.1 Book and Workbook related Qs.	30 30
19 /	Classifying the Elements - List the types of information that can be displayed in the periodic table.	- Lecture - Group activity	- See Pearson Realize Periodic Table online. - Summarize Lesson 6.2	30 30
20 /	Classifying the Elements -Classify elements based on electron configuration.	- Lecture - Group activity - Exercises	- Review electron configuration in groups. - Answer Lesson 6.2 Book and Workbook related Qs.	30 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 /	Periodic Trends - Describe trends among elements for atomic size. - Explain how ions form.	- Lecture - Teacher Demo - Exercises	- Read Elements of Life p. 183 - Summarize Lesson 6.3	30 30
22 /	Periodic Trends - Describe periodic trends for first ionization energy, ionic size, and electronegativity.	- Lecture - Exercises - Group Activity	- Answer Lesson 6.3 Book and Workbook related Qs. - Prepare for Chapter 6 General Test.	30 30
23 /	Ions - Determine the number of valence electrons in an atom of a representative element. - Describe how cations and anions form. - Write electron configuration for various transition metals and their ion	- Chapter 6 General Test. - Lecture - Small Scale Lab: Electron Configuration of ions	- Read Small-Scale Lab p. 200 - Answer Lesson 7.1 Book and Workbook related Qs.	30 30
24 /	Ionic bonds and ionic compounds - Explain the electrical charge for an ionic compound. - Describe the properties of ionic compounds.	- Lecture - Experiments	- Read Ionic Crystals p. 208 and Quick Lab p.207 - Answer Lesson 7.2 Book and Workbook related Qs	30 30
25 /	Bonding in metals - Model the valence electrons of metal atoms. - Describe the arrangement of atoms of a metal. - Explain the importance of alloys.	- Lecture - See Pearson Realize Metals vs Ionic Compounds online.	- Review properties of metals - Answer Lesson 7.3 Book and Workbook related Qs. - Prepare for Chapter 7 General Test	30 30
26 /	Molecular Compounds - Identify the information a molecular formula provides. - Describe the representative units that define molecular compounds and ionic compounds	- Chapter 7 General Test - Lecture - Teacher Demo	- Read Lesson 8.1 - Answer Lesson 8.1 Book and Workbook related Qs.	30 30
27 /	The Nature of Covalent Bonding - Explain the result of electron sharing in covalent bonds. - Describe how coordinate covalent bond are different from other covalent bonds. - Identify some exception to the octet rule.	- Lecture - Quick Lab - Exercises - Online	- Read Quick Lab p. 238 - Answer Lesson 8.2 Book and Workbook related Qs.	30 30
28 /	Bonding Theories - Describe the relationship between atomic and molecular orbitals. - Describe how VSEPR theory helps predict the shape of molecules. - Explain orbital hybridization in molecules	- Lecture - Class activity to make molecular models.	- Read Lesson 8.3 - Answer Lesson 8.3 Book and Workbook related Qs.	30 30
29 /	Polar Bonds and Molecules - Describe how the electronegativity values determine the charge distribution in a polar molecule. - Evaluate the strength of intermolecular attractions	- Lecture - Teacher Demo	- Read Lesson 8.4 - Answer Lesson 8.4 Book and Workbook related Qs. - Prepare for Chapter 8 General Test	30 30
30 /	General Review - Review Chapter 3, 4, 5, 6, 7 and 8	- Chapter 8 General Test - Evaluating and reflecting on the progress of own learning. - School Questionnaire	- Prepare for the Final Exam - Finalize the Portfolio	

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)
31 /	Final Exam	- Evaluating the progress of own learning.		
32 /	Self-study	- Return graded exams and portfolios - Evaluating and reflecting on the progress of own learning.		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Biology IA	1	504300	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	DE TILLY, Jason STEVENSON, Ian	Hakusanroku C: 101.201			Monday to Friday: 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Cell	Students will be able to understand the basic functions of the different types of cells, observe and use a microscope properly, be able to understand the basic structure and functions of basic carbohydrates and lipids, be able to understand the basic structure and function of amino acids and basic proteins, be able to understand the different transportation methods across the cells membrane and be able to understand the mechanisms of cell division.							
2	Organelle								
3	Carbohydrate								
4	Lipid								
5	Protein								
Course Description and Expectations for Students									
<p>This lecture is a study credit subject, so one credit should have 45 50 minutes lessons, and require 30 “self-study” times 15 50 minutes classes. In order to achieve the objectives of the course, classes will usually be divided into three main parts: a short review of the previous at the beginning of the class, an interactive lecture about the lesson’s topic and finally, some class time to complete the lesson’s worksheet, which can be done in teams. PowerPoint presentations will accompany each class and will be available before each class. Homework will consist of completing each class’ worksheet and handing it in by the following class.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
<p>Textbooks: Biology Concepts and Investigation 4th edition, Hoefnagels Reference books: Campbell Biology 11th Edition, Lisa A.Urry[et al]</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students							
①	h, i	Students will be able to understand the basic functions of the different types of cells.							
②	h, i	Students will be able to observe and use a microscope properly.							
③	h, i	Students will be able to understand the basic structure and functions of basic carbohydrates and lipids.							
④	h, i	Students will be able to understand the basic structure and function of basic proteins.							
⑤	h, i	Students will be able to understand the different transportation methods across the cells membrane.							
⑥	h, i	Students will be able to understand the mechanisms of cell division.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	30	0	20	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	12	12	0	2	0	7	0	33
	Ability to think, reason and create	12	12	0	2	0	7	0	33
	Collaboration and leadership	0	0	0	7	0	3	0	10
	Announcement / Expression / Communication	0	0	0	7	0	0	0	7
	Attitude and motivation for learning	6	6	0	2	0	3	0	17

※ 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	The final examination will be a paper examination covering the subject matter seen in the second half of the semester after the midterm test.	
	②		
	③		
	④		✓
	⑤		✓
	⑥		✓
Quizzes	①	The midterm test will be a paper test covering the subject matter seen in the first half of the semester.	
	②		✓
	③		✓
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	There will be a presentation at the end of the semester before the final examination. It will be done in teams on a topic chosen by the students. However, the topic must be related to the subject matter seen during the course of the semester.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	There will be a worksheet to complete every class on the subject matter taught in that class. This can be completed in class or as homework by the following class. This will count for 10% of the total grade. Students will have a 10% penalty for every late business day the student failed to hand in the worksheet. Students' notebooks will also be evaluated by the biology teacher for content and for organization. This will count for 10% of the total grade. Late notebooks will not be evaluated and thus will have a grade of 0% for that week.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will be able to understand the different levels of organization of life and how they interact with each other on different levels. Students will show an understanding of the cell, its different organelles and the different processes it uses to sustain itself and reproduce. Students will draw connections between the different concepts of organic chemistry and how they related to cells and life. Students will demonstrate the ability to use a microscope properly.	Students will be able to understand the different levels of organization of life. Students will show an understanding of the basic structure and function of the cell, its different organelles and its different processes it uses to sustain itself and reproduce. Students will demonstrate the ability to use a microscope properly.

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 /	Students will receive information on the novel coronavirus pandemic.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
2 /	Students will describe the scientific method, the basic history of life on earth, the properties of life and the different levels of organization of life.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
3 /	Students will describe the different types of ecosystems on earth and how the different organisms interact with each other in those ecosystems.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
4 /	Students will describe the different cell organelles and their functions found in prokaryotic cells, animal cells and plant cells.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
5 /	Students will describe the basic structure and functions of the main carbohydrates found in living organisms (monosaccharides, disaccharides and polysaccharides).	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
6 /	Students will describe the basic structure and functions of the main lipids found in living organisms (triglycerides and phospholipids).	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
7 /	Students will describe the basic structure and functions of proteins found in living organisms and the amino acids that compose them.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
8 /	Students will play a game to review the subject matter before the test.	Active Learning	Prepare for the midterm test.	30
9 /	Students will take a test on the subject matter taught until the lipids lesson. After the test, students will use a microscope to observe and draw their observations of different cells.	Midterm Test, Lecture & Active Learning	Reading and taking notes on the next class' content.	30
10 /	The Students will get their midterm test back with some feedback. Students will describe and differentiate between the different methods of transportation used in the cell membrane.	Lecture & Active Learning	Reading and taking notes on the next class' content.	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Students will describe the process of cell division in prokaryotic cells and mitosis and its different stages in eukaryotic cells.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
12 /	Students will describe the process of meiosis and its different stages in eukaryotic cells.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
13 /	Students will play a game to review the subject matter before the test.	Active Learning	Reading and taking notes on the next class' content.	30
14 /	Students will research and prepare for their presentation.	Research & Active Learning	Prepare for next class' presentation.	30
15 /	Students will present a topic in teams related to what they have learned in class this semester.	Active Learning & Active Listening	Prepare for the final examination.	30
16 /	Final Exam	Final examination	N/A	N/A
17 /	Final Exam Return	Receive corrected final examination	N/A	N/A

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Biology IB	1	504400	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	GATRI, Dorsaf / STEVENSON, Ian	Hakusanroku C 101.201			Monday to Friday: 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Gene	Students will be able to understand the basic principles of genetics and heredity, be able to understand the roles and functions of DNA and RNA, be able to understand the basic mechanisms of protein synthesis, be able to learn about the basic anatomy of plants, be able to understand the basic physiology of plants and be able to understand the role of plants in ecosystems.							
2	DNA								
3	RNA								
4	Protein								
5	Plant								
Course Description and Expectations for Students									
<p>This lecture is a study credit subject, so one credit should have 45 50 minutes lessons, and require 30 “self-study” times 15 50 minutes classes. In order to achieve the objectives of the course, classes will usually be divided into three main parts: a short review of the previous at the beginning of the class, an interactive lecture about the lesson’s topic and finally, some class time to complete the lesson’s worksheet, which can be done in teams. PowerPoint presentations will accompany each class and will be available before each class. Homework will consist of completing each class’ worksheet and handing it in by the following class.</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Biology Concepts and Investigation 4th edition, Hoefnagels Reference books: Biology 11th Edition, Campbell</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students							
①	h, i	Students will be able to understand the basic principles of genetics and heredity.							
②	h, i	Students will be able to understand the role and functions of DNA and RNA.							
③	h, i	Students will be able to understand the basic mechanisms of protein synthesis.							
④	h, i	Students will be able to learn about the basic anatomy of plants.							
⑤	h, i	Students will be able to understand the basic physiology of plants.							
⑥	h, i	Students will be able to understand the role of plants in ecosystems.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	30	0	20	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	12	12	0	2	0	7	0	33
	Ability to think, reason and create	12	12	0	2	0	7	0	33
	Collaboration and leadership	0	0	0	7	0	3	0	10
	Announcement / Expression / Communication	0	0	0	7	0	0	0	7
	Attitude and motivation for learning	6	6	0	2	0	3	0	17

※ 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	The final examination will be a paper examination covering the subject matter seen in the second half of the semester after the midterm test.	
	②		
	③		
	④		✓
	⑤		✓
	⑥		✓
Quizzes	①	The midterm test will be a paper test covering the subject matter seen in the first half of the semester.	
	②		✓
	③		✓
	④		
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	There will be a presentation at the end of the semester before the final examination. It will be done in teams on a topic chosen by the students. However, the topic must be related to the subject matter seen during the course of the semester.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	There will be a worksheet to complete every class on the subject matter taught in that class. This can be completed in class or as homework by the following class. This will count for 10% of the total grade. Students will have a 10% penalty for every late business day the student failed to hand in the worksheet. Students' notebooks will also be evaluated by the biology teacher for content and for organization. This will count for 10% of the total grade. Late notebooks will not be evaluated and thus will have a grade of 0% for that week.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will be able to understand the basic principles of heredity and genes. Students will learn the basic mechanics of protein synthesis and the structure and roles of DNA and RNA. Students will draw connections between their knowledge of DNA and RNA and the different existing biotechnologies used in the field of gene manipulation. Students will question themselves on the ethics of such practices. Students will learn the basic anatomy of plants and understand the basic principles of plant physiology and how plants impact ecosystems. Students will draw connections between their knowledge of DNA and RNA and the different existing biotechnologies used in the field of agriculture. Students will question themselves on and ethics of such practices.	Students will be able to understand the basic principles of heredity and genes. Students will learn the basic mechanics of protein synthesis and the structure and roles of DNA and RNA. Students will draw connections between their knowledge of DNA and RNA and the different existing biotechnologies used in the field of gene manipulation. Students will learn the basic anatomy of plants and understand the basic principles of plant physiology and how plants impact ecosystems. Students will draw connections between their knowledge of DNA and RNA and the different existing biotechnologies used in the field of agriculture.

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 /	Students will describe the achievements of Gregor Mendel and the impacts of his work to the field of genetics.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
2 /	Students will solve dihybrid and trihybrid genetic problems involving different genes.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
3 /	Students will describe the mechanisms of different general genetic disorders and specific sex-linked genetic disorders.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
4 /	Students will describe the structure and functions of DNA, chromosomes and RNA.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
5 /	Students will describe the mechanisms and different steps of protein synthesis.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
6 /	Students will describe different types of biotechnologies used in the field of gene manipulation.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
7 /	Students will have time to review and then take a test on the subject matter taught to this point.	Review, Midterm Test & Active Learning	Prepare for the midterm test.	30
8 /	The Students will get their midterm test back with some feedback. After, students will describe basic plant structure and functions.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
9 /	Students will describe the transportation mechanisms in vascular plants.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
10 /	Students will describe the different types of soil and the different needs of plants in terms of nutrition.	Lecture & Active Learning	Reading and taking notes on the next class' content.	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Students will describe the mechanisms link to reproduction in flowering plants.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
12 /	Students will describe the various responses plants observe in response to different stimuli.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
13 /	Students will describe different types of biotechnologies used in the field of agriculture.	Lecture & Active Learning online	Reading and taking notes on the next class' content.	30
14 /	Students will prepare their presentation for the following week.	Group work & Active Learning	Prepare for next class' presentation.	30
15 /	Students will present a topic in teams related to what they have learned in class this semester.	Active Learning & Active Listening	Prepare for the final examination.	30
16 /	Final Exam.	Final examination	N/A	N/A
17 /	Final Exam Return	Receive corrected final examination	N/A	N/A

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing IA (Reading Strategy)		1	504700	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TSUDA, Akihiro		Hakusanroku C:101. 201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			In the reading class, students will be able to form a basic core of reading skills, learn to apply these skills in an extensive reading environment, and improve vocabulary, comprehension, and speed. In the writing class, students will be able to exercise 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 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 【Basic】 4000 語レベル 聞いて覚えるコーパス英単語, (アルク社) 「10 分間英語速読トレーニング Level 1」 (桐原書店) Reserved books: Basic Reading Power 1 / Reading Power 2									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	40% : (Reading) Each quiz will be given after each reading skill. (Writing) A graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session The results will be returned in class in the following week.
	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. (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	Lecture Exercise	Read the syllabus Study vocabulary	20
2 /	Scanning	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
3 /	Scanning Quiz	Lecture Exercise	Speed Reading L3-4 Review reading skills	30
4 /	Preview / Predict	Lecture Exercise	Speed Reading L5-6 Review reading skills	30
5 /	Preview / Predict Quiz	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
6 /	Learning about Context	Lecture Exercise	Speed Reading L9-10 Review reading skills	30
7 /	Learning about Context Quiz	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
8 /	Focusing on the Topic	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
9 /	Focusing on the Topic Quiz	Lecture Exercise	Speed Reading L15-16 Review reading skills	30
10 /	Understanding Paragraphs	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 /	Understanding Paragraphs Quiz	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
12 /	Main idea	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
13 /	Main idea Quiz	Lecture Exercise	Speed Reading L23-24 Review reading skills	30
14 /	Thinking in English	Lecture Exercise	Review reading skills	30
15 /	Thinking in English	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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing IA (Focus on Writing)		1	504700	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BAIRD, Pauline		Hakusanroku C:101. 201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			In the reading class, students will be able to form a basic core of reading skills, learn to apply these skills in an extensive reading environment, and improve vocabulary, comprehension, and speed. In the writing class, students will be able to exercise 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)									
<p>This course is divided into 2 sections: Reading Strategy and Writing. This section focuses on Writing Strategies.</p> <p>Workshops and exercises You need to keep all our writing assignments /reports in a folder.</p>									
<p>Required Materials: (textbooks, reference books, reserved books) (10.5pt) Textbooks: None (Handouts) Reference books: <i>Ready to Write 1: Essential Online Resources</i> by <u>K. Blanchard</u> and <u>C. Root</u>, Pearson, 2016. Reserved books:</p>									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	40% : (Reading) Each quiz will be given after each reading skill. (Writing) A graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session The results will be returned in class in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	(Reading) Complete the handouts and submit in time. (Writing) Complete workshop assignments and exercises. These include grammar, sentences, drafting, proofreading, and editing. All assignments are due at the end of the class. Incomplete assignments must be turned in to a Learning Mentor by 9:30 PM. Graded assignments will be returned the following week in 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 Grammar for Writing: Capitalization in context.	Mini - Lecture Practice 1- 4	Read the syllabus Review classwork	20
2 /	Module 1: Introducing People: Identify key features of the introduction paragraph. Write a simple topic sentence, supporting sentences, and a concluding sentence. Using models write to introduce yourself or someone.	Writing with a Model Exercise	Revise and complete draft. Turn in at Learning Session.	30
3 /	Paragraph Pointers: Practice 1- 5: Verbs, Direct object, Fragment, Subject/Verb agreement, word order	Mini lecture Workshop Exercise	Paragraphs Pointers: Practice 6-11: Verbs: number, word order, tense, negation, BE. Turn in at Learning Session.	30
4 /	<i>continued</i> ~ Introducing People Practice 1 & 2 (<i>Chapter 2</i>) Editing and Rubric	Workshop & Conferencing	Review classwork; complete unfinished work. Turn in at Learning Session.	30
5 /	Module 2: Real-Life Writing Features of an informal email. Drafting using a model.	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
6 /	Grammar for Writing: Subject & Object Pronouns, possessive adjective, adjectives. Practice 1-4; Coordinating, subordinating punctuating sentences Practice 9-10	Mini lecture Workshop Exercise	Grammar for Writing: Practice exercises 5-8 & 11-12	30
7 /	Paragraph Pointers: Titles, headings, indent, student information Practice 12 (Chapter 1)	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
8 /	Using Editing and Rubrics Grammar for Writing: Practice # 1 and 2	Conferencing & Workshop	Complete Grammar for Writing: Practice 1 and 2	30
9 /	Module 3: Writing About Daily Activities Features of the paragraph. Drafting using a model.	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
10 /	Grammar for Writing Simple present affirmative & negative, spelling verbs, 3 rd person singular, punctuation. Practice Exercises: #1-6	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	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 /	Paragraph Pointers: Controlling ideas, topic sentences, conclusion sentences; # 1-4	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
12 /	Writing about daily activities Editing and Rubric	Workshop & Conferencing	Review classwork; complete unfinished work. Turn in at Learning Session.	30
13 /	Module 4: Writing Instructions Features of an "How To" give instructions paragraph. Drafting using a model.	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
14 /	Grammar for Writing: Plurals, quantifiers, articles, imperatives (negative and positive) Practice #1-8	Mini lecture Workshop Exercise Practice #1-8	Review classwork; complete unfinished work. Turn in at Learning Session.	30
15 /	Paragraph Pointers Practice #1 & 2 Rubric and Conferencing	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
16 /	Final Exam	Review and evaluate your progress and understanding	Review classwork; complete unfinished work. Turn in at Learning Session.	30
17 /	Final Exam Return			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing I B (Reading Strategy)		1	504800	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TSUDA, Akihiro		Hakusanroku C:101. 201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			In the reading class, students will be able to form a basic core of reading skills, learn to apply these skills in an extensive reading environment, and improve vocabulary, comprehension, and speed. In the writing class, students will be able to exercise 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 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 Basic 4000 , (アルク社) 「10分間英語速読トレーニング Level 2」 (桐原書店) Reserved books: Basic Reading Power 1 / Reading Power 2									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	40% : (Reading) Each quiz will be given after each reading skill. (Writing) A graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session The results will be returned in class in the following week.
	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. (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	Lecture Exercise	Read the syllabus Study vocabulary	20
2 /	Read Fast	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
3 /	Read Fast Quiz	Lecture Exercise	Speed Reading L3-4 Review reading skills	30
4 /	Identifying the Pattern	Lecture Exercise	Speed Reading L5-6 Review reading skills	30
5 /	Identifying the Pattern	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
6 /	Identifying the Pattern	Lecture Exercise	Speed Reading L9-10 Review reading skills	30
7 /	Identifying the Pattern Quiz	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
8 /	Guessing Meaning from Context	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
9 /	Guessing Meaning from Context Quiz	Lecture Exercise	Speed Reading L15-16 Review reading skills	30
10 /	Making Inference	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 /	Making Inference	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
12 /	Making Inference Quiz	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
13 /	Summarizing	Lecture Exercise	Speed Reading L23-24 Review reading skills	30
14 /	Summarizing	Lecture Exercise	Review reading skills	30
15 /	Summarizing Quiz	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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing IB (Focus on Writing)		1	504800	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BAIRD, Pauline		Hakusanroku C:101. 201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			In the reading class, students will be able to form a basic core of reading skills, learn to apply these skills in an extensive reading environment, and improve vocabulary, comprehension, and speed. In the writing class, students will be able to exercise 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 is divided into 2 sections: Reading Strategy and Writing. This section focuses on Writing Strategies. Workshops and exercises You need to keep all our writing assignments /reports in a folder.									
Required Materials: (textbooks, reference books, reserved books) (10.5pt) Textbooks: None (Handouts) Reference books: <i>Ready to Write 1: Essential Online Resources</i> by <u>K. Blanchard</u> and <u>C. Root</u> , Pearson, 2016. 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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	Final exam (academic English proficiency test) includes TOEIC, EIKEN, and IELTS style questions.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	40% : (Reading) Each quiz will be given after each reading skill. (Writing) A graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session The results will be returned in class in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	(Reading) Complete the handouts and submit in time. (Writing) Complete workshop assignments and exercises. These include grammar, sentences, drafting, proofreading, and editing. All assignments are due at the end of the class. In complete assignments must be turned it to a Learning Mentor by 9:30 PM. Graded assignments will be returned the following week in 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 /	Module 1: Real-Life Writing Identify key features of writing a letter or postcard to the teacher about your holidays. Write addresses, headings, messages, closing, and signature etc. Use models to write.	Mini - Lecture Practice #1- 4 (Ch 5)	Read the syllabus Review classwork	20
2 /	Grammar for Writing: Capitalization in context. Prepositions, Adverbs of frequency, Complex sentences, and punctuation.	Writing with a Model Exercise #1-6	Revise and complete draft. Turn in at Learning Session.	30
3 /	Paragraph Pointers: Practice #1- 2: Paragraph unity (Cohesion)	Mini lecture Workshop Exercise	Revise and complete draft. Turn in at Learning Session.	30
4 /	<i>continued</i> ~Letter or postcard Editing and Rubric Check	Workshop & Conferencing	Review classwork; complete unfinished work. Turn in at Learning Session.	30
5 /	Module 2: Describing a Place Features of a descriptive paragraph. Drafting using a model.	Mini lecture Workshop Exercise (Ch 7)	Review classwork; complete unfinished work. Turn in at Learning Session.	30
6 /	Paragraph Pointers: Spatial order, topic sentences Practice #1-2	Mini lecture Workshop Exercise	Grammar for Writing: Practice exercises #1-3	30
7 /	Grammar for Writing: Adjective, preposition, there is/are, spelling; Practice #1-3.	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
8 /	Using Editing and Rubric Check Grammar for Writing: Practice #4-6	Conferencing & Workshop	Complete Grammar for Writing: Practice #4-6	30
9 /	Module 3: Describing the Past Features of the paragraph. Drafting using a model.	Mini lecture Workshop Exercise (Ch 8)	Review classwork; complete unfinished work. Turn in at Learning Session.	30
10 /	Grammar for Writing Past time expressions, regular and irregular verbs. Practice Exercises: #1-4	Mini lecture Workshop Exercise #1-4	Review classwork; complete unfinished work. Turn in at Learning Session.	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 /	Drafting and Conferencing Editing and Rubric Check Practice # 5-10	Mini lecture Workshop Exercise #5-10	Review classwork; complete unfinished work. Turn in at Learning Session.	30
12 /	Expressing Opinion (Edpuzzle)- sentence starters. Listing Order Practice #1-3	Workshop & Conferencing	Review classwork; complete unfinished work. Turn in at Learning Session.	30
13 /	Module 4: Expression an Opinion Features of an offering an opinion. Drafting using a model.	Mini lecture Workshop Exercise	Review classwork; complete unfinished work. Turn in at Learning Session.	30
14 /	Paragraph Pointers Listing Order Practice #4-6	Mini lecture Workshop Exercise Practice #5-8	Review classwork; complete unfinished work. Turn in at Learning Session.	30
15 /	Revision and Rubric Listing Order Practice #7-8	Mini lecture Workshop Exercise (Ch 9)	Review classwork; complete unfinished work. Turn in at Learning Session.	30
16 /	Final Exam	Review and evaluate your progress and understanding	Review classwork; complete unfinished work. Turn in at Learning Session.	30
17 /	Final Exam Return			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing IB- (Advanced)		1	504800	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	REYNOLDS, Stephanie		Hakusanroku C. 101. 201				Friday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			Building on the skills learned in English Reading and Writing IA- Advanced, students will continue to develop basic core of reading skills and textual analysis, learn to apply these skills to a variety of texts, expand vocabulary, and improve comprehension and speed. In the writing class, students will be able to apply literacy skills to organize ideas for academic writing. Students will write paragraphs and essays in different genres in English.					
2	Writing								
3	Vocabulary								
4	Grammar								
5	Textual Analysis								
Course Description and Expectations for Students (10.5pt)									
<p>This course is divided into 2 sections: Reading Strategy and Writing.</p> <p>Workshops and exercises You need to keep all our writing assignments /reports in a folder. Turn in all assignments for grading in manaba before the next class. Avoid turning in work late because it hinders the success of the next class.</p>									
Required Materials: (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: None (Handouts) 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 feedback and constructive criticism. Demonstrate willingness to revise, edit, and rewrite drafts of an assignment.									
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 form and use opinion and comparison forms and structures in essays.							
⑥	i	(W) Students will be able to practice writing by studying samples using models or templates.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	Final exam includes reading and vocabulary questions similar to other standardized tests.
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	✓	40% : (Reading & Writing) 6 quizzes will be given after each skill is introduced 10% : Vocabulary homework (Quizlet) 10% : Reading log homework (manaba) The results will be returned in class in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	6% 6 Grammar exercises will be graded on completion with feedback given in the following lesson. 24% Students will write 2 different genres of essays, which will be graded according to the following criteria: Writing Process, Task Achievement, Cohesion, Coherence. Students will write at least 1000 words on each assignment in class or for homework in stages. Students will submit assignments on manaba, 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 improve their grammar drastically, go through the writing process, respond appropriately to feedback, and produce paragraphs of various genres having main ideas that are logically structure, well-argued, and supported.	Students improve their grammar to some extent, go through the writing process, respond to some feedback, and produce paragraphs of various genres having main ideas that are for the most part logically structured, and supported.

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: Students will research and identify the context and background of literary text 1. Writing: Students will review the features of paragraphs.	Exercises Free writing on an assigned topic.	Read the syllabus Complete assignment and turn in on manaba before the next class.	30
2 /	Reading: Students will compare and analyze the context and background of literary text 1. Writing: Students will consider the features of an effective opinion essay. <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
3 /	Reading: Students will learn about the elements of text structure found in literary text 1. Writing: Students will learn about the features of effective thesis statements. Quiz <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
4 /	Reading: Students will understand the purpose and use of text structure in literary text 1. Writing: Students will write thesis statements. <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
5 /	Reading: Students will identify and understand elements of figurative language in literary text 1. Writing: Students will brainstorm their own opinion essay ideas and write an outline. Quiz <i>Return graded assignment on manaba</i>	Brainstorm and outline	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
6 /	Reading: Students will apply and practice understanding of figurative language in text 1. Writing: Students will write the first draft of their own opinion essay. <i>Return graded assignment on manaba</i>	Write first draft	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
7 /	Reading: Students will analyze context, text structure, and figurative language in text 1. Writing: Students will discuss and revise their own opinion essay. Quiz <i>Return graded assignment on manaba</i>	Discuss and revise essay	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
8 /	Reading: Students will research and identify the context and background of literary text 2. Writing: Students will consider the features of an effective comparison essay. <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
9 /	Reading: Students will compare and analyze the context and background of literary text 2. Writing: Students will learn about the features and structure of expressions to compare and contrast. <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
10 /	Reading: Students will learn about the elements of text structure found in literary text 2. Writing: Students will write examples of compare and contrast expressions. Quiz <i>Return graded assignment on manaba</i>	Exercises Discuss and write with a model.	Revise / complete unfinished assignments. Turn in on manaba before the next 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: Students will understand the purpose and use of text structure in literary text 2. Writing: Students will brainstorm their own comparison essay ideas and write an outline. <i>Return graded assignment on manaba</i>	Brainstorm and outline	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
12 /	Reading: Students will identify and understand elements of figurative language in literary text 2 Writing: Students will write the first draft of their own comparison essay Quiz <i>Return graded assignment on manaba</i>	Write first draft	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
13 /	Reading: Students will apply and practice understanding of figurative language in text 2. Writing: Students will discuss and revise their own comparison essay <i>Return graded assignment on manaba</i>	Discuss and revise essay	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
14 /	Reading: Students will analyze context, text structure, and figurative language in text 2. Writing: Students will review and discuss opinion and comparison essays. Quiz	Conferencing about opinion and comparison essays	Revise / complete unfinished assignments. Turn in on manaba before the next class.	30
15 /	Review: Students will review what was learnt in this course, reflect on their performance, and consider the next semester. <i>Return graded assignment on manaba</i>	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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Listening and Speaking IA		2	505100	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	STEVENSON, Ian		Hakusanroku C:101.201				M-F 16:30-15:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Listening		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.						
2	Speaking								
3	Study Skills								
4	Communication								
5									
Course Description and Expectations for Students (10.5pt)									
Students will develop the oral communication abilities needed to learn effectively in their classes taught in academic English, as well as to be able to function socially in an English-speaking environment. Upon completion of this class, 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 study skills/techniques such as note taking, research, listening, and asking questions in class. Also, students will improve their understanding of topics and vocabulary used in their classes. This course will be taught through the first 7 chapters of a textbook and 2 workshops.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Perspectives 2 (Intermediate): National Geographic Learning</i> by (Eds). Lewis Lansford, Daniel Barber, Amanda Jeffers (<i>National Geographic Learning</i>) 2018.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic/Beginner English ability.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b, h	Students will be able to use greet and introduce themselves and talk about emotions.							
②	c, d, e	Students will be able to discuss and give opinions about hobbies, sports, and travel.							
③	a, d, g	Students will be able to discuss and describe food, photos, work, shopping and the human body.							
④	a, g, h	Students will be able to set goals, make agree and disagree statements, and ask questions.							
⑤	b, e	Students will be able to discuss past events and ask/make recommendations.							
⑥	g, i	Students will be able to discuss time, explain cause, and give reasons.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	35	35	30	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	10	0	0	0	40
	Ability to think, reason and create	0	5	5	10	0	0	0	20
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	5	10	5	0	0	0	20
	Attitude and motivation for learning	0	5	5	0	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	<p>Each of the 7 chapters will have quiz for students to do upon completion of the chapter. Quizzes will be graded and returned by the following class.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	<p>Students will complete listening exercises for different purposes such as listening for specific information and listening for comprehension and speaking exercises for different purposes related to the program objectives such as making voice recordings and speaking in pairs on a specific subject. Reports will be graded and returned at the end of each chapter.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	<p>Students will complete 2 workshops and will make a presentation discussing or using the skills from the workshop. Presentations will be graded and returned within 1 week of the workshop.</p>
	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 /	Orientation: Syllabus, voicethread, class design and textbook usage. Chapter 1: In touch with your feelings (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
2 /	Chapter 1: In touch with your feelings (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
3 /	Chapter 1: In touch with your feelings (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
4 /	Chapter 1: In touch with your feelings (part 4) Quiz: Chapter 1 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
5 /	Chapter 2: Enjoy the ride (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
6 /	Chapter 2: Enjoy the ride (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
7 /	Chapter 2: Enjoy the ride (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
8 /	Chapter 2: Enjoy the ride (part 4) Quiz: Chapter 2 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
9 /	Chapter 3: Active lives (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
10 /	Chapter 3: Active lives (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 3: Active lives (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
12 /	Chapter 3: Active lives (part 4) Quiz: Chapter 3 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
13 /	Workshop 1: Presentation Skills: Eye contact, appropriate volume, and posture.	Stations, online modules, lecture, and active learning.		30
14 /	Chapter 4: Food (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
15 /	Chapter 4: Food (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
16 /	Chapter 4: Food (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
17 /	Chapter 4: Food (part 4) Quiz: Chapter 4 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
18 /	Chapter 5: Work (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
19 /	Chapter 5 Work (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
20 /	Chapter 5: Work (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 5 Work (part 4) Quiz: Chapter 5 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
22 /	Chapter 6: Superhuman (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
23 /	Chapter 6: Superhuman (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
24 /	Chapter 6: Superhuman (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
25 /	Chapter 6: Superhuman (part 4) Quiz: Chapter 6 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
26 /	Chapter 7: Shopping around (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
27 /	Chapter 7: Shopping around (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
28 /	Chapter 7: Shopping around (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
29 /	Chapter 7: Shopping around (part 4) Quiz: Chapter 7 <i>Return graded report</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
30 /	Workshop 2: Presentation skills: Pronunciation of difficult phonemes, intonation, and appropriate pausing.	Stations, online modules, lecture, and active learning.		30

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	English Listening and Speaking I A (Advanced)	2	505100	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	BASQUILL, Edward	Hakusanroku C 101.201			M-F 16:30-15:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Listening	This course emphasizes the use of basic English language for oral presentation. Its main purpose is for the students to be able to exercise literacy skills including, speaking and listening and notetaking for learning in their academic classes. Students will also be able to effectively deliver presentations to others using English.							
2	Speaking								
3	Study Skills								
4	Communication								
5									
Course Description and Expectations for Students (10.5pt)									
Students will develop the oral abilities needed to deliver presentations effectively in their classes taught in academic English, as well as to be able to adjust their presentations depending on the social environment. Upon completion of this class, students will be able to identify the needed elements for making a well-rounded presentation, identify and use the skills required to present to and interact with a crowd, and analyze their speaking and presentation skills in order to improve them. The course will be delivered through following 7 textbook chapters and presenting on their themes as well as 2 workshops.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Perspectives 2 (Intermediate): National Geographic Learning</i> by (Eds). Lewis Lansford, Daniel Barber, Amanda Jeffers (<i>National Geographic Learning</i>) 2018.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
intermediate/High English ability.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b, h	Students will be able to identify what a presentation is and the elements of an effective presentation.							
②	c, d, e	Students will be able to use effective presenting skills to gain and keep their audience's attention.							
③	a, d, g	Students will be able to use effective presenting skills to reduce and cloak nervousness.							
④	a, g, h	Students will be able to identify and plan necessary pre-presentation steps.							
⑤	b, e	Students will be able to analyze their presentations in order to identify issues to be improved.							
⑥	g, i	Students will be able to create workshops showing their understanding of the other target abilities..							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	35	35	30	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	10	0	0	0	40
	Ability to think, reason and create	0	5	5	10	0	0	0	20
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	5	10	5	0	0	0	20
	Attitude and motivation for learning	0	5	5	0	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	<p>Each of the 7 chapters will have quiz for students to do upon completion of the chapter. Quizzes will be graded and returned by the following class.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	<p>Students will complete listening exercises for different purposes such as listening for specific information and listening for comprehension and speaking exercises for different purposes related to the program objectives such as making voice recordings and speaking in pairs on a specific subject. Reports will be graded and returned at the end of each chapter.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	<p>Students will complete 2 workshops and will make a presentation discussing or using the skills from the workshop. Presentations will be graded and returned within 1 week of the workshop.</p>
	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 /	Orientation: Syllabus, voicethread, class design and textbook usage. Chapter 1: In touch with your feelings (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
2 /	Chapter 1: In touch with your feelings (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
3 /	Chapter 1: In touch with your feelings (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
4 /	Chapter 1: In touch with your feelings (part 4) Quiz: Chapter 1	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
5 /	Chapter 2: Enjoy the ride (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
6 /	Chapter 2: Enjoy the ride (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
7 /	Chapter 2: Enjoy the ride (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
8 /	Chapter 2: Enjoy the ride (part 4) Quiz: Chapter 2	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
9 /	Chapter 3: Active lives (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
10 /	Chapter 3: Active lives (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 3: Active lives (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
12 /	Chapter 3: Active lives (part 4) Quiz: Chapter 3	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
13 /	Workshop 1: Presentation Skills: Eye contact, appropriate volume, and posture.	Stations, online modules, lecture, and active learning.		30
14 /	Chapter 4: Food (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
15 /	Chapter 4: Food (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
16 /	Chapter 4: Food (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
17 /	Chapter 4: Food (part 4) Quiz: Chapter 4	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
18 /	Chapter 5: Work (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
19 /	Chapter 5 Work (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
20 /	Chapter 5: Work (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 5 Work (part 4) Quiz: Chapter 5	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
22 /	Chapter 6: Superhuman (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
23 /	Chapter 6: Superhuman (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
24 /	Chapter 6: Superhuman (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
25 /	Chapter 6: Superhuman (part 4) Quiz: Chapter 6	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
26 /	Chapter 7: Shopping around (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
27 /	Chapter 7: Shopping around (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
28 /	Chapter 7: Shopping around (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
29 /	Chapter 7: Shopping around (part 4) Quiz: Chapter 7	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
30 /	Workshop 2: Presentation skills: Pronunciation of difficult phonemes, intonation, and appropriate pausing.	Stations, online modules, lecture, and active learning.		30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Listening and Speaking I B		1	505200	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BASQUILL, Edward		Hakusanroku C:101.201				M-F 16:30-15:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Listening		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.						
2	Speaking								
3	Study Skills								
4	Communication								
5									
Course Description and Expectations for Students (10.5pt)									
Students will develop the oral communication abilities needed to learn effectively in their classes taught in academic English, as well as to be able to function socially in an English-speaking environment. Upon completion of this class, 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 study skills/techniques such as note taking, research, listening, and asking questions in class. Also, students will improve their understanding of topics and vocabulary used in their classes. This course will be taught through the last 3 chapters of a textbook and 2 workshops.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Perspectives 2 (Intermediate): National Geographic Learning</i> by (Eds). Lewis Lansford, Daniel Barber, Amanda Jeffers (<i>National Geographic Learning</i>) 2018.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic/Beginner English ability. Basic notetaking ability and an understanding of Google Drive and Voicethread.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b, h	Students will be able to use greet and introduce themselves and talk about emotions.							
②	c, d, e	Students will be able to discuss and give opinions about hobbies, sports, and travel.							
③	a, d, g	Students will be able to discuss and describe food, photos, work, shopping and the human body.							
④	a, g, h	Students will be able to set goals, make agree and disagree statements, and ask questions.							
⑤	b, e	Students will be able to discuss past events and ask/make recommendations.							
⑥	g, i	Students will be able to discuss time, explain cause, and give reasons.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	35	35	30	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	10	0	0	0	40
	Ability to think, reason and create	0	5	5	10	0	0	0	20
	Collaboration and leadership	0	0	5	5	0	0	0	10
	Announcement / Expression / Communication	0	5	10	5	0	0	0	20
	Attitude and motivation for learning	0	5	5	0	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	<p>Each of the chapters will have quiz for students to do upon completion of the chapter. Quizzes will be graded and returned by the following class.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	<p>Students will complete listening exercises for different purposes such as listening for specific information and listening for comprehension and speaking exercises for different purposes related to the program objectives such as making voice recordings and speaking in pairs on a specific subject. Reports will be graded and returned at the end of each chapter.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	<p>Students will complete 2 workshops and will make a presentation discussing or using the skills from the workshop. There will also be a final presentation at the end of the semester. Presentations will be graded and returned within 1 week of the workshop.</p>
	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 /	Chapter 8: In touch with your feelings (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
2 /	Chapter 8: In touch with your feelings (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
3 /	Chapter 8: In touch with your feelings (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
4 /	Chapter 8: In touch with your feelings (part 4) Quiz: Chapter 8 <i>Reports graded and returned</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
5 /	Chapter 9: Enjoy the ride (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
6 /	Chapter 9: Enjoy the ride (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
7 /	Chapter 9: Enjoy the ride (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
8 /	Chapter 9: Enjoy the ride (part 4) Quiz: Chapter 9 <i>Reports graded and returned</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
9 /	Workshop 1: Presentation Skills: Speaking from memory, using cards/ppt for reminders, and how to correct a mistake	Stations, online modules, lecture, and active learning.		30
10 /	Chapter 10: Active lives (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 10: Food (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
12 /	Chapter 10: Food (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
13 /	Chapter 10: Food (part 4) Quiz: Chapter 10 <i>Reports graded and returned</i>	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
14 /	Workshop 2: Presentation Skills: Difficult phonemes, expressions, and audience interaction	Stations, online modules, lecture, and active learning.		30
15 /	Final Presentation	Stations, online modules, lecture, and active learning.		30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Listening & Speaking I B		1	505200	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TAYLOR, James		HakusanrokuC 101.201				Monday 16:30-15:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Listening			This course emphasises the use of basic English language for oral presentation. Its main purpose is for the students to be able to exercise literacy skills including, speaking and listening and notetaking for learning in their academic classes. Students will also be able to effectively deliver presentations to others using English.					
2	Speaking								
3	Study Skills								
4	Communication								
5	Presentation Skills								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to work and to speak English. Do not be afraid to ask the teacher for help if you need it. Missing deadlines will disrupt your progress and prevent you from achieving a high grade, so complete tasks when they are assigned and submit them on time. Respect others' ideas and opinions. Students will develop the oral abilities needed to deliver presentations effectively in their classes taught in academic English, as well as to be able to adjust their presentations depending on the social environment. Upon completion of this class, students will be able to identify the needed elements for making a well-rounded presentation, identify and use the skills required to present to and interact with a crowd, and analyse their speaking and presentation skills in order to improve them. The course will be delivered through following 3 textbook chapters and presenting on their themes as well as 2 workshops.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Perspectives 2 (Intermediate): National Geographic Learning</i> by (Eds). Lewis Lansford, Daniel Barber, Amanda Jeffers (<i>National Geographic Learning</i>) 2018.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Intermediate/high English ability.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b, h	Students will be able to identify what a presentation is and the elements of an effective presentation.							
②	c, d, e	Students will be able to use effective presenting skills to gain and keep their audience's attention.							
③	a, d, g	Students will be able to use effective presenting skills to reduce and cloak nervousness.							
④	a, g, h	Students will be able to identify and plan necessary pre-presentation steps.							
⑤	b, e	Students will be able to analyse their presentations in order to identify issues to be improved.							
⑥	g, i	Students will be able to create workshops showing their understanding of the other target abilities..							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	100	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	30	0	0	0	30
	Ability to think, reason and create	0	0	0	30	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	25	0	0	0	25
	Attitude and motivation for learning	0	0	0	15	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	<p>Students will give 3 presentations (one at the end of each unit). Presentations will be graded and returned by the following class.</p> <p>Students will participate in 2 workshops on specific presentation skills with graded activities. Activities will be graded and returned by the following class.</p>
	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 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 work 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 /	Introduction. Chapter 8: (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
2 /	Chapter 8: (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
3 /	Chapter 8: (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
4 /	Chapter 8: (part 4) Presentation	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
5 /	Targeted presentation skills workshop 1	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
6 /	Chapter 9: (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
7 /	Chapter 9: (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
8 /	Chapter 9: (part 3)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
9 /	Chapter 9: (part 4) Presentation	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
10 /	Targeted presentation skills workshop 2	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	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 /	Chapter 10: (part 1)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
12 /	Chapter 10: (part 2)	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
13 /	Chapter 10: (part 3)	Stations, online modules, lecture, and active learning.		30
14 /	Chapter 10: (part 4) Presentation	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30
15 /	Review	Stations, online modules, lecture, and active learning.	Listening and speaking practice based on class needs/chapter targets.	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Bridge English (Physics)		2	505500	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TSUDA, Akihiro		Hakusanroku C:101. 201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	STEM			This course emphasizes the fundamental English language to support all the STEM courses conducted in English in the 1st and 2nd year. The main purpose of it is for students to be able to succeed in the content courses as they learn how to address and approach the challenges such as scientific terminology, expressions, or concepts in English.					
2	Engineering								
3	Study Skills								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>The main purpose is to provide the academic support in STEM classes. As all the STEM courses are taught in English, which may cause you to face many challenges and even decrease motivation, the fundamentals gained in this course allow you to build up confidence and academic skills. Additionally, we advise you to use these skills outside of the classroom. This course is divided into 4 sections; Chemistry, Physics, Biology, and Study Skills.</p> <p>(Physics) Lecture, exercise, pair-work, presentation, You need to submit all the handouts after a quiz.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: None (Handouts) Reference books: None Reserved books: None									
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.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Students will be able to improve their vocabulary in order to succeed in their STEM classes.							
②	h	Students will be able to use scientific language and expressions needed in their STEM classes.							
③	h, d	Students will be able to develop problem solving skills in order to take responsibility for their own learning.							
④	i	Students will be able to develop a broader mindset from the content they study in their classes.							
⑤	i	Students will be able to increase their knowledge about the content they study.							
⑥	i	Students will be able to understand each grammatical point.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	60	40	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	40	20	0	0	0	0	60
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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	
	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	
	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 develop their interest in learning new things based on their preference and their ability to apply the knowledge and skills learned to improve their performance in STEM classes.	Students address their weaknesses in STEM classes and lay a necessary foundation for success in STEM.

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 Engineering Airplane	Lecture Interactive activity Project based	Read the syllabus Study vocabulary	20
2 /	Engineering Airplane ①	Lecture Interactive activity Project based	Finish the review sheet	30
3 /	Shape ①	Lecture Interactive activity	Review the content Complete the assignment	30
4 /	Shape ①	Lecture Interactive activity	Review the content Complete the assignment	30
5 /	Shape ②	Lecture Interactive activity	Review the content Complete the assignment	30
6 /	Shape ②	Lecture Interactive activity	Review the content Complete the assignment	30
7 /	Force ①	Lecture Interactive activity	Review the content Complete the assignment	30
8 /	Force ①	Lecture Interactive activity	Review the content Complete the assignment	30
9 /	Catch-up / Quiz 1	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
10 /	Force ②	Lecture Interactive activity	Review the content Complete the assignment	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 /	Force ②	Lecture Interactive activity	Review the content Complete the assignment	30
12 /	Inertia ①	Lecture Interactive activity	Review the content Complete the assignment	30
13 /	Inertia ①	Lecture Interactive activity	Review the content Complete the assignment	30
14 /	Inertia ②	Lecture Interactive activity	Review the content Complete the assignment	30
15 /	Inertia ②	Lecture Interactive activity	Review the content Complete the assignment	30
16 /	Catch-up / Quiz 2	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
17 /	Movement/Actions ①	Lecture Interactive activity	Review the content Complete the assignment	30
18 /	Movement/Actions ①	Lecture Interactive activity	Review the content Complete the assignment	30
19 /	Movement/Actions ②	Lecture Interactive activity	Review the content Complete the assignment	30
20 /	Movement/Actions ②	Lecture Interactive activity	Review the content Complete the assignment	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 /	Heat ①	Lecture Interactive activity	Review the content Complete the assignment	30
22 /	Heat ①	Lecture Interactive activity	Review the content Complete the assignment	30
23 /	Catch-up / Quiz 3	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
24 /	Heat ②	Lecture Interactive activity	Review the content Complete the assignment	30
25 /	Heat ②	Lecture Interactive activity	Review the content Complete the assignment	30
26 /	Describing an experiment ①	Lecture Interactive activity	Review the content Complete the assignment	30
27 /	Describing an experiment ①	Lecture Interactive activity	Review the content Complete the assignment	30
28 /	Describing an experiment ②	Lecture Interactive activity	Review the content Complete the assignment	30
29 /	Describing an experiment ②	Lecture Interactive activity	Review the content Complete the assignment	30
30 /	Catch-up / Quiz 4	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Bridge English (Math)		2	505500	First	Lecture		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	BASQUILL, Edward		Hakusanroku C:101.201				M-F 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	STEM			This course emphasizes the fundamental English language to support all the STEM courses conducted in English in the 1st and 2nd year. The main purpose of it is for students to be able to succeed in the content courses as they learn how to address and approach the challenges such as scientific terminology, expressions, or concepts in English.					
2	Engineering								
3	Study Skills								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>The main purpose is to provide the academic support in STEM classes. As all the STEM courses are taught in English, which may cause you to face many challenges and even decrease motivation, the fundamentals gained in this course allow you to build up confidence and academic skills. Additionally, we advise you to use these skills outside of the classroom. This course is divided into 4 sections: Chemistry, Physics, Biology, and Math.</p> <p>(Math) Lecture, exercise, pair-work, presentation, You need to submit all reports are due in class and/or on Manaba.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: None (Handouts) Reference books: <i>Higher Level Mathematics</i> by P. Ashbourne, P. Barclay, P. Flynn, K. Frederick, and M. Wakeford. Pearson. 2012 Reserved books: None</p>									
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.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Students will be able to improve their vocabulary in order to succeed in their STEM classes.							
②	h	Students will be able to use scientific language and expressions needed in their STEM classes.							
③	h, d	Students will be able to develop problem solving skills in order to take responsibility for their own learning.							
④	i	Students will be able to develop a broader mindset from the content they study in their classes.							
⑤	i	Students will be able to increase their knowledge about the content they study.							
⑥	i	Students will be able to understand each grammatical point.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	60	40	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	40	20	0	0	0	0	60
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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	
	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	
	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 develop their interest in learning new things based on their preference and their ability to apply the knowledge and skills learned to improve their performance in STEM classes.	Students address their weaknesses in STEM classes and lay a necessary foundation for success in STEM.

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 Engineering Airplane	Lecture Interactive activity Project based	Read the syllabus. Study vocabulary	20
2 /	Engineering Airplane ①	Lecture Interactive activity Project based	Finish the review sheet	30
3 /	Numbers, fractions, decimals ① Exploring etymology of math vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; complete assignments	30
4 /	Numbers, fractions, decimals ② Exploring etymology of math vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; complete assignments	30
5 /	Graphs ① Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; complete assignments	30
6 /	Graphs ② Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; complete assignments	30
7 /	Reading formulas. ① Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; complete assignments	30
8 /	Reading formulas. ② Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review for Quiz 1	30
9 /	Catch-up / Quiz 1	Review and reflect	Review the vocabulary they learn; complete assignments	30
10 /	Functions ① Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review the vocabulary they learn; 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 /	Functions ② Exploring etymology of the vocabulary.	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
12 /	Equations and Inequalities. ① Exploring vocabulary and etymology.	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
13 /	Equations and Inequalities. ② Exploring vocabulary and etymology.	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
14 /	Instructions and Problems – Exploring grammar, vocabulary, syntax. ①	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
15 /	Instructions and Problems– Exploring grammar, vocabulary, syntax. ②	Lecture, pair-work, and practice	Quiz 2 review	30
16 /	Catch-up / Quiz 2	Review and evaluate. your progress and understanding	Review the vocabulary; complete assignments	30
17 /	Lectures about formulas Practicing Oral/ Written Expression. ①	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
18 /	Lectures about formulas Practicing Oral/ Written Expression. ②	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
19 /	Lectures about functions Practicing Oral/ Written Expression. ①	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
20 /	Lectures about functions Practicing Oral/ Written Expression. ②	Lecture, pair-work, and practice	Review the vocabulary; 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)
21 /	Sentence problems about probabilities/applications. ① Exploring vocabulary and comprehension	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
22 /	Sentence problems about probabilities/applications. ② Exploring vocabulary and comprehension	Lecture, pair-work, and practice	Quiz 3 review module	30
23 /	Catch-up / Quiz 3	Review and evaluate. your progress and understanding	Study for a quiz / review the contents	30
24 /	Practice making a lecture about numbers, fractions, and/or decimals. ①	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
25 /	Practice making a lecture about numbers, fractions, and/or decimals. ②	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
26 /	Practice making a lecture about graphs. ①	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
27 /	Practice making a lecture about graphs. ②	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
28 /	Review Vocabulary	Lecture, pair-work, and practice	Review the vocabulary; complete assignments	30
29 /	Review Vocabulary	Lecture, pair-work, and practice	Quiz 4 review	30
30 /	Catch-up / Quiz 4	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Bridge English (Biology)		2	505500	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	STEVENSON, Ian		Hakusanroku C:101.201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	STEM			This course emphasizes the fundamental English language to support all the STEM courses conducted in English in the 1st and 2nd year. The main purpose of it is for students to be able to succeed in the content courses as they learn how to address and approach the challenges such as scientific terminology, expressions, or concepts in English.					
2	Engineering								
3	Study Skills								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>The main purpose is to provide the academic support in STEM classes. As all the STEM courses are taught in English, which may cause you to face many challenges and even decrease motivation, the fundamentals gained in this course allow you to build up confidence and academic skills. Additionally, we advise you to use these skills outside of the classroom. This course is divided into 4 sections; Chemistry, Physics, Biology, and Study Skills.</p> <p>(Biology) Lecture, exercise, pair-work, presentation, You need to submit all the handouts after a quiz.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: None (Handouts) Reference books: None Reserved books: None									
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.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Students will be able to improve their vocabulary in order to succeed in their STEM classes.							
②	h	Students will be able to use scientific language and expressions needed in their STEM classes.							
③	h, d	Students will be able to develop problem solving skills in order to take responsibility for their own learning.							
④	i	Students will be able to develop a broader mindset from the content they study in their classes.							
⑤	i	Students will be able to increase their knowledge about the content they study.							
⑥	i	Students will be able to understand each grammatical point.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	60	40	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	40	20	0	0	0	0	60
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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	
	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	
	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 develop their interest in learning new things based on their preference and their ability to apply the knowledge and skills learned to improve their performance in STEM classes.	Students address their weaknesses in STEM classes and lay a necessary foundation for success in STEM.

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 Engineering Airplane	Lecture Interactive activity Project based	Read the syllabus Study vocabulary	20
2 /	Engineering Airplane ①	Lecture Interactive activity Project based	Finish the review sheet	30
3 /	Meaning from context ①	Station Work Lecture Interactive activity Group work	Read selected passages from textbook and other sources. Review key points via video.	30
4 /	Meaning from context ①	Station Work Lecture Interactive activity Group work	Read selected passages from textbook and other sources. Review key points via video.	30
5 /	Meaning from context ②	Station Work Lecture Interactive activity Group work	Read selected passages from textbook and other sources. Review key points via video.	30
6 /	Meaning from context ②	Station Work Lecture Interactive activity Collaborative PBL	Read selected passages from textbook and other sources. Review key points via video.	30
7 /	Meaning from context ③	Station Work Lecture Interactive activity Collaborative PBL	Read selected passages from textbook and other sources. Review key points via video.	30
8 /	Meaning from context ③	Station Work Lecture Interactive activity Collaborative PBL	Read selected passages from textbook and other sources. Review key points via video.	30
9 /	Catch-up / Quiz 1	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
10 /	Scientific Method/Process ①	Station Work Lecture Interactive activity Collaborative PBL	Perform, document and present a simple biology experiment	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 /	Scientific Method/Process ①	Station Work Lecture Interactive activity Collaborative PBL	Perform, document and present a simple biology experiment	30
12 /	Scientific Method/Process ②	Station Work Lecture Interactive activity Collaborative PBL	Perform, document and present a simple biology experiment	30
13 /	Scientific Method/Process ②	Station Work Lecture Interactive activity Group work	Perform, document and present a simple biology experiment	30
14 /	Scientific Method/Process ③	Station Work Lecture Interactive activity Group work	Perform, document and present a simple biology experiment	30
15 /	Scientific Method/Process ③	Station Work Lecture Interactive activity Group work	Perform, document and present a simple biology experiment	30
16 /	Catch-up / Quiz 2	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
17 /	Scientific Reporting ①	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	30
18 /	Scientific Reporting ①	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	30
19 /	Scientific Reporting ②	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	30
20 /	Scientific Reporting ②	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	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 /	Scientific Reporting ③	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	30
22 /	Scientific Reporting ③	Station Work Lecture Interactive activity Group work	Perform and report the results of a simple biology experiment	30
23 /	Catch-up / Quiz 3	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
24 /	Scientific Presentation ①	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
25 /	Scientific Presentation ①	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
26 /	Scientific Presentation ②	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
27 /	Scientific Presentation ②	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
28 /	Scientific Presentation ③	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
29 /	Scientific Presentation ③	Station Work Lecture Interactive activity Group work	Design, research, practice and give a presentation on a topic from biology class	30
30 /	Catch-up / Quiz 4	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Bridge English (Chemistry)		2	505500	First	Lecture Class		
Target Grade	Instructor		Office	Email Address			Office Hours		
1	BAIRD, Pauline		Hakusanroku C 101. 201				Thursday 16:30 - 17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	STEM			This course emphasizes the fundamental English language to support all the STEM courses conducted in English in the 1st and 2nd year. The main purpose of it is for students to be able to succeed in the content courses as they learn how to address and approach the challenges such as scientific terminology, expressions, or concepts in English.					
2	Engineering								
3	Study Skills								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>The main purpose is to provide the academic support in STEM classes. As all the STEM courses are taught in English, which may cause you to face many challenges and even decrease motivation, the fundamentals gained in this course allow you to build up confidence and academic skills. Additionally, we advise you to use these skills outside of the classroom. This course is divided into 4 sections: Chemistry, Physics, Biology, and Math Skills.</p> <p>(Chemistry) Lecture, exercises, and pair-work. You need to submit reports after each topic.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbook: <i>Pearson Chemistry</i> by A. Wilbraham, D. Staley, M. Matta, & E. Waterman. N.Y: New York. 2017. (Handouts) Reference books: None Reserved books: None</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>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.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Students will be able to improve their vocabulary in order to succeed in their STEM classes.							
②	h	Students will be able to use scientific language and expressions needed in their STEM classes.							
③	h, d	Students will be able to develop problem solving skills in order to take responsibility for their own learning.							
④	i	Students will be able to develop a broader mindset from the content they study in their classes.							
⑤	i	Students will be able to increase their knowledge about the content they study.							
⑥	i	Students will be able to understand each grammatical point.							
Evaluation Criteria									
Evaluation Method Criteria and Ratio		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	60	40	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	40	20	0	0	0	0	60
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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	
	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	
	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 develop their interest in learning new things based on their preference and their ability to apply the knowledge and skills learned to improve their performance in STEM classes.	Students address their weaknesses in STEM classes and lay a necessary foundation for success in STEM.

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 Engineering Airplane	Lecture Interactive activity Project based	Read the syllabus Study vocabulary	20
2 /	Engineering Airplane ①	Lecture Interactive activity Project based	Review the content Finish the review report	30
3 /	Thinking Like a Scientist	Lecture Interactive activity	Review the content Finish the review report	30
4 /	Thinking Like a Scientist	Lecture Interactive activity	Review the content Finish the review report	30
5 /	Thinking Like a Scientist	Lecture Interactive activity	Review the content Finish the review report	30
6 /	Thinking Like a Scientist	Lecture Interactive activity	Review the content Finish the review report	30
7 /	Thinking Like a Scientist <i>Report 1 Due</i>	Lecture Interactive activity	Review the content Finish the review report	30
8 /	Thinking Like a Scientist <i>Report 1 graded and returned</i>	Lecture Interactive activity	Review the content Finish the review report	30
9 /	Catch-up / Quiz 1	Review and evaluate your progress and understanding	Study for a quiz / review report	30
10 /	Matter and Change	Lecture Interactive activity	Review the content Finish the review report	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 /	Matter and Change	Lecture Interactive activity	Review the content Finish the review report	30
12 /	Matter and Change	Lecture Interactive activity	Review the content Finish the review report	30
13 /	Matter and Change	Lecture Interactive activity	Review the content Finish the review report	30
14 /	Matter and Change <i>Report 2 Due</i>	Lecture Interactive activity	Review the content Finish the review report	30
15 /	Matter and Change <i>Report 2 graded and returned</i>	Lecture Interactive activity	Review the content Finish the review report	30
16 /	Catch-up / Quiz 2	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
17 /	Describing Process and Results	Lecture Interactive activity	Review the content Finish the review report	30
18 /	Describing Process and Results	Lecture Interactive activity	Review the content Finish the review report	30
19 /	Describing Process and Results	Lecture Interactive activity	Review the content Finish the review report	30
20 /	Describing Process and Results	Lecture Interactive activity	Review the content Finish the review report	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 /	Describing Process and Results <i>Report 3 Due</i>	Lecture Interactive activity	Review the content Finish the review report	30
22 /	Describing Process and Results <i>Report 3 graded and returned</i>	Lecture Interactive activity	Review the content Finish the review report	30
23 /	Catch-up / Quiz 3	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30
24 /	Identifying Facts and Forming Opinions	Lecture Interactive activity	Review the content Finish the review report	30
25 /	Identifying Facts and Forming Opinions	Lecture Interactive activity	Review the content Finish the review report	30
26 /	Identifying Facts and Forming Opinions	Lecture Interactive activity	Review the content Finish the review report	30
27 /	Identifying Facts and Forming Opinions	Lecture Interactive activity	Review the content Finish the review report	30
28 /	Identifying Facts and Forming Opinions <i>Report 4 Due</i>	Lecture Interactive activity	Review the content Finish the review report	30
29 /	Identifying Facts and Forming Opinions <i>Report 4 graded and returned</i>	Lecture Interactive activity	Review the content Finish the review report	30
30 /	Catch-up / Quiz 4	Review and evaluate your progress and understanding	Study for a quiz / review the contents	30

令和3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 必修	日本語IA	5	505600	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
1年	札幌 寛子	白山麓C 101.201			木曜 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	日本語	キャンパスでの一般的な日常会話ができるようになるために、日本語の初級レベルの文型や語彙を習得する。また、学生の出身国のようすを紹介したり、クラスメートや教職員への調査なども行ったりして、その結果を記事にする新聞プロジェクトに取り組む。
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

週5回の授業のうち、4回は総合テキストを用いた学習を行う。
残りの1回は、別セッションの学生と協力して、日本語での新聞記事作成活動を行う。

総合テキストを用いた授業において最初の2週間は、既習内容を復習する。その後、新出文型や語彙を学び、4技能（話す・聞く・読む・書く）に渡る実践的な練習を行う。

教室で学習した語彙や表現を日常生活の中でも積極的に活用して、より自然な文脈での日本語使用に慣れるように努めることが、言語習得の早道である。

【教科書および参考書・リザーブドブック】

教科書：坂野永理他著『初級日本語げんきI [第3版]』Japan Times, 2020
同著 『初級日本語げんきI ワークブックI [第3版]』Japan Times, 2020
参考書：
リザーブドブック：なし

履修に必要な予備知識や技能

特になし

No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標
①	e,i	ひらがな、カタカナ、漢字を適切に用いることができる。
②	e,i	促音や拗音も含めた日本語音声を聞き分けることができる。
③	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。
④	e,i	テキストで学んだ文型や語彙を用いて話したり書いたりして、大まかに自分の意志を伝えることができる。
⑤	e,i	挨拶表現など、日本での習慣的な基本ルールを理解し、行動で表現できる。
⑥	g	新聞記事で伝えたい内容を、適切な語彙や文型を用いて、表現できる。

達成度評価

評価方法		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
指標と評価割合									
総合評価割合		0	80	0	0	20	0	0	100
総合力指標	知識を取り込む力	0	40	0	0	10	0	0	50
	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	40	0	0	10	0	0	50
	学習に取り組む姿勢・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	第5課から、各課ごとに単語クイズと漢字クイズ、それぞれ8回ずつ行う。成績集計においては、毎回の得点（%）をもとに単語クイズ、漢字クイズそれぞれの全体の平均点（%）を算出し、20点満点で換算、それを40点満点で合算する。
	②	
	③	2課ごとに、学習した文型・文法についての筆記テスト（一部、聴解問題含む）を学期中に4回実施する。成績は、各回の平均点（%）をもとに4回分の平均点（%）を算出し、それを40点満点に換算する。
	④	
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	
	⑤	
	⑥	
成果発表 (口頭・実技)	①	
	②	
	③	
	④	
	⑤	
	⑥	
作品	①	好きなトピックを選んで、学期中に4回新聞記事を作成する。記事には、学習した語彙や文型を使ってみることを試みる。1回分を5点満点とし、指定した期日までに記事を完成させれば満点で、遅れたり、内容が不十分である場合は適宜減点する。
	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
<p>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。</p>	<p>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。</p>

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、Good Work!」：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ください。

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 /	自己紹介 Self Introductions 授業説明 Class Orientation Classroom Expressions Numbers	講義・演習 Lecture・Practice	Classroom Expressionsを覚える Memorize Classroom Expressions 文法ワークブックGrammar Workbook (Lesson 1)	30
2 /	manabaの使い方How to use "manaba" Age Time Lesson 2 こそあどexpressions 会話(かいわ) Dialogue	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson 2 #1~4)	30
3 /	橋谷君との自己紹介 Meeting your classmate 新聞づくり Newspaper Project#1-1 4回の大きなテーマ Choosing 4 Themes 第1号の記事のトピック(できれば一人2~3トピック) Choosing 2~3 topics for the 1 st issue	講義・演習 Lecture・Practice	記事作成 Article writing	30
4 /	Lesson 2 かぞくfamily ~です/では(じゃ)ありません・じゃないです (L.4 でした・ではありませんでした・じゃなかったです) Lesson 2 Rd/Wr かたかなReview	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson2 #5~7) 文法ワークブックのかたかな Lesson2 Katakana in Gr.WB	30
5 /	かたかなReview L.2 まとめのれんしゅう L.3 どうしVerb groups	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson3 #1)	30
6 /	L.3 ~ます/ません (L.4 ました/ませんでした・なかったです) ~ますか/ませんか L.4 日・週・月・年days/weeks/months/years	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson3 #2~5)	30
7 /	L.3 じょし Particles (placeに/へ、timeに、を、で) 会話(かいわ) Dialogue L.3 Rd. Wr. 漢字(かんじ) Kanji	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson3 #6~8) 文法ワークブックの漢字L.3 (Lesson 3 Kanji in Gr.WB)	30
8 /	新聞づくり Newspaper Project#1-2 記事#1-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
9 /	L.4 Location words あります/います	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson4 #1-4)	30
10 /	L.4 会話(かいわ) Dialogue L.4 復習(ふくしゅう) Review 文法WB Grammar WB (L.4 #8~9) 日本の休日Japanese National Holidays	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook (Lesson4 #5~7)	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)
11 /	Lesson 5 単語（たんご） 会話（かいわ） 文法（ぶんぽう）1 練習（れんしゅう）1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
12 /	文法（ぶんぽう）2 練習（れんしゅう）2 漢字（かんじ）	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
13 /	新聞づくり Newspaper Project#1-3 記事#1-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
14 /	Vocabulary Quiz #1 (Lesson 5) 文法（ぶんぽう）3 練習（れんしゅう）3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 単語クイズの復習Review on Voc Q.	30
15 /	復習（ふくしゅう Review）	講義・演習 Lecture・Practice	復習Review	30
16 /	Useful Expression 書く練習（かくれんしゅう）	講義・演習 Lecture・Practice	書く練習（かくれんしゅう）つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
17 /	Kanji Quiz #1 (Lesson 5) 読む練習（よむれんしゅう）	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review	30
18 /	新聞づくり Newspaper Project#1-4 記事#1-3の情報検索と記事原稿作成 全体の原稿チェック	講義・演習 Lecture・Practice	記事作成 Article writing	30
19 /	Lesson 6 単語（たんご） 会話（かいわ） 文法（ぶんぽう）1 練習（れんしゅう）1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
20 /	文法（ぶんぽう）2 練習（れんしゅう）2 漢字（かんじ）	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30

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CLIP学習プロセスについて

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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)
21 /	Vocabulary Quiz #2 (Lesson 6) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
22 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
23 /	新聞づくり Newspaper Project#2-1 記事#2-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
24 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
25 /	Kanji Quiz #2 (Lesson 6) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review テスト準備Study for Test	30
26 /	Test 1 (Lessons 5-6) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return	復習Review	30
27 /	Lesson 7 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
28 /	新聞づくり Newspaper Project#2-2 記事#2-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
29 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
30 /	Vocabulary Quiz #3 (Lesson 7) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30

授業明細表

C L I P 学習プロセスについて

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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)
31 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
32 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
33 /	新聞づくり Newspaper Project#2-3 記事#2-3の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
34 /	Kanji Quiz #3 (Lesson 7) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review	30
35 /	Lesson 8 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
36 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
37 /	Vocabulary Quiz #4 (Lesson8) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
38 /	新聞づくり Newspaper Project#2-4 記事#2-4の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
39 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
40 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	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)
41 /	Kanji Quiz #4 (Lesson 8) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review テスト準備Study for Test	30
42 /	Test 2 (Lessons 7-8) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return	復習Review	30
43 /	新聞づくり Newspaper Project#3-1 記事#3-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
44 /	Lesson 9 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
45 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
46 /	Vocabulary Quiz #5 (Lesson 9) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
47 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
48 /	新聞づくり Newspaper Project#3-2 記事#3-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
49 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
50 /	Kanji Quiz #5 (Lesson 9) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review	30

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51 /	Lesson 10 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
52 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
53 /	新聞づくり Newspaper Project #3-3 記事#3-3の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
54 /	Vocabulary Quiz #6 (Lesson 10) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
55 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
56 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
57 /	Kanji Quiz #6 (Lesson 10) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review	30
58 /	新聞づくり Newspaper Project #3-4 記事#3-4の情報検索と記事原稿作成 全体の原稿チェック	演習 Practice	記事作成 Article writing テスト#3準備 Prepare for Test 3	30
59 /	Test 3 (Lessons9-10) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return	復習Review	30
60 /	Lesson 11 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30

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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、Good Work!」：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ください。

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)
61 /	文法(ぶんぽう) 2 練習(れんしゅう) 2 漢字(かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
62 /	Vocabulary Quiz #7 (Lesson 11) 文法(ぶんぽう) 3 練習(れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
63 /	新聞づくり Newspaper Project #4-1 記事#4-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
64 /	復習(ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
65 /	Useful Expression 書く練習(かくれんしゅう)	講義・演習 Lecture・Practice	書く練習(かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
66 /	Kanji Quiz #7 (Lesson 11) 読む練習(よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review	30
67 /	新聞づくり Newspaper Project #4-2 記事#4-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice	記事作成 Article writing	30
68 /	Lesson 12 単語(たんご) 会話(かいわ) 文法(ぶんぽう) 1 練習(れんしゅう) 1	講義・演習 Lecture・Practice	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
69 /	文法(ぶんぽう) 2 練習(れんしゅう) 2 漢字(かんじ)	講義・演習 Lecture・Practice	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
70 /	Vocabulary Quiz #8 (Lesson 12) 文法(ぶんぽう) 3 練習(れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	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、Good Work!」：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ください。

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)
71 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice	復習Review	30
72 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
73 /	Kanji Quiz #8 (Lesson 12) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return	復習Review テスト準備Study for Test	30
74 /	Test 4 (Lessons 11-12) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return	復習Review	30
75 /	新聞づくり Newspaper Project #4-3 記事#4-3の情報検索と記事原稿作成 全体の原稿チェック	演習 Practice		

令和3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 必修		日本語IA	5	505600	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			
1年	札幌 寛子、瀧辺 豊、黒田 譜美、		白山麓C 101.201			札幌 木曜 16:30-17:30 瀧辺 月曜 16:30-17:30 黒田 月曜 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	日本語	本科目は、主に帰国生を対象として漢字語彙の増強を図り、読解力・表現力の向上を目指す。さまざまな文章を速く正確に読めるようになるために、小説、エッセイ、評論、新聞・雑誌・インターネットの記事など、多分野のさまざまな話題の文章を大量に読む「多種多読」を実践するほか、要約や作文、プレゼンテーションに取り組み、「書く力」「話す力」を伸ばす。また、新聞作りプロジェクトに参加し、異文化との比較の視点から日本の文化・社会への関心や理解を深める。							
2	読む力								
3	書く力								
4	話す力								
5	日本文化・社会								
授業の概要および学習上の助言									
75回の授業を教員3名で分担する。成績は分担の割合に応じて、以下の配分にて判定する。									
分担割合		札幌	20%	瀧辺	20%	黒田	60%		
クイズ/小テスト					10%	40%			
レポート								10%	
成果発表/口頭・実技					10%				
作品		20%							
ポートフォリオ								10%	
【教科書および参考書・リザーブドブック】									
教科書：岡まゆみ『中・上級者のための速読の日本語 第2版』（株式会社ジャパンタイムズ）、『1026字の正しい書き方 四訂版』（旺文社）、桑原隆監修『チャレンジ小学国語辞典 カラー版 第2版』（ベネッセコーポレーション)									
参考書：なし									
リザーブドブック：なし									
履修に必要な予備知識や技能									
日本語の初級レベルを習得している。									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	i	漢字語彙の習得に努めることができる。							
②	f	日本語の正しいアクセントやイントネーションを意識して、プレゼンや歌唱ができる。							
③	f	新聞・雑誌・インターネットの記事やエッセイを読んで、すばやく大意をつかむことができる。							
④	f	関心のある話題について、具体例を入れて詳しく説明することができる。							
⑤	e	日本文化・社会について、主体的に調べることができる。							
⑥	g	新聞記事で伝えたい内容を、適切な語彙や文型を用いて、表現できる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	50	10	10	20	10	0	100
総合力指標	知識を取り込む力	0	50	0	0	10	0	0	60
	思考・推論・創造する力	0	0	5	0	0	5	0	10
	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
	学習に取り組む姿勢・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	
	②	
	③	
	④	
	⑤	
	⑥	
クイズ 小テスト	①	✓
	②	渦辺担当：日本語クイズに基づく小テストを3回実施する。10点
	③	
	④	黒田担当：漢字語彙の小テストを12回実施する。成績の集計については、毎回の点数を百分率(%)に換算し、その平均点を40点満点で算出する。
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	✓
	⑤	黒田担当：作文の課題を1回課し、10点満点とする。
	⑥	
成果発表 (口頭・実技)	①	
	②	✓
	③	渦辺担当：自己紹介のプレゼン発表。5点
	④	日本語の歌の歌唱。5点
	⑤	
	⑥	
作品	①	
	②	
	③	
	④	✓
	⑤	✓
	⑥	✓
ポートフォリオ	①	
	②	
	③	✓
	④	黒田担当：教科書（第Ⅱ部実践編）の記述問題を保存し、10点満点とする。
	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
漢字語彙の習得に努め、常に正確に読み書きできる。 常に正しいアクセントやイントネーションで、プレゼンや歌唱ができる。 新聞・雑誌・インターネットの記事やエッセイを読んで、すばやく大意をつかむことができる。 関心のある話題について、具体例を入れて詳しく説明することができる。 日本文化・社会について主体的に調べ、積極的に発信することができる。 新聞記事で伝えたい内容を、常に適切な語彙や文型を用いて、表現できる。	漢字語彙の習得に努めることができる。 アクセントやイントネーションを意識して、プレゼンや歌唱ができる。 新聞・雑誌・インターネットの記事やエッセイを読んで、大意をつかむことができる。 関心のある話題について、具体例を入れて説明することができる。 日本文化・社会について調べることができる。 新聞記事で伝えたい内容を、語彙や文型に気をつけて表現できる。

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、Good Work!」：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ください。

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 /	瀧辺担当： ガイダンス 自己紹介プレゼン作成	講義・演習	プレゼンの完成	20
2 /	黒田担当： 自己紹介と授業説明	講義・演習	学習内容の再確認	20
3 /	札幌担当： 自己紹介&ウォーミングアップ会話	講義・演習	学習内容の再確認	20
4 /	黒田担当： 第I部 基本技術編 ・スキャニングの技術を使う ステップ1～3	講義・演習	学習内容の再確認	20
5 /	黒田担当： ・スキャニングの技術を使う ステップ4	講義・演習	学習内容の再確認	20
6 /	瀧辺担当： 自己紹介プレゼン発表・ビデオ撮り 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
7 /	黒田担当： 漢字練習(1)	講義・演習 小テスト①実施	学習内容の再確認	20
8 /	札幌担当： 新聞プロジェクト 説明 #1のトピック決め (出身地の紹介?)	講義・演習	学習内容の再確認	20
9 /	黒田担当： ・スキャニングの技術を使う ステップ4	講義・演習 小テスト①返却	学習内容の再確認	20
10 /	黒田担当： ・スキャニングの技術を使う ステップ4	講義・演習	学習内容の再確認	20

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、Good Work!」：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ください。

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 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
12 /	黒田担当： 漢字練習(2)	講義・演習 小テスト②実施	学習内容の再確認	20
13 /	札幌担当： 新聞プロジェクト #1の記事作成	講義・演習	学習内容の再確認	20
14 /	黒田担当： ・スキミングの技術を使う ステップ4	講義・演習 小テスト②返却	学習内容の再確認	20
15 /	黒田担当： ・スキミングの技術を使う ステップ5-1	講義・演習	学習内容の再確認	20
16 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
17 /	黒田担当： レポート作成	講義・演習 レポート①提出	学習内容の再確認	20
18 /	札幌担当： 新聞プロジェクト #1の記事チェック+掲示	講義・演習	学習内容の再確認	20
19 /	黒田担当： ・スキミングの技術を使う ステップ6	講義・演習 レポート①返却	学習内容の再確認	20
20 /	黒田担当： ・スキミングの技術を使う ステップ7	講義・演習	学習内容の再確認	20

授業明細表

C L I P 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、Good Work!」：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ってください。
 ※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ください。

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)
21 /	瀧辺担当： 歌唱 日本語クイズ演習 小テスト 小テスト返却	講義・演習	学習内容の再確認	20
22 /	黒田担当： 漢字練習(3)	講義・演習 小テスト③実施	学習内容の再確認	20
23 /	札幌担当： ふりかえり	講義・演習	学習内容の再確認	20
24 /	黒田担当： ・スキミングの技術を使う ステップ8	講義・演習 小テスト③返却	学習内容の再確認	20
25 /	黒田担当： ・スキミングの技術を使う ステップ9	講義・演習	学習内容の再確認	20
26 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
27 /	黒田担当： 漢字練習(4)	講義・演習 小テスト④実施	学習内容の再確認	20
28 /	札幌担当 新聞プロジェクト #2トピック決め (中国語と日本語の語彙の類似・相違点)	講義・演習	学習内容の再確認	20
29 /	黒田担当： ・スキミングの技術を使う ステップ10	講義・演習 小テスト④返却	学習内容の再確認	20
30 /	黒田担当 ・スキミングの技術を使う ステップ11	講義・演習	学習内容の再確認	20

授業明細表

C L I P 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ください。

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)
31 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
32 /	黒田担当： 漢字練習(5)	講義・演習 小テスト⑤実施	学習内容の再確認	20
33 /	札幌担当： 新聞プロジェクト #2記事作成	講義・演習	学習内容の再確認	20
34 /	黒田担当： ・スキャニングとスキミングの技術を同時に使う 練習1～5	講義・演習 小テスト⑤返却	学習内容の再確認	20
35 /	黒田担当： ・スキャニングとスキミングの技術を同時に使う 練習6～10	講義・演習	学習内容の再確認	20
36 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
37 /	黒田担当： 漢字練習(6)	講義・演習 小テスト⑥実施	学習内容の再確認	20
38 /	札幌担当： 新聞プロジェクト #2記事チェック+掲示	講義・演習	学習内容の再確認	20
39 /	黒田担当： 第Ⅱ部 実践編 ・必要な情報を取り出す 問題1～4	講義・演習 小テスト⑥返却	学習内容の再確認	20
40 /	黒田担当： ・必要な情報を取り出す 問題5～8	講義・演習	学習内容の再確認	20

授業明細表

CLIP学習プロセスについて

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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)
41 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
42 /	黒田担当： 漢字練習(7)	講義・演習 小テスト⑦実施	学習内容の再確認	20
43 /	札幌担当： ふりかえり	講義・演習	学習内容の再確認	20
44 /	黒田担当： 正誤問題	講義・演習 小テスト⑦返却	学習内容の再確認	20
45 /	黒田担当： 選択問題 問題15～17	講義・演習	学習内容の再確認	20
46 /	瀧辺担当： 歌唱 日本語クイズ演習 小テスト 小テスト返却	講義・演習	学習内容の再確認	20
47 /	黒田担当： 漢字練習(8)	講義・演習 小テスト⑧実施	学習内容の再確認	20
48 /	札幌担当： 新聞プロジェクトー#3トピック決め・記事作成	講義・演習	学習内容の再確認	20
49 /	黒田担当： 選択問題 問題18～20	講義・演習 小テスト⑧返却	学習内容の再確認	20
50 /	黒田担当： ・タイトル・トピック・主題・内容を考える	講義・演習	学習内容の再確認	20

授業明細表

C L I P 学習プロセスについて

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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)
51 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
52 /	黒田担当： 漢字練習(9)	講義・演習 小テスト⑨実施	学習内容の再確認	20
53 /	札幌担当： 新聞プロジェクト-#3記事作成+チェック+掲示	講義・演習	学習内容の再確認	20
54 /	黒田担当： ・次に続く内容を予測する(1)	講義・演習 小テスト⑨返却	学習内容の再確認	20
55 /	黒田担当： ・次に続く内容を予測する(2)	講義・演習	学習内容の再確認	20
56 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
57 /	黒田担当： 漢字練習(10)	講義・演習 小テスト⑩実施	学習内容の再確認	20
58 /	札幌担当： ふりかえり	講義・演習	学習内容の再確認	20
59 /	黒田担当： ・見出しを読む(1)	講義・演習 小テスト⑩返却	学習内容の再確認	20
60 /	黒田担当： ・見出しを読む(2)	講義・演習	学習内容の再確認	20

授業明細表

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61 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20
62 /	黒田担当： 漢字練習(11)	講義・演習 小テスト⑩実施	学習内容の再確認	20
63 /	札幌担当： 新聞プロジェクト-#4トピック決め・記事作成	講義・演習	学習内容の再確認	20
64 /	黒田担当： ・身の上相談の記事を読む(1)	講義・演習 小テスト⑩返却	学習内容の再確認	20
65 /	黒田担当： ・身の上相談の記事を読む(2)	講義・演習	学習内容の再確認	20
66 /	黒田担当： 漢字練習(12)	講義・演習 小テスト⑪実施	学習内容の再確認	20
67 /	札幌担当： 新聞プロジェクト-#4記事作成、チェック、掲示	講義・演習	学習内容の再確認	20
68 /	黒田担当： ・記事を読んでディスカッションする	講義・演習 小テスト⑪返却	学習内容の再確認	20
69 /	黒田担当： ・記事を読んでディスカッションする	講義・演習 ポートフォリオ提出	学習内容の再確認	20
70 /	瀧辺担当： 歌唱 日本語クイズ演習	講義・演習	学習内容の再確認	20

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71 ／	黒田担当： 第Ⅲ部 挑戦編 ・ショートショート「誘拐」「ボッコちゃん」	講義・演習	学習内容の再確認	20
72 ／	黒田担当： ・ショートショート「愛用の時計」「不眠症」	講義・演習	学習内容の再確認	20
73 ／	潟辺担当： 歌唱 日本語クイズ演習 小テスト 小テスト返却	講義・演習	学習内容の再確認	20
74 ／	黒田担当： まとめとふりかえり	講義・演習	学習内容の再確認	20
75 ／	札幌 まとめとふりかえり	講義・演習	学習内容の再確認	20

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 必修		日本語IB	5	505700	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			
1年	札幌 寛子	白山麓C 101.201				木曜 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	日本語	キャンパスでの一般的な日常会話ができるようになるために、日本語の初中級レベルの文型や語彙を習得する。漢字も約100字新たに学習する。また、まとまった長さの文章を読んで内容を理解することと、50~100字程度でまとまりのある作文が書けるようになることもめざす。							
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									
総合テキストを用いて、新出文型や語彙を学び、4技能（話す・聞く・読む・書く）に渡る実践的な練習を行う。 教室で学習した語彙や表現を日常生活の中でも積極的に活用して、より自然な文脈での日本語使用に慣れるように努めることが、言語習得の早道である。									
【教科書および参考書・リザーブドブック】									
教科書：坂野永理他著『初級日本語げんきI [第3版]』Japan Times, 2020 同著『初級日本語げんきII [第3版]』Japan Times, 2020 同著『初級日本語げんきI ワークブックI [第3版]』Japan Times, 2020 同著『初級日本語げんきII ワークブックII [第3版]』Japan Times, 2020 参考書： リザーブドブック：なし									
履修に必要な予備知識や技能									
特になし									
No.	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。							
②	e,i	テキストで学んだ文型や語彙を用いて話したり書いたりして、大まかに自分の意志を伝えることができる。							
③	e,i	テキストで学んだ漢字を実践的に使うことができる。							
④									
⑤									
⑥									
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	85	0	15	0	0	0	100
総合力指標	知識を取り込む力	0	40	0	5	0	0	0	45
	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	45	0	10	0	0	0	55
	学習に取り組む姿勢・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	第12課から、各課ごとに単語クイズと漢字クイズをそれぞれ6回ずつ行う。成績集計においては、毎回の得点（%）をもとに単語クイズ、漢字クイズそれぞれの全体の平均点（%）を算出し、20点満点で換算（単語クイズ20点満点+漢字クイズ20点満点）、それを40点満点で合算する。
	②	
	③	
	④	2課ごとに、学習した文型・文法についての筆記テスト（一部、聴解問題含む）を学期中に3回実施する。成績は、各回の平均点（%）をもとに3回分の平均点（%）を算出し、それを45点満点に換算する。
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	
	⑤	
	⑥	
成果発表 (口頭・実技)	①	第12課から毎課で、50～100字程度の作文課題に取り組む。期日までに提出し、設定条件を満たしていたら提出点を与える。最大6回で、全成績のうちの10点満点とする。
	②	
	③	
	④	最終の筆記テスト時に、これまでに学習した文型や語彙を使えるかどうかを確認するための会話テストを実施する。採点は、別途定めるルーブリックを用いて、全成績のうちの5点満点とする。
	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	
	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
<p>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。 学習した漢字も正しく用いることができる。</p>	<p>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。 漢字については、少々誤りはあるものの、おおよそ意味が通じる程度に用いることができる。</p>

授業明細表

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1 / /	授業説明 Course Orientation 復習 Review Book Reviewの発表 Presentation Lesson 12 単語 Vocabulary (たんご) Vocabulary	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習 Vocabulary Review	30
2 / /	Lesson 12 単語 Vocabulary (たんご) Vocabulary つづき 会話 Dialogues (かいわ) Dialogues	講義・演習 Lecture・Practice オンライン (Zoom)	単語クイズ 準備 Prepare for Voc. Quiz	30
3 / /	Vocabulary Quiz #1 (Lesson 12) 文法 (ぶんぽう) Grammar 1 ～んです	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	文法ワークブック Grammar Workbook (以下 GW) Lesson 12 #1	30
4 / /	Lesson 12 文法 (ぶんぽう) Grammar 2 ～すぎる 3 ～ほうがいい 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン (Zoom)	GW L.12 #2-3 漢字の復習 Kanji Review Kanji Quiz準備	30
5 / /	Kanji Quiz #1 (Lesson 12) 文法 Grammar 4 ので 5 なければ/なきゃいけません	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L.12 #4-5	30
6 / /	Lesson 12 文法 Grammar 5 なければ/なきゃいけません (復習) 6 ～でしょうか	講義・演習 Lecture・Practice オンライン (Zoom)	GW L.12 #6	30
7 / /	Useful Expression WB Lesson 12 聞く練習 Lesson 13 単語 Vocabulary	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習 Vocabulary Review	30
8 / /	Lesson 13 単語 Vocabulary 会話 Dialogues	講義・演習 Lecture・Practice オンライン (Zoom)	単語クイズ 準備 Prepare for Voc. Quiz	30
9 / /	Vocabulary Quiz #2 (Lesson 13) 文法 Grammar 1 potential verbs 漢字	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L.13 #1 漢字の復習 Kanji Review	30
10 / /	Vocabulary Quiz #2 (Lesson 13) 日付/日数のよみかた (how to count number of days) 文法 Grammar 2 ～し	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L13 #2 Kanji Quiz準備	30

授業明細表

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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)
11 /	Kanji Quiz #2 (Lesson 13) 文法 2 ~し復習(review) 3 そうです It looks	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L.13 #3 書く練習 Writing Practice 作文 'sakubun'	30
12 /	文法 3 そうです復習(review) Sakubun わたしのゆめ チェック 文法 4 ~てみる	講義・演習 Lecture・Practice オンライン (Zoom)	GW L.13 #4	30
13 /	文法 5 なら 6 一週間に3回 Cultural notes 年号と干支 Useful expressions 銀行で	講義・演習 Lecture・Practice オンライン (Zoom)	GW L.13 #5-6	30
14 /	WB p.20 聞く練習 読む練習 Reading Practice 日本のおもしろい経験 書く練習 読む練習 Reading Practice 留学生座談会	講義・演習 Lecture・Practice オンライン (Zoom)	書く練習 Writing Practice 作文 'sakubun'	30
15 /	Lesson 13 復習(review) Lesson 14 単語 Vocabulary 会話 Dialogues	講義・演習 Lecture・Practice オンライン (Zoom)	テスト準備 単語の復習 Vocabulary Review	30
16 /	Test #1 (Lessons 12-13) ふりかえり L.14 会話つづき Dialogues (continued)	講義・演習 Lecture・Practice テスト実施・採点・返却 Test, Grading & Return オンライン (Zoom)	単語の復習 Vocabulary Review	30
17 /	文法 Grammar 1 ほしい 漢字	講義・演習 Lecture・Practice オンライン (Zoom)	単語クイズ 準備 Prepare for Voc. Quiz	30
18 /	Vocabulary Quiz #3 (Lesson 14) 文法 Grammar 1 ほしい 2 かもしれない	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L.14 #1-2	30
19 /	文法 Grammar 3 あげる/くれる/もらう復習(review) 文法 Grammar 4 たらどうですか	講義・演習 Lecture・Practice オンライン (Zoom)	GW L.14 #3 漢字の復習 Kanji Review Kanji Quizの準備	30
20 /	Kanji Quiz #3 (Lesson 14) 文法 Grammar 4 たらどうですか 5 #も/#しかneg	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L.14 #4-5	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)
21 / /	教え方 読む練習 Reading Practice 「悩みの相談」 書く練習	講義・演習 Lecture・Practice オンライン (Zoom)	テストの準備 書く練習 Writing Practice 作文 'sakubun'	30
22 / /	聞く練習 Lesson 15 単語 Vocabulary	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習 Vocabulary Review	30
23 / /	Lesson 15 単語つづき 会話 Dialogues	講義・演習 Lecture・Practice オンライン (Zoom)	単語クイズ 準備 Prepare for Voc. Quiz	30
24 / /	Vocabulary Quiz #4 (Lesson 15) 文法 Grammar 4 関係詞節 読解 「渋谷」	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L. 15 #4	30
25 / /	読解 「渋谷」つづき、「広島・宮島」	講義・演習 Lecture・Practice オンライン (Zoom)	書く練習 Writing Practice 作文 'sakubun'	30
26 1/ /	作文宿題のチェックとディスカッション 漢字	講義・演習 Lecture・Practice オンライン (Zoom)	漢字の復習 Kanji Review	30
27 / /	Kanji Quiz #4 (Lesson 15) 文法 Grammar 1 Volitional forms 2 Volitional +と思っています	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	GW L. 15 #1-2 漢字の復習 Kanji Review	30
28 / /	文法 Grammar 3 ~ておく 4 関係詞節 (復習)	講義・演習 Lecture・Practice オンライン (Zoom)	GW L. 17 #3-4	30
29 / /	L. 15 会話復習 聞く練習 テスト範囲復習	講義・演習 Lecture・Practice オンライン (Zoom)	テストの準備	30
30 / /	Test 2 (Lessons 14-15) ふりかえり (Review)	講義・演習 Lecture・Practice テスト実施・採点・返却 Test, Grading & Return オンライン (Zoom)	全体の復習	30

令和3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 必修	日本語IB	2	505700	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
1年	瀧辺 豊, 黒田 譜美,	白山麓C 101.201		瀧辺 月曜 16:30-17:30 黒田 火曜 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	日本語	本科目は、主に帰国生を対象として漢字語彙の増強を図り、読解力・表現力の向上を目指す。さまざまな文章を速く正確に読めるようになるために、小説、エッセイ、評論、新聞・雑誌・インターネットの記事など、多分野のさまざまな話題の文章を大量に読む「多種多読」を実践するほか、構成を意識した意見文作成や、音声表現・非音声表現を工夫したプレゼンテーションに取り組み、「書く力」「話す力」を伸ばす。
2	読む力	
3	書く力	
4	話す力	
5	日本文化・社会	

授業の概要および学習上の助言

30回の授業を教員2名で分担する。成績は分担の割合に応じて、以下の配分にて判定する。

分担割合	瀧辺	50%	黒田	50%
クイズ/小テスト	30%		30%	
レポート		%		10%
成果発表/口頭・実技		10%		10%
作品		10%		
ポートフォリオ		%		

【教科書および参考書・リザーブドブック】

教科書：前学期日本語IAと同じ

参考書：なし

リザーブドブック：なし

履修に必要な予備知識や技能

日本語の初級レベルを習得している。

No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標
①	i	漢字語彙、文法、表記法、敬語法の習得に努めることができる。
②	i	習得した漢字語彙、文法、表記法、敬語法を積極的に使い、自分の表現に生かすことができる。
③	ef	日本語の言葉の美しさを意識して、俳句や短歌を作ることができる。
④	ef	正しいアクセントやイントネーションを意識して、日本語の歌唱や音読、プレゼンができる。
⑤	ef	意見文の目的、構成を理解し、説得力のある意見文を書くことができる。
⑥	ef	音声表現・非音声表現を工夫して、効果的な発表を行うことができる。

達成度評価

評価方法		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
指標と評価割合									
総合評価割合		0	60	10	20	10	0	0	100
総合力指標	知識を取り込む力	0	60	0	0	0	0	0	60
	思考・推論・創造する力	0	0	5	5	10	0	0	20
	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	10	0	0	0	15
	学習に取り組む姿勢・意欲	0	0	0	5	0	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
クイズ 小テスト	①	✓
	②	
	③	瀧辺担当：言葉クイズ（3回）：30点
	④	黒田担当：漢字語彙の小テスト（5回）：30点
	⑤	
	⑥	
レポート	①	
	②	✓
	③	
	④	黒田担当：意見文（1200字程度）：10点
	⑤	✓
	⑥	
成果発表 （口頭・実技）	①	
	②	
	③	瀧辺担当：日本語での歌唱、長文音読：10点
	④	✓
	⑤	黒田担当：意見発表（3分）：10点
	⑥	✓
作品	①	
	②	✓
	③	✓
	④	瀧辺担当：俳句、短歌の作成：10点
	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
漢字語彙、文法、表記法、敬語法の習得に努め、常に正確に読み書きできる。 習得した漢字語彙、文法、表記法、敬語法を積極的に使い、自分の表現に生かすことができる。 正確な発音、イントネーションで熱意を持って日本語の歌唱や音読、プレゼンができる。 正しく美しい日本語で、短歌を作ることができる。 意見文の目的、構成を理解し、説得力のある意見文を書くことができる。 音声表現・非音声表現を工夫して、効果的な発表を行うことができる。	漢字語彙、文法、表記法、敬語法の習得に努めることができる。 習得した漢字語彙、文法、表記法、敬語法を使い、自分の表現に生かすことができる。 概ね正確な発音、イントネーションで日本語の歌唱や音読、プレゼンができる。 正しい日本語で、俳句、短歌を作ることができる。 意見文の目的、構成を理解し、意見文を書くことができる。 音声表現・非音声表現を工夫して、発表を行うことができる。

授業明細表

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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ください。

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 ／	黒田担当： ガイダンス ・『1026字の正しい書き方』pp.182-185「愛」～ 「貨」	講義・演習	学習内容の再確認	20
2 ／	瀧辺担当： ガイダンス 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
3 ／	黒田担当： ・第I部 基本技術編 C-スキャニングとスキミングの 技術を同時に使う (1) ・ pp.187-189「課」～「観」	講義・演習	学習内容の再確認	20
4 ／	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
5 ／	黒田担当： ・C-スキャニングとスキミングの技術を同時に使う (2) ・ pp.190-193「願」～「協」	講義・演習 小テスト①	学習内容の再確認	20
6 ／	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
7 ／	黒田担当： ・C-スキャニングとスキミングの技術を同時に使う (3) ・ pp.194-197「鏡」～「験」	講義・演習 小テスト返却	学習内容の再確認	20
8 ／	瀧辺担当： 歌唱 言葉クイズ1 言葉クイズ返却 長文音読	講義・演習	学習内容の再確認	20
9 ／	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
10 ／	黒田担当： ・意見文の構成ノートを作成する。 ・ pp.198-201「固」～「刷」	講義・演習 小テスト②	学習内容の再確認	20

授業明細表

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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)
11 /	黒田担当： ・構成ノートを見直し、意見文を清書する。 ・ pp. 202-205 「察」～「種」	講義・演習 レポート提出 小テスト返却	学習内容の再確認	20
12 /	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
13 /	黒田担当： ・音声表現・非音声表現を工夫して、意見発表する。 ・ pp. 206-209 「周」～「省」	講義・演習 レポート返却	学習内容の再確認	20
14 /	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
15 /	黒田担当： ・第Ⅱ部 実践編 1. 必要な情報を取り出す (1) ・ pp. 210-213 「清」～「束」	講義・演習	学習内容の再確認	20
16 /	瀧辺担当： 歌唱 言葉クイズ2 言葉クイズ返却 長文音読	講義・演習	学習内容の再確認	20
17 /	黒田担当： ・ 1. 必要な情報を取り出す (2) ・ pp. 214-217 「側」～「兆」	講義・演習 小テスト③	学習内容の再確認	20
18 /	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
19 /	黒田担当： ・ 1. 必要な情報を取り出す (3) ・ pp. 218-221 「低」～「梨」	講義・演習 小テスト返却	学習内容の再確認	20
20 /	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20

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、Good Work!」：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ください。

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)
21 /	黒田担当： ・1. 必要な情報を取り出す(4) ・ pp. 222-225 「熟」～「付」	講義・演習	学習内容の再確認	20
22 /	瀧辺担当： 歌唱 日本語文法、表記法、敬語法演習 長文音読	講義・演習	学習内容の再確認	20
23 /	黒田担当： ・2. 正誤問題 ・ pp. 226-229 「府」～「末」	講義・演習 小テスト④	学習内容の再確認	20
24 /	瀧辺担当： 歌唱 言葉クイズ3 言葉クイズ返却 長文音読	講義・演習	学習内容の再確認	20
25 /	黒田担当： ・3. 選択問題 ・ pp. 230-233 「満」～「良」	講義・演習 小テスト返却	学習内容の再確認	20
26 /	瀧辺担当： 歌唱 俳句、短歌の作成準備 長文音読	講義・演習 オンライン	学習内容の再確認	20
27 /	瀧辺担当： 歌唱 俳句、短歌の作成準備 長文音読	講義・演習	学習内容の再確認	20
28 /	黒田担当 ・4. タイトル・トピック・主題・内容を考える ・ pp. 234-236 「要」～「録」	講義・演習	学習内容の再確認	20
29 /	瀧辺担当： 歌唱 俳句、短歌の作成 ふりかえり	講義・演習	学習内容の再確認	20
30 /	黒田担当 ・ふりかえり	講義・演習 小テスト⑤ 小テスト返却	学習内容の再確認	20

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Health and Physical Education IA		1	506800	First	Practice Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	TAKIMOTO, Akihiro CADZOW, Philip		Hakusanroku C: 101 Gym				Friday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Running			Practice running and increase the student's endurance and speed over a 2km course. Improve the students climbing ability using the schools indoor bouldering room. Develop badminton skills and agility for doubles badminton					
2	Climbing								
3	Badminton								
4	Focus								
5									
Course Description and Expectations for Students (10.5pt)									
<p>The expectation id for students to be on time for class in the correct uniform and fully participate in the activities of class, and encouraging of other students to do their best.</p> <p>The standard class structure will begin with running a set course, followed by skills practice in the given sport and finally participation in a class game. If due to corona we need to have class online, we will learn dance through zoom.</p> <p>The first 7 classes we will be doing climbing so after the run we will head to the indoor bouldering room and work on body coordination and technique. Students will be expected to think more on how they are using their body to climb more efficiently, rather than increasing power.</p> <p>The next 8 classes will be badminton skills such as serving, rules, agility, drive and varying other shots. Followed by doubles badminton games. Students will be expected to play against different people of varying ability and encourage everyone to try their best.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
School sports uniform, Indoor sports shoes, Outdoor sports shoes, Notebook and pen.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Willingness to work together as a team for sports. A drive to improve yourself and discover the joy of movement. Ability to understand basic instructions in English to maintain safety at all times.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to support each other in learning new skills							
②	f	Students will be able to take responsibility for their own behavior and training							
③	i	Students will be able to learn from failure and develop fortitude							
④	i	Students will learn how to train their body correctly for a healthy life							
⑤	c	Students will develop confidence in their abilities and work with a sincere heart							
⑥	b	Students will learn the value of enjoying sports and the lifelong benefits of exercise							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	15	60	25	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	0	10	0	10
	Ability to think, reason and create	0	0	0	15	0	0	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	0	0	20	15	0	45

* 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	Climbing: Marked out of 15. 5 points - can climb pink and light blues but struggles on easy oranges. 10 points - can climb up to red climbs but struggles for easy yellows. 15 points - can climb easy yellows with feet not on holds.
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	Sports: 4 points, participation >90%, positive attitude, encourages others, plays fair and in a safe way. Participation 80-90%, rarely complains, good but not best effort, plays mostly under control, respects other students but doesn't encourage others, 3 points. Participation 50-80%, complains sometimes has moderate effort, needs encouragement, tends to break game rules, occasionally disrespectful to other students, 2 points. Low level <50% participation, effort is lacking, negative attitude, needs frequent encouragement from teacher, plays unsafely (needs supervision), often argues. 1 points. 0 points is possible. Marked after each class, 60 total.
	②	
	③	
	④	
	⑤	
	⑥	
Portfolios	①	Running: keep a log book of your 2km times for each run. Each run time that is not logged will lose a point. Marked out of /15. Running: The fastest time will be used for your score. Boys scoring: 13-14min 4/10, 12-13min 5/10, 11-12min 6/10, 10-11min 7/10, 9-10min 8/10, 8-9min 9/10, 7-8min 10/10. Girls scoring: 15-16min 5/10, 14-15min 6/10, 13-14min 7/10, 12-13min 8/10, 11-12min 8/10, 10-11min 9/10, 9-10min 10/10 In the case of injury: Not able to run, a workout will be provided for 8/10 mark.
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Dress: for each time the student is not in correct uniform, or they will lose a point from their final score. Dance: If due to corona we need to online classes we will learn a dance via zoom and their effort/participation will be judged as per the sport criteria along with a demonstration when we are back in class.
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
The ideal student will put their best effort into both the warm up and the running. Keeping a positive attitude throughout the class and encouraging other students to do their best in climbing. They will try to participate with a sincere heart and remain focused through the skill practice, not attaching their sense of worth to their skill ability and willing to play sports with people outside of their friend groups. They will act in a safe manner in the climbing wall and being careful when setting up the badminton poles. They will clean the badminton nets away tidily for the next person, and look to help others to make cleaning faster. They will often encourage other people.	The standard student will warm up and run with no extra effort, they will participate in climbing and badminton all the time but with 70% effort. They will be safe in how they do things like use the climbing wall and setting up the badminton nets. They will enjoy sport but not go out of their way to encourage others or play with people outside of their friend group unless told to. they will need infrequent encouragement and not often complain.

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 Syllabus explanation Running 2km – show course and first try Weights room explanation	Lecture and Active Learning	Log run time	100
2 /	Continued introduction Running – 2km Climbing – safety and rules	Lecture and Active Learning	Log run time	100
3 /	Running 2km Climbing – footwork	Lecture and Active Learning	Log run time	100
4 /	Running 2km Climbing – handhold types and body position	Lecture and Active Learning	Log run time	100
5 /	Running 2km Climbing – working on challenges	Lecture and Active Learning	Log run time	100
6 /	Running 2km Climbing – working on challenges	Lecture and Active Learning	Log run time	100
7 /	Running 2km Climbing – final demonstration of challenges	Lecture and Active Learning	Log run time	100
8 /	Running 2km Badminton – how to set up/pack up gym, court explanation, racket grip	Lecture and Active Learning	Log run time	100
9 /	Running 2km Badminton – serving, lift, drive	Lecture and Active Learning	Log run time	100
10 /	Running 2km Badminton – movement	Lecture and Active Learning	Log run time	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 2km Badminton – drills, side to side, double games	Lecture and Active Learning	Log run time	100
12 /	Running 2km Badminton – drills, back and forward, double games	Lecture and Active Learning	Log run time	100
13 /	Running 2km Badminton – drills, 4 corners, doubles games	Lecture and Active Learning	Log run time	100
14 /	Running 2km Badminton – drills, doubles games	Lecture and Active Learning	Log run time	100
15 /	Running 2km – final. Badminton – drills, doubles games	Lecture and Active Learning	Log run time	100

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Health and Physical Education IB	1	506900	Second	Practice Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	TAKIMOTO, Akihiro CADZOW, Philip	Hakusanroku C: 101 Gym			Friday 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Training	Improve the body with body weight exercises.							
2	Volleyball	The students will improve their skill in volleyball serving and volley.							
3	Soccer	The student will develop their skill in soccer dribbling							
4	Focus	The student will learn the joy of team sports to play with a sincere heart.							
5									
Course Description and Expectations for Students (10.5pt)									
<p>The expectation id for students to be on time for class in the correct uniform and fully participate in the activities of class, and encouraging of other students to do their best.</p> <p>The standard class structure will begin with a body weight training regime, followed by skills in the given sport and finally participation in a class game. If due to corona we need to have class online, we will learn dance through zoom.</p> <p>For the first 8 classes we will be doing Volleyball after the bodyweight training. We will work on our serving (over and under hand serve) as well as team volley skills. We will incorporate this into playing games at the end of class. Students are expected to work together and be supportive. As well as practicing having control of the volleyball at all times; as to not endanger other students.</p> <p>The next 7 classes we will work on soccer footwork drills and soccer games. Passing and shooting as well as working in a team. Students are expected to include other players and play in a safe manner.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
School sports uniform, Indoor sports shoes, Notebook and pen.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Willingness to work together as a team for sports. A drive to improve yourself and discover the joy of movement. Ability to understand basic instructions in English to maintain safety at all times.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to support each other in learning new skills							
②	f	Students will be able to take responsibility for their own behavior and training							
③	i	Students will be able to learn from failure and develop fortitude							
④	i	Students will learn how to train their body correctly for a healthy life							
⑤	c	Students will develop confidence in their abilities and work with a sincere heart							
⑥	b	Students will learn the value of enjoying sports and the lifelong benefits of exercise							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	25	60	15	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	10	0	15	0	25
	Ability to think, reason and create	0	0	0	15	0	0	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	0	0	20	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	✓ Volleyball: Can demonstrate skills of Dig, Set, Serve (under and over) and describe the key movements of each component as well as basic strategy. 15points
	②	
	③	✓ Soccer: Can demonstrate skills of dribbling, passing, and shooting and describe the key movements of each skill and the basic strategy. 10 points
	④	
	⑤	✓
	⑥	✓
Works	①	Sports: 4 points, participation >90%, positive attitude, encourages others, plays fair and in a safe way. Participation 80-90%, rarely complains, good but not best effort, plays mostly under control, respects other students but doesn't encourage others, 3 points. Participation 50-80%, complains sometimes has moderate effort, needs encouragement, tends to break game rules, occasionally disrespectful to other students, 2 points. Low level <50% participation, effort is lacking, negative attitude, needs frequent encouragement from teacher, plays unsafely (needs supervision), often argues. 1 points. 0 points is possible. Marked after each class, 60 total.
	②	✓
	③	
	④	
	⑤	✓
	⑥	✓
Portfolios	①	Training: keep a log of the body weight training, one for each workout. Marked out of 15, one for each class.
	②	✓
	③	
	④	✓
	⑤	
	⑥	
Others	①	Dress: for each time the student is not in correct uniform, or they will lose a point from their final score.
	②	✓ Dance: If due to corona we need to online classes we will learn a dance via zoom and their effort/participation will be judged as per the sport criteria along with a demonstration when we are back in class.
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
The ideal student will put their best effort into both the warm up and training. Keeping a positive attitude throughout the class and encouraging other students to do their best in volleyball and soccer. They will try to participate with a sincere heart and remain focused through the skill practices and games. They will keep a tidy log of training and make an effort to develop their skills outside of class. They will be on time for class in the correct uniform and help with the setting up or the taking down of sport equipment. They will involve themselves in sport that they are not good at in effort to improve their skills and participate.	The standard student will warm up and train with no extra effort, they will participate in climbing and badminton all the time but with 70% effort. They will be safe in how they set up for volleyball and soccer. They will grasp the concepts of skills that make up both soccer and volleyball and be able to perform them at a modest level.

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 Training – explanation Volleyball – setting up the nets, serving	Lecture and Active Learning	Log training	100
2 /	Training Volleyball – Serving, passing	Lecture and Active Learning	Log training	100
3 /	Training Volleyball – Serving, passing, game rules	Lecture and Active Learning	Log training	100
4 /	Training Volleyball – drills, overhand serve, receiving	Lecture and Active Learning	Log training	100
5 /	Training Volleyball – drills, games	Lecture and Active Learning	Log training	100
6 /	Training Volleyball – drills, games	Lecture and Active Learning	Log training	100
7 /	Training Volleyball – drills, games	Lecture and Active Learning	Log training	100
8 /	Training Volleyball – drills, final demonstration of skills	Lecture and Active Learning	Log training and Volleyball skills	100
9 /	Training Soccer – dribbling, passing	Lecture and Active Learning	Log training	100
10 /	Training Soccer – Dribbling, passing, ball control	Lecture and Active Learning	Log training	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 /	Training Soccer – drills, games	Lecture and Active Learning	Log training	100
12 /	Training Soccer – drills, games	Lecture and Active Learning	Log training	100
13 /	Training Soccer – drills, games	Lecture and Active Learning	Log training	100
14 /	Training Soccer – drills, games	Lecture and Active Learning	Log training	100
15 /	Training Soccer – final demonstration of skills	Lecture and Active Learning	Log training and Soccer skills	100

令和3年度 学習支援計画書

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I		1	507400	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		
1年	小高 有普		白山麓C 101.201				月曜 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		美術、工芸、デザインなどに触れ、芸術分野の知識を深めるとともに感性を高め、芸術による活動を通し、発想力・表現力を養う。手で考えるプロセスによる新たな気づきは、更なる創造性を喚起し、思考の深化の展開を図る。多くの視点からモノ・コトを観察し、組み合わせることで思考バランス感覚の優れた創造性豊かな表現ができることを目標とする。2次元～3次元のビジュアル表現手法による具現化を通して、手で考える基礎的な姿勢を学ぶ。						
2	発想								
3	デザインプロセス								
4									
5									
授業の概要および学習上の助言									
<p>①観察 発想力を高めるために広い視野でものごとを見ることを理解する。</p> <p>②モデルの作成 正確なモデル作成のための姿勢とスキルを目指す。</p> <p>③機能と構造 目的にあった機能を決定し、その機能を満たすための構造が形態に反映されることを理解する。</p> <p>④活用訓練 他者が求めるニーズを探り、機能に変換する。工作スキルを用いてモデルによる提示・伝達訓練を行う。 また、初期発想モデルを用い、他者の要求に対応しているか確認した後、新たな気づきを改良モデルに反映する。</p>									
【教科書および参考書・リザーブブック】									
教科書： 参考書： リザーブブック：									
履修に必要な予備知識や技能									
各自の発想とそれを表現したモデルにより、評価をする。 発想、モデル作成方法など、迷いや不明な点は授業中に質問し解決する。 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	ペーパーモデルを正確に作るための工夫ができる							
②	g	重要な問題点を見つけ出し、価値ある解決策（アイデア）へと変換できる							
③	f	アイデアを形に具現化することができる							
④	g	他者と協働しアイデアを発展させることができる							
⑤	g	様々な角度からものごとを観察し発想することができる							
⑥	d, f, g	「考える」ことや「伝える」には視覚的表現を利用することが重要であることを理解できる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	0	30	30	30	10	0	100
総合力指標	知識を取り込む力	0	0	10	5	0	0	0	15
	思考・推論・創造する力	0	0	5	10	10	0	0	25
	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	15	0	0	35
	学習に取り組む姿勢・意欲	0	0	5	5	5	10	0	25

※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	基礎課題を評価 対象：1回～7回の課題
	②	
	③	
	④	
	⑤	
	⑥	
成果発表 (口頭・実技)	①	モデルを用いたアイデアの具体化を評価 対象：8回～11回の課題
	②	
	③	
	④	
	⑤	
	⑥	
作品	①	改良モデルとアイデア展開を評価 対象：12回～15回
	②	
	③	
	④	
	⑤	
	⑥	
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	
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表現力：正確にモデルを作る事ができる ②着想：様々な角度から観察し、ユーザーが抱える問題点から吟味した後に、価値あるアイデアを発想できる ③応用力：機能と構造が融合し、アイデアを形に具現化することができる ④総合力：コンセプトシートとモデルを用いアイデアを正確に伝える事ができ、更には価値あるアイデア変換へ発展させることができる	①表現力：モデルを作る事ができる ②着想：ユーザーが抱える問題点を理解し、アイデアを発想できる ③応用力：アイデアを形に具現化することができる 他者へアイデアを伝える事ができる ④総合力：コンセプトシートとモデルを用いアイデアを伝える事ができ、他者と協働しアイデアを発展させることができる

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ください。

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 授業の目的と目標を理解する 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	予習： 復習：作業遅延分の実施	20
2 /	観察 視点を変えてモノを見ることを知る 観察をまとめ、合評を行う	講義 写真のまとめ	予習：制作計画のチェック 復習：作業遅延分の実施	30
3 /	構造デザインー基礎① アイデアを形に具現化する（ホールド構造）	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
4 /	構造デザインー基礎① アイデアを形に具現化する（ホールド構造）	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
5 /	構造デザインー基礎② 基礎的なモデルの作成（立方体）	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
6 /	構造デザインー基礎② 基礎的なモデルの作成（立方体）	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
7 /	構造デザインー基礎② 基礎的なモデルの作成（立方体）	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
8 /	コミュニケーションデザイン インタビューを通して情報を収集し、アイデア展開に活かす テーマに添った構造アイデアを図で表現	講義 インタビュー、アイデア出し	予習：制作計画のチェック 復習：作業遅延分の実施	30
9 /	構造デザインー応用① アイデアを形に具現化する	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
10 /	構造デザインー応用① アイデアを形に具現化する	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	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ください。

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 /	構造デザインー応用① アイデアを形に具体化する	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
12 /	構造デザインー応用② プロトタイプ作成によるアイデア検証 個々のモデルを評価し合い改善案を見出す	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
13 /	構造デザインー応用② アドバイスを活かして改善モデルを作成	講義 モデル制作	予習：制作計画のチェック 復習：作業遅延分の実施	30
14 /	構造デザインー応用② アドバイスを活かして改善モデルを作成	講義 モデル制作	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 自分の考えを相手に正確に伝え主張する 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3年度 学習支援計画書

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I		1	507600	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		
1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		グローバル化が活発化する現代、異文化の人々と協働するには、様々な形の表現力が必要となってくる。学生はこの授業で身につける表現力を将来のコミュニケーションに活かすことができるようになる。また、表現力を身につけるため、正しい歌唱やその他のパフォーマンスを人前で恥ずかしがらずに披露できるようにしていく。						
2	獨創性								
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									
<p>毎授業で、学生は豊かな表現力を身につけるため、歌唱、ヒューマンビートボックス、プロのピアニストとのデュオなどを体験し学んでいくことになる。また、発声法、呼吸法、姿勢、振り付けなどの要素も学ぶことになる。人前でパフォーマンスすることは勇気のいることであるが、クラスを一つのコミュニティとしてとらえ、その仲間たちの前で恥ずかしがらずにパフォーマンスすることに挑戦する。クラスメイトのパフォーマンスを鑑賞する際は、敬意を持つことを心掛け、互いに安心できる環境になるよう心掛けることが大切である。批評家の前ではなく、ファンの前でパフォーマンスしている気持ちになることが大切である。</p>									
【教科書および参考書・リザーブドブック】									
教科書： 参考書： リザーブドブック：									
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	人前で恥ずかしがらずにパフォーマンスできるようになる。							
③	i	人前でパフォーマンスする際の表現力を工夫す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敬意をもって鑑賞する態度を養うことができるようになる。							
⑤									
⑥									
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	0	0	50	0	0	50	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	30	0	0	35	65
	学習に取り組む姿勢・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
	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
	②	レ
	③	レ
	④	レ
	⑤	
	⑥	
		<p>30%: 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発表内容の態度、表現力、技術そして伝達力を評価する。</p> <p>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。</p>
		<p>35%: 各授業で学習したパフォーマンスを、一人ずつ発表することになるが、その際の発表態度、表現力そして伝達する力を評価する。</p> <p>15%: 各授業で学習したパフォーマンスを一人ずつ発表することになるが、その際の取り組む姿勢、意欲を評価する。</p>

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
<p>各授業での課題のパフォーマンスで、恥ずかしがらず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。</p> <p>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。</p>	<p>各授業での課題のパフォーマンスを人前で行うこととにたく挑戦することができる。</p> <p>最後の授業での発表会のために、できる限りの努力を行い、とにかく自己表現を用いて人前でパフォーマンスすることに挑戦することができる。</p>

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ください。

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 ／	パフォーマンス理解 発声練習 歌唱に挑戦「Over the Rainbow」	講義、発声、歌唱	パフォーマンスアーツについて理解する	15
2 ／	歌唱の練習 歌唱の発表「Over the rainbow」 歌唱の鑑賞	練習、歌唱、鑑賞	Over the rainbow を歌う	30
3 ／	発声練習 歌唱に挑戦 「Stand by me」	発声、歌唱	発声練習を行う	15
4 ／	歌唱の練習 歌唱の発表「Stand by me」 歌唱の鑑賞	練習、歌唱、鑑賞	Stand by me を歌う	30
5 ／	発声練習 歌唱に挑戦 「I love you」	練習、歌唱、鑑賞	発声練習を行う	15
6 ／	歌唱の練習 歌唱の発表「I love you」 歌唱の鑑賞	練習、歌唱、鑑賞	I love you を歌う	15
7 ／	発声練習 歌唱に挑戦 「Lean on me」	発声、歌唱	発声練習を行う	15
8 ／	歌唱の練習 歌唱の発表「Lean on me」 歌唱の鑑賞	練習、発表、鑑賞	パフォーマンス発表の準備と練習	120
9 ／	ヒューマンビートボックス理解 ヒューマンビートボックス鑑賞	講義、鑑賞		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 ヒューマンビートボックスの鑑賞	練習、実演、鑑賞		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)
11 /	発声練習 歌唱に挑戦 「Can' t take my eyes off you」	発声、歌唱	発声練習を行う	15
12 /	歌唱の練習 歌唱の発表 歌唱の鑑賞 「Can' t take my eyes off you」	練習、歌唱、鑑賞	「Can' t take my eyes off you」	15
13 /	ピアノ演奏理解 ピアノ演奏鑑賞	講義、鑑賞	ピアニストについて理解する	15
14 /	練習の課題曲をピアニストとデュオ練習 デュオ発表	練習、実演、鑑賞	次回の課題曲を聴く	15
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

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Engineering Design IA	2	507800	First	Experiment/Practice Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
1	MATSUSHITA, Omihito / OTSUKA Sakuichi / TAN, Kah Keng / WOHLFARTH Brandon	Hakusanroku C 101.201			Mon – Fri 4:30 - 5:30 pm				
Course Objectives									
Keywords (10.5pt)		Learning Objectives (10.5pt)							
1	Project-based learning	In this class, the students will work on project-based learning activities for finding problems and creating solutions in their daily life and environment. The student groups will practice the design process and methods in their projects. They will also learn basic knowledge and methods to make quick prototypes of their ideas as well. Through making ideas into shapes and sharing them with others, the students will enjoy value creation.							
2	Finding problems								
3	Creating solutions								
4	Quick prototypes								
5	Value Creation								
Course Description and Expectations for Students (10.5pt)									
<p>The class consists of the following phases: Phase 1: Understanding the design process. Phase 2: Introduction to prototyping tools and methods. Phase 3: Individual and group projects for problem solving activities: Research, Define, Ideate, Create, and Evaluate.</p> <p>Advice on taking this class</p> <ul style="list-style-type: none"> - Students must submit all assignments to pass this course. - Act with appropriate manners and behaviors as important aspects of conducting research. - Submit all the 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. - There will be no exam in this class. - The class is conducted 2 sessions in a row. - Check Manaba often and download all files needed for the lessons. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Reference books: Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a, g	Students will be able to understand the design process to create products and services.							
②	a, g	Students will be able to work based on the design thinking mindsets.							
③	a, f	Students will be able to make tangible prototyping forms and convey their main ideas using them.							
④	d, e, g	Students will be able to generate and improve ideas through multiple iteration processes.							
⑤	h	Students will be able to collect and analyze the information, and they can define a problem.							
⑥	I	Students will be able to show their attitude to reflect on their own work objectively.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	15	30	50	5	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	5	5	15	1	0	26
	Ability to think, reason and create	0	0	5	5	15	1	0	26
	Collaboration and leadership	0	0	2	10	5	1	0	18
	Announcement / Expression / Communication	0	0	2	10	15	1	0	28
	Attitude and motivation for learning	0	0	1	0	0	1	0	2

* 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 will be submitted in written forms including idea sketches, specification sheet, and any other styles of forms about the projects. The format of the report will be announced by the instructors depending on the activities.	
	②		✓
	③		
	④		
	⑤		✓
	⑥		✓
Presentations	①	Students will give oral progress and final reports about their projects. The format of the presentations will be announced by instructors, such as slides, posters, videos, and/or any other styles. Teachers will grade the presentations on content and presentation etiquette. Rubric will be provided.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Works	①	The format of works can be the physical prototypes of solutions, its iteration process, and other styles of visual aids. The format will be announced by the instructors.	
	②		
	③		✓
	④		✓
	⑤		✓
	⑥		
Portfolios	①	Students will enter weekly portfolio self-reflection in Manaba.	
	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)
<ul style="list-style-type: none"> - Student can define an appropriate problem statement logically based on their research data. - Student can propose creative, feasible, and appropriate solutions. - Students can make meaningful and effective prototypes of their solutions. - Students can effectively work together with the team for a project. 	<ul style="list-style-type: none"> - Student can define a problem statement based on their research data. - Student can propose appropriate solutions. - Students can make tangible prototypes of their 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 CDIO contexts and Design Thinking mindsets	Lecture and group work	Prepare as instructed	
2 /	Design Process - Mini design project work Individual Design Project theme introduction	Lecture and pair work	Finish class assignments and reflection	20
3 /	Idea Sketching - Expressing ideas visually - Materials and Specifications	Lecture and individual /group work	Prepare as instructed	15
4 /		Lecture and individual /group work	Finish class assignments and reflection	20
5 /	Rapid Prototyping Tools - Understand the basic functions of design software	Lecture. Individual hands-on lessons to create digital data for fabrication.	Prepare as instructed	15
6 /	- Create digital data for digital fabrication tools: Laser Cutting	Lecture. Individual hands-on lessons to create digital data for fabrication.	Finish class assignments and reflection	20
7 /	Understand the basic use of machine tools - Understand the effectiveness and risk of machining	Lecture. Individual hands-on lessons for machining.	Prepare as instructed	15
8 /		Lecture. Individual hands-on lessons for machining.	Finish class assignments and reflection	20
9 /	Topic Research and Analysis - Understand users Target user portfolio	Lecture and individual practice	Prepare as instructed	15
10 /		Lecture and individual practice	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 /	Idea Generation and sketching - Target user portfolio - Define a problem statement and generate multiple ideas as solutions	Lecture and Presentation	Prepare as instructed	15
12 /	- Introduction of specification sheet	Lecture and Presentation	Finish class assignments and reflection	20
13 /	Idea Presentation and Peer Review session - User Portfolio - Problem Statement - Idea sketch	Lecture and Presentation	Prepare as instructed	15
14 /		Lecture and Presentation	Finish class assignments and reflection	20
15 /	Idea development and Prototyping Plan review - Improve the idea for quick prototyping - Specification sheet	Lecture and Individual practice	Prepare as instructed	15
16 /		Lecture and Individual practice	Finish class assignments and reflection	20
17 /	Quick Prototyping Materials and Specification	Lecture and Individual practice	Prepare as instructed	15
18 /		Lecture and Individual practice	Finish class assignments and reflection	20
19 /	Quick Prototyping Review - Specification details - Material selection	- Lecture and Individual practice - Presentation	Prepare as instructed	15
20 /		- Lecture and Individual practice - Presentation	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 /	Prototyping and iteration 1 - Specification sheet - Material selection Final Presentation Preparation	Lecture and Individual practice	Prepare as instructed	15
22 /	Poster layout and information	Lecture and Individual practice	Finish class assignments and reflection	20
23 /	Prototyping and iteration 2 Poster Presentation Preparation - Prototyping iteration - Poster layout and information	Lecture and Individual practice	Prepare as instructed	15
24 /		Lecture and Individual practice	Finish class assignments and reflection	20
25 /	Prototyping and iteration 3 Poster Presentation Preparation - Prototyping iteration - Poster layout and information	Lecture and Individual practice	Prepare as instructed	15
26 /		Lecture and Individual practice	Finish class assignments and reflection	20
27 /	Prototyping and iteration 4 Poster Presentation Preparation - Prototyping iteration - Poster layout and information	Lecture and Individual practice	Prepare as instructed	15
28 /		Lecture and Individual practice	Finish class assignments and reflection	20
29 /	Final Poster Presentation and Reflection: - Present how their refined ideas and prototypes solve a problem	Presentation	Prepare for the presentation	60
30 /	- Self-reflection and realizing the outcome of the activity from the portfolio entries	Self-reflection	Finish class assignments and reflection	

令和3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 必修	日本語IA	5	505600	前学期	講義／履修
対象学年	担当教員名	居室	電子メール I D		オフィスアワー
1年	札幌 寛子	白山麓C 101.201			木曜 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	日本語	キャンパスでの一般的な日常会話ができるようになるために、日本語の初級レベルの文型や語彙を習得する。また、学生の出身国のようすを紹介したり、クラスメートや教職員への調査なども行ったりして、その結果を記事にする新聞プロジェクトに取り組む。
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

週5回の授業のうち、4回は総合テキストを用いた学習を行う。
 残りの1回は、別セッションの学生と協力して、日本語での新聞記事作成活動を行う。

総合テキストを用いた授業において最初の2週間は、既習内容を復習する。その後、新出文型や語彙を学び、4技能（話す・聞く・読む・書く）に渡る実践的な練習を行う。

教室で学習した語彙や表現を日常生活の中でも積極的に活用して、より自然な文脈での日本語使用に慣れるように努めることが、言語習得の早道である。

【教科書および参考書・リザーブドブック】

教科書：坂野永理他著『初級日本語げんきI [第3版]』Japan Times, 2020
 同著 『初級日本語げんきI ワークブックI [第3版]』Japan Times, 2020
 参考書：
 リザーブドブック：なし

履修に必要な予備知識や技能

特になし

No.	教育目標 (DP) (記号表記)	学生が達成すべき行動目標
①	e,i	ひらがな、カタカナ、漢字を適切に用いることができる。
②	e,i	促音や拗音も含めた日本語音声を聞き分けることができる。
③	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。
④	e,i	テキストで学んだ文型や語彙を用いて話したり書いたりして、大まかに自分の意志を伝えることができる。
⑤	e,i	挨拶表現など、日本での習慣的な基本ルールを理解し、行動で表現できる。
⑥	g	新聞記事で伝えたい内容を、適切な語彙や文型を用いて、表現できる。

達成度評価

評価方法		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
指標と評価割合									
総合評価割合		0	80	0	0	20	0	0	100
総合力指標	知識を取り込む力	0	40	0	0	10	0	0	50
	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	40	0	0	10	0	0	50
	学習に取り組む姿勢・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
	②	レ
	③	レ
	④	レ
	⑤	レ
	⑥	
レポート	①	
	②	
	③	
	④	
	⑤	
	⑥	
成果発表 (口頭・実技)	①	
	②	
	③	
	④	
	⑤	
	⑥	
作品	①	
	②	
	③	レ
	④	レ
	⑤	
	⑥	レ
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
<p>助詞を正しく使って、学習した文型で文を産出できる。</p> <p>自分が言いたいことを、辞書も活用しながら、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。また、接続詞を使って、1段落程度の文章にまとめることができる。</p>	<p>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。</p> <p>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。</p>

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、Good Work!」：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ください。

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 /	自己紹介 Self Introductions 授業説明 Class Orientation Classroom Expressions Numbers	講義・演習 Lecture・Practice オンライン(Zoom)	Classroom Expressionsを覚える Memorize Classroom Expressions 文法ワークブックGrammar Workbook (Lesson 1)	30
2 /	manabaの使い方How to use “manaba” Age Time Lesson 2 こそあどexpressions 会話(かいわ) Dialogue	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson 2 #1~4)	30
3 /	橋谷君との自己紹介 Meeting your classmate 新聞づくり Newspaper Project#1-1 4回の大きなテーマ Choosing 4 Themes 第1号の記事のトピック（できれば一人2~3トピック） Choosing 2~3 topics for the 1 st issue	講義・演習 Lecture・Practice オンライン(Zoom)+対面	記事作成 Article writing	30
4 /	Lesson 2 かぞくfamily ～です/では(じゃ)ありません・じゃないです (L.4 でした・ではありませんでした・じゃなかったです) Lesson 2 Rd/Wr かたかなReview	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson2 #5~7) 文法ワークブックのかたかな Lesson2 Katakana in Gr.WB	30
5 /	かたかなReview L.2 まとめれのれんしゅう L.3 どうしVerb groups	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson3 #1)	30
6 /	L.3 ～ます/ません (L.4 ました/ませんでした・なかったです) ～ますか/ませんか L.4 日・週・月・年days/weeks/months/years	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson3 #2~5)	30
7 /	L.3 じょし Particles (placeに/へ、timeに、を、で) 会話(かいわ) Dialogue L.3 Rd. Wr. 漢字(かんじ) Kanji	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson3 #6~8) 文法ワークブックの漢字L.3 (Lesson 3 Kanji in Gr.WB)	30
8 /	新聞づくり Newspaper Project#1-2 記事#1-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) +対面	記事作成 Article writing	30
9 /	L.4 Location words あります/います	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson4 #1-4)	30
10 /	L.4 会話(かいわ) Dialogue L.4 復習(ふくしゅう) Review 文法WB Grammar WB (L.4 #8~9) 日本の休日Japanese National Holidays	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook (Lesson4 #5~7)	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)
11 /	Lesson 5 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
12 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン (Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
13 /	新聞づくり Newspaper Project#1-3 記事#1-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン (Zoom) +対面	記事作成 Article writing	30
14 /	Vocabulary Quiz #1 (Lesson 5) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	文法ワークブックGrammar Workbook 単語クイズの復習Review on Voc Q.	30
15 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン (Zoom)	復習Review	30
16 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン (Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
17 /	Kanji Quiz #1 (Lesson 5) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	復習Review	30
18 /	新聞づくり Newspaper Project#1-4 記事#1-3の情報検索と記事原稿作成 全体の原稿チェック	講義・演習 Lecture・Practice オンライン (Zoom) +対面	記事作成 Article writing	30
19 /	Lesson 6 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
20 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン (Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30

授業明細表

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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)
21 /	Vocabulary Quiz #2 (Lesson 6) 文法 (ぶんぼう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
22 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
23 /	新聞づくり Newspaper Project#2-1 記事#2-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) +対面	記事作成 Article writing	30
24 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
25 /	Kanji Quiz #2 (Lesson 6) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review テスト準備Study for Test	30
26 /	Test 1 (Lessons 5-6) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return オンライン(Zoom)	復習Review	30
27 /	Lesson 7 単語 (たんご) 会話 (かいわ) 文法 (ぶんぼう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン(Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
28 /	新聞づくり Newspaper Project#2-2 記事#2-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) +対面	記事作成 Article writing	30
29 /	文法 (ぶんぼう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
30 /	Vocabulary Quiz #3 (Lesson 7) 文法 (ぶんぼう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	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、Good Work!」：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ってください。
 ※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ください。

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)
31 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
32 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
33 /	新聞づくり Newspaper Project#2-3 記事#2-3の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
34 /	Kanji Quiz #3 (Lesson 7) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review	30
35 /	Lesson 8 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン(Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
36 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
37 /	Vocabulary Quiz #4 (Lesson8) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
38 /	新聞づくり Newspaper Project#2-4 記事#2-4の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
39 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
40 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30

授業明細表

CLIP学習プロセスについて

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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)
41 /	Kanji Quiz #4 (Lesson 8) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review テスト準備Study for Test	30
42 /	Test 2 (Lessons 7-8) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return オンライン(Zoom)	復習Review	30
43 /	新聞づくり Newspaper Project#3-1 記事#3-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
44 /	Lesson 9 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン(Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
45 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
46 /	Vocabulary Quiz #5 (Lesson 9) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
47 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
48 /	新聞づくり Newspaper Project#3-2 記事#3-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
49 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
50 /	Kanji Quiz #5 (Lesson 9) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review	30

授業明細表

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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)
51 /	Lesson 10 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
52 /	文法 (ぶんぽう) 2 練習 (れんしゅう) 2 漢字 (かんじ)	講義・演習 Lecture・Practice オンライン (Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc. Quiz	30
53 /	新聞づくり Newspaper Project #3-3 記事#3-3の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン (Zoom) + 対面	記事作成 Article writing	30
54 /	Vocabulary Quiz #6 (Lesson 10) 文法 (ぶんぽう) 3 練習 (れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook (Cont.)	30
55 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン (Zoom)	復習Review	30
56 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン (Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
57 /	Kanji Quiz #6 (Lesson 10) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン (Zoom)	復習Review	30
58 /	新聞づくり Newspaper Project #3-4 記事#3-4の情報検索と記事原稿作成 全体の原稿チェック	演習 Practice オンライン (Zoom) + 対面	記事作成 Article writing テスト #3準備 Prepare for Test 3	30
59 /	Test 3 (Lessons9-10) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return オンライン (Zoom)	復習Review	30
60 /	Lesson 11 単語 (たんご) 会話 (かいわ) 文法 (ぶんぽう) 1 練習 (れんしゅう) 1	講義・演習 Lecture・Practice オンライン (Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	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)
61 /	文法(ぶんぽう) 2 練習(れんしゅう) 2 漢字(かんじ)	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
62 /	Vocabulary Quiz #7 (Lesson 11) 文法(ぶんぽう) 3 練習(れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	30
63 /	新聞づくり Newspaper Project #4-1 記事#4-1の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
64 /	復習(ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
65 /	Useful Expression 書く練習(かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習(かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
66 /	Kanji Quiz #7 (Lesson 11) 読む練習(よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review	30
67 /	新聞づくり Newspaper Project #4-2 記事#4-2の情報検索と記事原稿作成 できたところまでの原稿チェック	演習 Practice オンライン(Zoom) + 対面	記事作成 Article writing	30
68 /	Lesson 12 単語(たんご) 会話(かいわ) 文法(ぶんぽう) 1 練習(れんしゅう) 1	講義・演習 Lecture・Practice オンライン(Zoom)	単語の復習Voc. Review 文法ワークブック Grammar Workbook	30
69 /	文法(ぶんぽう) 2 練習(れんしゅう) 2 漢字(かんじ)	講義・演習 Lecture・Practice オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブックKanji Workbook 単語クイズ準備Study for Voc.Quiz	30
70 /	Vocabulary Quiz #8 (Lesson 12) 文法(ぶんぽう) 3 練習(れんしゅう) 3	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	文法ワークブックGrammar Workbook 漢字ワークブック(つづき)Kanji Workbook(Cont.)	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)
71 /	復習 (ふくしゅう Review)	講義・演習 Lecture・Practice オンライン(Zoom)	復習Review	30
72 /	Useful Expression 書く練習 (かくれんしゅう)	講義・演習 Lecture・Practice オンライン(Zoom)	書く練習 (かくれんしゅう) つづき Kaku Renshu (cont.) 漢字クイズ準備Study for Kanji Quiz	30
73 /	Kanji Quiz #8 (Lesson 12) 読む練習 (よむれんしゅう)	講義・演習 Lecture・Practice クイズ実施・採点・返却 Quiz, Grading & Return オンライン(Zoom)	復習Review テスト準備Study for Test	30
74 /	Test 4 (Lessons 11-12) ふりかえり (Review)	テスト実施・採点・返却 Test, Grading & Return オンライン(Zoom)	復習Review	30
75 /	新聞づくり Newspaper Project #4-3 記事#4-3の情報検索と記事原稿作成 全体の原稿チェック	演習 Practice オンライン(Zoom) +対面		

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept.S Specialized Required		Engineering Context 1A		1	508700	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	KODAKA Arihiro, MATSUSHITA Omihito, TAN, Kah Kegn, TAYLOR, James		HakusanrokuC 101.201				M-F. 16:30-17:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Engineering Ethics		- Think and act by themselves through ethical behavioral norms. - Act based on the various influences that science and technology has on society - Understand how to see things and how to draw correctly. - Draw in freehand from an engineer's point of view. - Convey the best idea through discussion with others.						
2	Ethical Code of Conduct								
3	Influence of Science and Technology								
4	Communication Drawing								
5									
Course Description and Expectations for Students (10.5pt)									
Global innovators need to understand the situation and background of users. They must also be able to judge and predict what kind of services are required and provide the services in an appropriate manner. In this course, students will learn about current technology trends and the importance of an ethical code of conduct for engineers with a focus on influencing society, nature and technology ethically. Also, students will learn communication drawing skills that will help them convey their ideas when exchanging thoughts and opinions about their learning and experiences. After learning the basic communication drawing skills, students will have activities to generate ideas with added values to solve a problem.									
Advice on taking this course: •Submit all the assignments on time. There will be penalty points if you are late to submit your assignments. •Students must submit all assignments to pass this course. •Enter a portfolio entry for self-reflection in Manaba. •There will be no final exam in this class.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Reference books: Reserved books: Idea Drawing 2 nd Edition.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b	Students will be able to understand the importance of thinking and acting by themselves through learning of ethical behavioral norms required of engineers.							
②	h	Students will be able to understand the importance of having insight into the various influences that science and technology has on society.							
③	f	Students will be able to understand how to see things and how to draw correctly.							
④	g	Students will be able to draw in freehand from an engineer's point of view.							
⑤	f	Students will be able to show and tell the best idea through discussion with others.							
⑥	i	Students will be able to show their attitude 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	10	20	10	55	5	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	5	10	2	15	0	0	32
	Ability to think, reason and create	0	5	5	2	15	0	0	27
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	6	25	0	0	36
	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	
	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	✓
	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	Description of Standard Achievement
1) Students can show deeper consideration to the ethical behavioral norms.	1) Students can show consideration to the ethical behavioral norms.
2) Knowledge and skills: Students can understand the drawing knowledge and draw in freehand using simple lines.	2) Knowledge and skills: Students can understand the drawing knowledge and draw in freehand.
3) Application: Students can express ideas by drawing using compound shapes and their functions.	3) Application: Students can express ideas by drawing using simple shapes and functions.
4) Communication: Students can express tangible and intangible ideas to anyone by drawing.	4) Communication: Students can express tangible and intangible ideas to people who have background knowledge and interests by drawing.
5) Collective capabilities: Students can express ideas generated by themselves or others using simple drawing and develop the ideas utilizing the drawing.	5) Collective capabilities: Students can express ideas and advice made by themselves or others using drawing. They can add supplementary information to develop ideas to some extent by drawing.

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 Ethics in general Documentation and copyright	Lecture and exercise	Finish class assignments and reflection	30
2 /	Ethics in Technology Speaking activity preparation	Lecture and research	Prepare as instructed. Finish class assignments and reflection	30
3 /	Speaking activity Ethics in business Documentation and copyright quiz	Lecture and exercise Quiz	Prepare as instructed. Finish class assignments	20
4 /	Understand the visualization of ideas in freehand and its effectiveness Basic drawing exercise: Drawing conditions that make communication happen Basics Drawing 1: Perspective projection	Guidance and Lecture Exercise	Prepare as instructed. Finish class assignments	20
5 /	Basics of Drawing 2: Consider the positional relationship between an observer and an object	Guidance and Lecture Exercise	Prepare as instructed. Finish class assignments	20
6 /	Basics of Drawing 3: Learn the regularity of shapes when changing the view points.	Lecture and exercise	Prepare as instructed. Finish class assignments	20
7 /	Basics of Drawing 4: Understand that the basic cube has equal measurements and remember the ratio of shapes	Lecture and exercise	Prepare as instructed. Finish class assignments	20
8 /	Basics of Drawing 5: Draw a three dimensional shape which has equal measurements utilizing a cube	Lecture and exercise	Prepare as instructed. Finish class assignments	20
9 /	Basics of Drawing 6: Learn shade and shadow which determines a shape and the position of a solid object.	Lecture and exercise	Prepare as instructed. Finish class assignments	20
10 /	Comprehensive Learning (report) Learn shape of general products Understand many cuboids, which have complex outlines, consist of simple cuboids. Think and draw complex cuboids	Lecture and exercise	Prepare as instructed. Finish class assignments	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 /	<ul style="list-style-type: none"> - Expression methods of a human body, phenomenon, and reaction - Learn a way to express human body simply 	Lecture and exercise	<ul style="list-style-type: none"> - Prepare as instructed. - Finish class assignments 	20
12 /	<ul style="list-style-type: none"> - Comprehensive Learning 1 - Think about a solution to a problem. 	Group activity		
13 /	<ul style="list-style-type: none"> - Comprehensive Learning 2 - Create an informational diagram to convey an idea - Think about ethically positive and negative effects about your idea. 	Lecture and exercise	<ul style="list-style-type: none"> - Prepare as instructed. - Finish class assignments 	20
14 /	<ul style="list-style-type: none"> - Comprehensive Learning 3 - Create an informational diagram to convey an idea - Think about ethically positive and negative effects about your idea. 	Lecture and exercise	<ul style="list-style-type: none"> - Prepare as instructed. - Finish reflection 	30
15 /	<ul style="list-style-type: none"> - Comprehensive Learning 4 - Presentation and critique - Reflection 	Presentation and reflection	<ul style="list-style-type: none"> - Prepare as instructed. - Finish class assignments and reflection 	60

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Engineering Context IB	1	508800	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	YAMAZAKI, Shuntaro ITO, Meguru OGAWA, Hayato	Hakusanroku C:101.201			Thu. 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Energy	Students will learn the importance of ethics based on the pros and cons of technology through classes on the technical and social backgrounds in the energy field. Students will learn how to write a report, how to think logically, and then how to debate. The students then conduct a debate on the subject of energy and acquire practical skills in the debate.							
2	Reference survey								
3	Technical report writing								
4	Logical thinking								
5	Debate								
Course Description and Expectations for Students (10.5pt)									
<p>In order for our students to become innovators, they need the ability to gain insight into the essence of a problem and to propose/implement appropriate solutions to it. Therefore, in this class, understanding the technical circumstances surrounding us today is key. Moreover, understanding the problems with the theme of energy and power generation born out of these circumstances in order to familiarize the students with engineering literacy. The learning of the skills to create technical reports by surveying reference on topics of energy is required. Learning logical thinking methods, debate methods with the use of sources and master practical skills.</p> <p>Advice on taking this course:</p> <ul style="list-style-type: none"> •Have laptops or notebooks ready before class starts. •Check Manaba often and download all files needed for today's lesson. •Submit assignments on time. •Be sure to study and prepare sufficiently for debate. •Enter a portfolio for self-records and review. •Feel free to ask questions during office hour. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Engineering ethics and communication skills to be learned in Engineering Context IA									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	abhi	Students will be able to understand the technical and social background of the energy field relating electric power system.							
②	agi	Students will be able to gather necessary information through reference research.							
③	fi	Students will be able to understand the technical writing skill for clear technology reports							
④	fi	Students will be able to understand the logical thinking method							
⑤	cdf	Students will be able to understand and practice in the debate method.							
⑥	i	Students will be able to record their portfolio and look back on themselves.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	0	50	40	0	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	10	0	0	0	0	10
	Ability to think, reason and create	0	0	30	10	0	0	0	40
	Collaboration and leadership	0	0	0	10	0	0	0	10
	Announcement / Expression / Communication	0	0	0	20	0	0	0	20
	Attitude and motivation for learning	0	0	10	0	0	10	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	✓
	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)
<p>Students understand the technical and social background of the energy field relating electric power system.</p> <p>Students are able to gather necessary information through reference research.</p> <p>Students are able to understand the technical writing skill for clear technology reports.</p> <p>Students are able to understand the logical thinking method.</p> <p>Students are able to understand and practice in the debate method.</p> <p>Students are able to record their portfolio and look back on themselves.</p>	<p>Students understand the key issues in the energy field relating electric power system.</p> <p>Students are able to gather necessary information through reference research.</p> <p>Students are able to understand the technical writing skill for clear technology reports.</p> <p>Students are able to understand the logical thinking method.</p> <p>Students are able to understand and practice in the debate method.</p> <p>Students are able to record their portfolio and look back on themselves.</p>

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 /	Engineering Literacy -Energy- Develop eyes to see pros and cons of technology regarding energy.	Introducing the latest trends and future issues of the energy industry based on the basic energy plan of Japan		
2 /	Based on climate change countermeasures, student can understand Japanese energy policy centered on electric power grid. Student can gather information from references and websites, and summarize assignment.	Introducing the basic technologies for various power generation and utilization of unstable renewable energy		
3 /		Visit the Tedorigawa Daiichi Power Station and introduce the large hydro power plant		
4 /				
5 /				
6 /				
7 /			Report of the site visit.	30
8 /	Technical report writing Student can investigate the literature and summarize the results as a report	Learning reference survey method and citation method using Web and books		
9 /		Learning and practicing how to write technical reports		
10 /	Logical thinking Through exercises, student can isolate problems, discover essence, and consider solutions.	Learning and exercises on finding the essence of the problem and considering solutions to it.		

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 /	Logical thinking Through exercises, student can isolate problems, discover essence, and consider solutions.	Learning and exercises on finding the essence of the problem and considering solutions to it.		
12 /	Debate Understand the debate method. Student can actually conduct the debate.	<ul style="list-style-type: none"> · Introducing basic debate method · Prepare research for the topic of energy field and actually carry out debate. 	Subject of the debate	30
13 /			Subject of the debate	30
14 /			Subject of the debate	30
15 /				

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Computer Skills IA		1	509500	First	Exercises Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	ITO, Meguru KODAKA, Arihiro TAN, Kah Keng		Hakusanroku C:101.201				M-F. 16:30-17:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	3D modeling		In modern days, computers are used everywhere and computational thinking is an essential for engineers in all fields. In this course, students will be able to learn the basic ability to use computer. In particular, students will cultivate the ability to create documents, 3d modeling, and image processing. In addition, students will learn the concept of statistics and probability using Excel.						
2	Office								
3	Statistics								
4	Image processing								
5									
Course Description and Expectations for Students (10.5pt)									
<p>In this course,</p> <ul style="list-style-type: none"> • There is no final examination. • All assignments must be submitted. • Late assignments may reduce students' score <p>Advices for students:</p> <ul style="list-style-type: none"> • Involve in class activity. Do not be shy to ask some questions. • Take care to stick to the submission date of all assignments. • Write what you achieved in this class in the portfolio for your own record and review. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks:</p> <p>Reference books: Excel でやさしく学ぶ統計解析 2019 石村貞夫、劉晨、石村友二郎著 (東京図書)、完全独習統計学入門 (ダイヤモンド社)</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Fundamental operation of computer (left click, right click, double click, drag and drop, shutdown, start up, etc.)</p> <p>Fundamental usage of internet browser (search, URL, etc.)</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	i	Students will be able to learn how to use computers.							
②	h,i	Students will be able to use Microsoft Office and analyze data statistically.							
③	f,h,i	Students will be able to create 3D model using Autodesk Fusion 360.							
④	f,g,h,i	Students will be able to create and edit images using Adobe Photoshop.							
⑤	f,g,h,i	Students will be able to draw and create illustration using Adobe Illustrator.							
⑥	i	Students will be able to review what you achieved using Portfolio system.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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	✓
	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)
<p>Students are able to understand of capabilities of the computer and respond appropriately to the computer troubles.</p> <p>Students are able to use Word, Excel, PowerPoint, Photoshop, Illustrator, and Fusion 360 depending on the situation very well.</p> <p>Students are able to create an impressive work in other classes and projects.</p>	<p>Students are able to use and manage computer.</p> <p>Students are able to use Word, Excel, PowerPoint, Photoshop, Illustrator, and Fusion 360 depending on the situation.</p> <p>Students are able to apply the learned skills to other classes and projects.</p>

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 /	<ul style="list-style-type: none"> • Guidance • PC set-up • Fusion 360 Introduction of Fusion 360	Explanation of this course Lecture and practice of Fusion 360	Finishing set-up of PC Preparation based on instruction	15
2 /	<ul style="list-style-type: none"> • Fusion 360 Understanding basic operation of Fusion 360	Lecture and practice of Fusion 360	Finishing assignments of this class	25
3 /	<ul style="list-style-type: none"> • PowerPoint Creating complex models	Lecture and practice of PowerPoint	Finishing assignments of this class Preparation based on instruction	25
4 /	<ul style="list-style-type: none"> • Excel Reviewing how to use Excel	Lecture and practice of Excel	Finishing assignments of this class Preparation based on instruction	25
5 /	<ul style="list-style-type: none"> • Excel Understanding basic statistic from data	Lecture and practice of Excel	Finishing assignments of this class Preparation based on instruction	25
6 /	<ul style="list-style-type: none"> • Excel Understanding normal distribution from data	Lecture and practice of Excel	Finishing assignments of this class Preparation based on instruction	25
7 /	<ul style="list-style-type: none"> • Word Reviewing how to use Word	Lecture and practice of Word	Finishing assignments of this class Preparation based on instruction	25
8 /	<ul style="list-style-type: none"> • Photoshop Understanding image repairing and resolution	Lecture and practice of Photoshop	Finishing assignments of this class Preparation based on instruction	25
9 /	<ul style="list-style-type: none"> • Photoshop Understanding composition of images	Lecture and practice of Photoshop	Finishing assignments of this class Preparation based on instruction	25
10 /	<ul style="list-style-type: none"> • Photoshop Understanding composition of images	Lecture and practice of Photoshop	Finishing assignments of this class Preparation based on instruction	25

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 /	• Illustrator Understanding Bezier curve	Lecture and practice of Illustrator	Finishing assignments of this class Preparation based on instruction	25
12 /	• Illustrator Understanding basic operation to create figures	Lecture and practice of Illustrator	Finishing assignments of this class Preparation based on instruction	25
13 /	• Illustrator Understanding image trace	Lecture and practice of Illustrator	Finishing assignments of this class Preparation based on instruction	25
14 /	• Illustrator Create printing data	Lecture and practice of Illustrator	Finishing assignments of this class Preparation based on instruction	25
15 /	• Illustrator Creating printing data and review this class	Lecture and practice of Illustrator	Finishing assignments of this class Preparation based on instruction	25

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Computer Skills IB		1	509600	Second	Exercises Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
1	SONGER, Robert / OTSUKA, Sakuichi		HakusanrokuC :101.201				16:30 – 17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	HTML		The Internet is one of the single most important technologies of our age. Global Innovators must be aware of how to use the Internet to their advantage for communicating their works to the world. HTML and CSS are two of the foundational technologies behind websites, which students will learn for expanding their portfolio in a personalized way that appeals to them.						
2	CSS								
3	Web Design								
4	Version Control Systems								
5									
Course Description and Expectations for Students (10.5pt)									
<p>Innovative ideas and personal talents must be communicated to the world in order to be effective. The Internet has made this possible for anybody to do with the ease in which a person can create their own webpages. This class will guide students towards the ultimate goal of launching a personal portfolio website that showcases their projects and creations. Students will design their own original website and organize its contents with materials from projects and assignments. This will allow students to visualize the outcomes of their courses and express themselves through how they choose to represent their own growth and learning.</p> <p>It takes at least 100 hours of active learning to become more than a beginner. There is a lot to learn about HTML & CSS, so it may feel overwhelming at times. Learn at your own pace and be patient with yourself. Focus on one thing at a time and things will start to come together. There are plenty of resources for learning web development on the Internet, so always keep an eye out for new or interesting things.</p> <p>NOTE: The textbook lessons are only available on the website below. All assigned lessons use this online content.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: “Learn to Code HTML and CSS: Develop and Style Websites”, Online: https://learn.shayhowe.com/ Reference books: None Reserved books: None									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Students must be able to use the basic functions of a PC. This includes touch typing, using the file system, and installing software. They must also be able to navigate websites in a browser and use the spelling checker feature in Microsoft Word. In addition, students must be able to use the online Portfolio system to review their previous classes and projects.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a	Acquire practical knowledge about HTML and CSS.							
②	f, g	Understand the importance of design and layout to communicate effectively.							
③	a, i	Foster a good attitude for facing a challenging learning situation.							
④	a, i	Develop skill for inquiring about unfamiliar technologies.							
⑤	e, f	Express oneself through designing a personal website.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	30	0	0	40	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	10	0	0	10	0	0	30
	Ability to think, reason and create	10	10	0	0	10	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	10	0	0	10
	Attitude and motivation for learning	10	10	0	0	10	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	✓	There is one exam at the end of the semester. It will include all the topics covered during the semester unless otherwise stated by the teacher.
	②		
	③	✓	
	④	✓	
	⑤		
	⑥		
Quizzes	①	✓	Quizzes will give students an opportunity to check their understanding about the reading assignments. Each quiz will include random topical questions from the textbook and students will be able to try the quiz multiple times. All quizzes will also be available to review before the final exam at the end of the semester.
	②		
	③	✓	
	④	✓	
	⑤		
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	Works are digitally created files that are uploaded at the time of submission. They show a student's practical skill with the material covered during class. Completing each work will contribute to a student's preparation for creating a personal website at the end of the course.
	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)
<ul style="list-style-type: none"> ① Choose appropriate elements, classes and ids ② Evaluate a design for ease-of-understanding ③ Eagerly approach assignments with curiosity ④ Explore different resources for learning a technology ⑤ Customize all elements of a personal website 	<ul style="list-style-type: none"> ① Understand about HTML tags and CSS selectors ② Create wireframes of a design ③ Ask questions without whining ④ Learn from somewhere other than the teacher ⑤ Choose a design based on personal preferences

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 Students will receive an introduction to web development, the software we will use, and HTML & CSS	Lecture Discussion Practice	The teacher will announce assignments in class or on Manaba.	30
2 /	Basic HTML & CSS Students will walk through building a basic web page with minimal HTML & CSS.	Lecture Exercise	The teacher will announce assignments in class or on Manaba.	30
3 /	HyperText Markup Language (HTML) Students will explore the meaning of tags for representing content and creating hyperlinks.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
4 /	Cascading Style Sheets (CSS) Students will learn about using selectors, colors, and lengths to style elements of a page.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
5 /	The Box Model Students will practice changing the size, margin, padding, and borders of elements.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
6 /	Positioning Content Students will learn about using display and positioning elements to create columns.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
7 /	Styling Text Students will explore the many ways to change the appearance of text with CSS.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
8 /	Creating Lists Students will practice different types of HTML lists and change their style/position with CSS.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
9 /	Media: Images, Audio, and Video Students will learn the best ways to add and position images and embedded video in HTML pages.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	30
10 /	Organizing Data with Tables Students will explore the purpose, structure, and opportunities for styling data that tables provide.	Lecture Exercises	The teacher will announce assignments in class or on Manaba.	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 /	Portfolio Websites Students will settle their plan and create files for creating a personal portfolio website.	Guidance Practice	The teacher will announce assignments in class or on Manaba.	30
12 /	Publishing on a Server Students will consider issues for publishing online before creating and uploading their portfolio website files.	Lecture Practice	The teacher will announce assignments in class or on Manaba.	30
13 /	Responsive Web Design Students will learn the basic concepts and some examples of designing responsive web pages.	Lecture Guidance Practice Online	The teacher will announce assignments in class or on Manaba.	30
14 /	Recording Changes with Version Control Students will practice updating their online portfolio repositories with changes to their website files.	Lecture Guidance Practice	The teacher will announce assignments in class or on Manaba.	30
15 /	Semester Review Students will review the semester content and catch up on any unfinished assignments.	Guidance Self-Study	The teacher will announce assignments in class or on Manaba.	30
16 /	Final Exam			
17 /	Final Exam Return			

令和3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 必修	国語表現IIA	1	500300	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	読む	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	書く	
3	話す	
4	表現力	
5	思考力	

授業の概要および学習上の助言

■授業概要
 本科目は、国語表現IA、IBの続きを行う。
 具体的な範囲は下記の通り。
 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。
 ・小テストは地道に取り組むこと。

【教科書および参考書・リザーブドブック】

教科書：『国語表現 改定版』教育出版
 参考書：『国語の常識plus』明治書院
 リザーブドブック：

履修に必要な予備知識や技能

- ・「国語表現IA」「国語表現IB」「文学Ⅰ」などを履修し、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		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
指標と評価割合									
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
	学習に取り組む姿勢・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
	②	
	③	
	④	
	⑤	
	⑥	
レポート	①	
	②	レ
	③	レ
	④	レ
	⑤	
	⑥	レ
成果発表 (口頭・実技)	①	
	②	レ
	③	レ
	④	レ
	⑤	レ
	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
<p>同音異義や同訓異字の漢字を常に正確に書くことができる。</p> <p>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。</p> <p>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。</p> <p>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。</p> <p>読み手からの助言を踏まえ、ねばりづよく推敲を重ねることができる。</p> <p>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。</p>	<p>同音異義や同訓異字の習得に積極的に努めることができる。</p> <p>文章の論点や主張を読み取り、要約できる。</p> <p>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。</p> <p>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。</p> <p>読み手からの助言を踏まえ、推敲することができる。</p> <p>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。</p>

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、Good Work!」：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ください。

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。 小論文Ⅱ ・小論文の目的や書式について理解する。	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 /	小論文Ⅱ ・要約の方法について理解する。	小テスト①同音異字の漢字 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
3 /	小論文Ⅱ ・接続詞について理解する。	小テスト②同音異字の漢字 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
4 /	小論文Ⅱ ・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同音異字の漢字 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
5 /	小論文Ⅱ ・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同音異字の漢字 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
6 /	小論文Ⅱ ・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
7 /	小論文Ⅱ ・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。	30
8 /	小論文Ⅱ ・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。	30
9 /	小論文Ⅱ ・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
10 /	小論文Ⅱ ・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

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、Good Work!」：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ってください。
 ※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ください。

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 /	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同訓異義 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
12 /	プレゼンテーションの方法 ・プレゼンテーションのスライドを作成し、発表練習をする。	小テスト⑥同訓異義 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
13 /	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 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
14 /	話し合いの方法 ・ディバートのルールを理解する。 ・自分の立場を決め、根拠となる情報を整理する。	講義と質疑 プリント配布 グループワーク	予習：ディバートについて調べる。 復習：根拠となる情報を集める。	30
15 /	話し合いの方法 ・ディバートを行い、相互評価する。	実技②ディバート プリント配布 グループワーク アンケート実施	予習：ディバートの練習をする。 復習：相互評価を見直す。	30

令和3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 必修	国語表現IIB	1	500400	後学期	講義／履修
対象学年	担当教員名	居室	電子メール I D		オフィスアワー
2年	渦辺 豊	白山麓C: 101.201			月曜 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 話す 2 読む 3 書く 4 伝え合う 5 表現力	自分の意見を確実に伝えて聞き手の共感を得ることができるようになるために、聞き手を惹きつける原稿作成、スピーチ、プレゼンの技法を習得する。国際社会を生きる人間として教養を高め、感性を磨くことができるようになるために、優れたエッセイを読み味わうとともに、自分らしさのある味わい深いエッセイの書き方や、機転が利いた二次創作作品の書き方を習得する。実社会の様々な場面でレイアウトを工夫した告知書類を作成することができるようになるために、メディアの特性を知ってメディア・リテラシーを高め、情報を編集する力を身につける。

授業の概要および学習上の助言

本科目の授業概要は以下の通りである。

テーマ：独創的な意見発表、自分らしさのあるエッセイ、二次創作作品、広告ポスターの作成を通して感性を磨き、教養を高めることで国際社会を生きる人間として求められる資質を身につける。

1. 聞き手を惹きつける原稿作成、スピーチ、プレゼンの技法を身につける。
2. 自分らしさのある味わい深いエッセイ作品を書く文章表現力を身につける。
3. 自分らしさのある機転の利いた二次創作品を書く文章表現力を身につける。
4. レイアウトを工夫した告知書類（広告ポスター等）を作成する技法を身につける。
5. 日本語検定3級程度以上の漢字、表記の力を身につける。

【教科書および参考書・リザーブドブック】

教科書：国語表現 改訂版（教育出版）

参考書：文章の書き方（KIT-LC・WC）文章表現ハンドブック（KIT-LC・WC）[三訂版]国語の常識plus（明治書院）

リザーブドブック：「新しい国語表記ハンドブック 第八版」

履修に必要な予備知識や技能

日本語検定4級（中学校卒業）～3級（高校卒業）程度の国語能力。

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	聞き手を惹きつけるスピーチ、プレゼンができる。
③	e, f	自分らしさのある味わい深いエッセイ作品を書くことができる。
④	e, f	自分らしさのある機転の利いた二次創作品を書くことができる。
⑤	e, f	レイアウトを工夫した告知書類（広告ポスター等）を作成することができる。
⑥	e, f	日本語検定3級程度以上の国語能力を身につける。

達成度評価

評価方法		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
指標と評価割合									
総合評価割合		0	0	0	0	0	0	0	100
総合力指標	知識を取り込む力	0	50	0	0	0	0	0	50
	思考・推論・創造する力	0	0	0	0	30	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	0	20	0	0	0	20
	学習に取り組む姿勢・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
	②	
	③	
	④	
	⑤	
	⑥	レ
レポート	①	
	②	
	③	
	④	
	⑤	
	⑥	
成果発表 (口頭・実技)	①	
	②	レ
	③	
	④	
	⑤	
	⑥	
作品	①	
	②	
	③	レ
	④	レ
	⑤	レ
	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
<p>小テスト：日本語の漢字、表記に関して、日本語検定2級程度の能力が身についている。</p> <p>レポート：自分らしさのある味わい深いエッセイ作品、自分らしさのある機転の利いた二次創作作品を書くことができる。レイアウトを工夫した視覚効果に優れた広告ポスターを作ることができる。</p> <p>成果報告：意見をまとめて聞き手に確実に伝え、共感を得ることができる。</p>	<p>小テスト：日本語の漢字、表記に関して、日本語検定3級程度の能力が身についている。</p> <p>レポート：自分らしさのあるエッセイ作品、二次創作作品を書くことができる。レイアウトを工夫した広告ポスターを作ることができる。</p> <p>成果報告：意見をまとめて聞き手に確実に伝えることができる。</p>

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、Good Work!」：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ください。

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 「文章表現 中級」 日本語検定2級～3級程度の漢字・表記の意味に関する問題演習に取り組む。	ガイダンス 問題演習 「日本語検定3級過去問題」 「日本語検定2級過去問題」	演習問題の確認（復習）	30
2 /	漢字・表記の知識の確認 「話しあいの方法」 自分の意見発表のテーマを定める。	小テスト 評価規準の提示	小テストに備える。（予習）	30
3 /	「話しあいの方法」 意見を発表するための原稿を作成する。	前回の小テスト返却 過去の「校内意見発表会」 入賞作品の紹介	意見文の構想を練る。（予習）	30
4 /	「話しあいの方法」 各自意見を発表し、相互評価する。 「エッセイを書く」	言葉クイズ スピーチ 評価シート記入 ビデオ「エッセイを読む」	言葉クイズに備える。（予習）	30
5 /	「エッセイを書く」 優れたエッセイを読み味わい、魅力を理解する①	前回の言葉クイズ返却 言葉クイズ エッセイの音読 ビデオ「エッセイを書く」	言葉クイズに備える。（予習）	30
6 /	「エッセイを書く」 良い作品にするために、タイトルや書き出し、細部描写や結びの工夫が重要であることを理解する。	前回の言葉クイズ返却 評価規準の提示 エッセイ記述	エッセイの構想を練る。（予習）	30
7 /	「エッセイを書く」 前時に書いたエッセイ作品を音読、鑑賞し、相互評価する。 優れたエッセイを読み味わい、魅力を理解する②	言葉クイズ 音読 評価シート記入	言葉クイズに備える。（予習）	30
8 /	「物語を作る」 様々なスタイルの二次創作について理解する。	前回の言葉クイズ返却 言葉クイズ 二次創作作品の紹介 評価規準の提示	言葉クイズに備える。（予習）	30
9 /	「物語を作る」 二次創作作品を記述する。読者がオリジナル作品とのつながりを理解できるよう留意する。	前回の言葉クイズ返却 二次創作作品記述	二次創作作品の構想を練る。 (予習)	30
10 /	「物語を作る」 前時に書いた二次創作作品を音読、鑑賞し、相互評価する	言葉クイズ 音読 評価シート記入	言葉クイズに備える。（予習）	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)
11 /	「広告」 白山麓キャンパスでのスポーツ大会開催のための広告ポスターを作成する。	前回の言葉クイズ返却 言葉クイズ 評価規準の提示 ポスター作成	言葉クイズに備える。(予習)	30
12 /	「広告」 前時に作成したポスターについて、工夫した点をプレゼン発表する。	前回の言葉クイズ返却 言葉クイズ プレゼン 評価シート記入	言葉クイズに備える。(予習)	30
13 /	「プレゼンテーション」 プレゼンテーション「世界の都市」のためのスライドを作る。各自一都市を選び、歴史や文化などについて調査する。	前回の言葉クイズ返却 発表内容に基づいてスライド構成を考える。	スライド作りのための材料を集める。(予習)	30
14 /	「プレゼンテーション」 プレゼンテーション「世界の都市」のためのスライドを作る。	スライド作り 発表練習	プレゼン練習をする(予習)	30
15 /	「プレゼンテーション」 プレゼン発表し、相互評価する。	プレゼン発表 評価シート	発表して気づいた改善点を修正する。(復習)	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Expression II A		1	500700	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	TAYLOR, James		Hakusanroku C:101.201				Monday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Writing		Students will consider what they learnt in previous English Expression courses and will expand on their knowledge by writing essays of various genres. Students will obtain skills to be able to describe their ideas logically in correct English and acquire the skills to be able to plan, configure, write, and rewrite essays. Students will be able to evaluate their writing through conducting peer review activities.						
2	Essays								
3	Genres								
4	Journal								
5	Peer review								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to speak and write in English. Missing deadlines will disrupt your progress and prevent you from achieving a high grade, so complete tasks when they are assigned and submit them on time. Peer review and feedback are important parts of the writing process, so use the opportunity to communicate with your classmates. Respect others' ideas and opinions. It is crucial to ask your classmates or the teacher for help when necessary.									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	100	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	25	0	0	0	0	25
	Ability to think, reason and create	0	0	25	0	0	0	0	25
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	30	0	0	0	0	30
	Attitude and motivation for learning	0	0	10	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	✓
	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 go through the writing process, respond appropriately to feedback, and produce essays of various genres that are logically structured, well argued, and supported by evidence from reliable sources.	Students go through the writing process, respond to some feedback, and produce essays of various genres that are for the most part logically structured, well argued, and supported by evidence from reliable sources.

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. Process Essay 1: Students will review process paragraphs and consider the features and structures of process essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
2 /	Process Essay 2: Students will plan a process essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
3 /	Process Essay 3: Students will write the first draft of their process essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
4 /	Process Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
5 /	Process Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
6 /	Comparison Essay 1: Students will review comparison paragraphs and consider the features and structures of comparison essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
7 /	Comparison Essay 2: Students will plan a comparison essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
8 /	Comparison Essay 3: Students will write the first draft of their opinion essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
9 /	Comparison Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
10 /	Comparison Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft.	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 /	Problem-Solution Essay 1: Students will review problem-solution paragraphs and consider the features and structures of problem-solution essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
12 /	Problem-Solution Essay 2: Students will plan a problem-solution essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
13 /	Problem-Solution Essay 3: Students will write the first draft of their problem-solution essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
14 /	Problem-Solution Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
15 /	Problem-Solution Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft. 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.	Journal.	30

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	English Expression II B	1	500800	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	TAYLOR, James	Hakusanroku C:101.201			Monday 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Writing	Students will consider what they learnt in previous English Expression courses and will expand on their knowledge by writing essays of various genres. Students will obtain skills to be able to describe their ideas logically in correct English and acquire the skills to be able to plan, configure, write, and rewrite essays. Students will be able to evaluate their writing through conducting peer review activities.							
2	Essays								
3	Genres								
4	Journal								
5	Peer review								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to speak and write in English. Missing deadlines will disrupt your progress and prevent you from achieving a high grade, so complete tasks when they are assigned and submit them on time. Peer review and feedback are important parts of the writing process, so use the opportunity to communicate with your classmates. Respect others' ideas and opinions. It is crucial to ask your classmates or the teacher for help when necessary.									
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)							
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②	e	Students will be able to draw on cultural knowledge and personal experience to express themselves.							
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	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	30	0	0	0	0	30
	Attitude and motivation for learning	0	0	10	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	✓
	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	
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	③	
	④	
	⑤	
	⑥	

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Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Introduction: Students will read the syllabus. Descriptive Essay 1: Students will review descriptive paragraphs and consider the features and structures of descriptive essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
2 /	Descriptive Essay 2: Students will plan a descriptive essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
3 /	Descriptive Essay 3: Students will write the first draft of their descriptive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
4 /	Descriptive Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
5 /	Descriptive Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
6 /	Persuasive Essay 1: Students will review persuasive paragraphs and consider the features and structures of persuasive essays.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
7 /	Persuasive Essay 2: Students will plan a persuasive essay on an assigned topic.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
8 /	Persuasive Essay 3: Students will write the first draft of their persuasive essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
9 /	Persuasive Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
10 /	Persuasive Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft.	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 /	Final Essay 1: Students will choose a genre to write, review that paragraph and consider the features and structures of that essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
12 /	Final Essay 2: Students will plan an essay on a topic of their choice.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
13 /	Final Essay 3: Students will write the first draft of their essay.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
14 /	Final Essay 4: Students will review their classmates' first draft, then revise and edit their own essays and write the second draft.	Worksheets, writing, brainstorming, discussion, peer review; individual, pair, and group work.	Journal.	30
15 /	Final Essay 5: Students will review their classmates' second draft, then revise and edit their own essays and write the final draft. 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.	Journal.	30

令和3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	文学II	1	501000	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			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	日本文学	多岐にわたる豊饒な日本文藝の作品群の読解、鑑賞を通して、その作品から喚起される「感動」を的確に受け止める豊かな感受性を涵養する。また、それらの作品に内包される「感動」の源泉となる作者の思考基盤を自ら思索・分析し、それらの思考過程を基軸としながら論文・エッセイ・プレゼンテーション、さらには作品の「感動」によって触発された創作といったさまざまな表現形態によって自らの心象を形象化することができるようにする。また、テキストの分析に際してはさまざまな学域を援用し、多角的な観点を身につける。
2	読解力	
3	思考力	
4	表現力	
5		

授業の概要および学習上の助言

授業の概要：
 作品全体の構成や展開を踏まえ、抽象表現や情景描写に留意しながら、筆者の考えや登場人物の心理を丁寧に読み進めることを通じて、作品の語りかけるものを的確に把握する読解力と鑑賞力を養う。また、書評や創作に取り組み、目的に応じて効果的な形式で表現する方法を学ぶ。授業で扱う主な作品は下記の通り。
 中島敦『山月記』
 梶井基次郎『檸檬』
 『古事記』
 『源氏物語』
 『論語』『荘子』
 学習上の助言：
 ・課題は必ず実行すること。
 ・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。
 ・対象作品は徹底的に読み込むこと。
 ・さまざまなジャンルの書物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： 指定なし
 参考書： 指定なし
 リザーブドブック： 指定なし

履修に必要な予備知識や技能

・「国語表現IA」「国語表現IB」「文学I」などを履修し、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	f	語句の意味を正しく理解し、正確に読むことができる。
②	f	作品の構成や展開の仕方を的確に捉え、説明することができる。
③	f	人物の心理の推移について、作品の展開に即して読み取ることができる。
④	e,f	作品が成立した背景や他の作品との関係を踏まえ、作品の解釈を深めることができる。
⑤	e,f	主張や感動などが効果的に伝わるように、構成や表現を工夫して書くことができる。
⑥	f,i	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		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
指標と評価割合									
総合評価割合		0	20	40	20	0	20	0	100
総合力指標	知識を取り込む力	0	20	0	0	0	10	0	30
	思考・推論・創造する力	0	0	20	0	0	0	0	20
	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	0	0	30
	学習に取り組む姿勢・意欲	0	0	0	10	0	10	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	レ
	②	レ
	③	レ
	④	レ
	⑤	
	⑥	
レポート	①	
	②	
	③	
	④	レ
	⑤	レ
	⑥	レ
成果発表 (口頭・実技)	①	レ
	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	レ
	②	レ
	③	レ
	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
<p>■小テスト</p> <p>読解に必要な漢字・語句の知識がある。 自分で文献を調べ、作品に関する知識を得ることができる。 正確に読解し、問いに対して的確に解答できる。 論拠を示して、独自の解釈を述べることができる。</p> <p>■レポート</p> <p>自分にひきつけて考え、独自の視点が入っている。 明快な文章構成、効果的な文章表現ができる。 多様な作品を読み、ものの見方や考え方を豊かにすることができる。</p>	<p>■小テスト</p> <p>読解に必要な漢字・語句の知識がある。 教材を読み、作品に関する知識がある。 正確に読解し、問いに対して解答できる。 講義をふまえ、自分の解釈を述べることができる。</p> <p>■レポート</p> <p>講義や意見交換をもとに、自分の考えをまとめることができる。 文章構成や文章表現を工夫できる。 作品を読み、ものの見方や考え方を豊かにすることができる。</p>

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ください。

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 /	<p>■科目ガイダンス</p> <ul style="list-style-type: none"> ・科目の目的、内容、評価方法について理解する。 <p>中島敦『山月記』</p> <ul style="list-style-type: none"> ・本文を通読し、感想を述べる。 ・漢字の読みや語句を調べる。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>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。(復習)</p>	30
2 /	<p>中島敦『山月記』</p> <ul style="list-style-type: none"> ・作者中島敦について概要を把握する。 ・舞台となっている場所と時代を理解する。 ・主人公の人物像と状況、心理の変化を読み取る。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>授業で指定された部分を読解し、語句を整理する。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
3 /	<p>中島敦『山月記』</p> <ul style="list-style-type: none"> ・主人公の自己認識を読み取る。 ・主人公の苦悩と悲哀を考える。 ・作品の主題を考える。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>授業で指定された部分を読解し、語句を整理する。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
4 /	<p>中島敦『山月記』</p> <ul style="list-style-type: none"> ・解釈の多様性について考察する。 ・二次創作に取り組む。 	<p>小テスト① 講義と質疑 プリント配布 グループワーク</p>	<p>小テストの学習をする。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
5 /	<p>中島敦『山月記』</p> <ul style="list-style-type: none"> ・課題の作品を読み合い、相互評価する。 	<p>課題①提出 講義と質疑 プリント配布 グループワーク</p>	<p>課題を仕上げる。(予習) 相互評価を見直す。(復習)</p>	30
6 /	<p>梶井基次郎『檸檬』</p> <ul style="list-style-type: none"> ・本文を通読し、感想を述べる。 ・作者梶井基次郎について概要を把握する。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>授業で指定された部分を読解し、語句を整理する。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
7 /	<p>梶井基次郎『檸檬』</p> <ul style="list-style-type: none"> ・作品の構成を把握する。 ・第一段落の果たす役割について考える。 ・「私」の生活状況や心理状況を理解する。 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>授業で指定された部分を読解し、語句を整理する。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
8 /	<p>梶井基次郎『檸檬』</p> <ul style="list-style-type: none"> ・「私」の感受性や美意識を読み取る。 ・文章表現上の工夫を読み取る 	<p>講義と質疑 プリント配布 グループワーク</p>	<p>授業で指定された部分を読解し、語句を整理する。(予習) 相互評価を見直し、自己点検を行う(復習)</p>	30
9 /	<p>梶井基次郎『檸檬』</p> <ul style="list-style-type: none"> ・檸檬による「私」の心理変化を考える。 ・檸檬にこめられた形而上的な価値を読み取る。 ・書評に取り組む。 	<p>小テスト② 講義と質疑 プリント配布 グループワーク</p>	<p>小テストの学習をする。(予習) 配布プリントやノートを再読し、理解を深める。(復習)</p>	30
10 /	<p>梶井基次郎『檸檬』</p> <ul style="list-style-type: none"> ・課題の作品を読み合い、相互評価する。 	<p>課題②提出 講義と質疑 プリント配布 グループワーク</p>	<p>課題を仕上げる。(予習) 相互評価を見直す。(復習)</p>	30

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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、Good Work!」：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ください。

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 ／	『古事記』 ・ 作品概要を把握する。 ・ 本文を読み、解釈の多様性について考察する。	講義と質疑 プリント配布	授業で指定された部分を読解し、 語句を整理する。(予習) 配布プリントやノートを再読し、 理解を深める。(復習)	30
12 ／	『源氏物語』 ・ 作品概要を把握する。 ・ 本文を読み、古文特有の表現の奥深さを味わう。	授業記録提出① 講義と質疑 プリント配布	授業で指定された部分を読解し、 語句を整理する。(予習) 配布プリントやノートを再読し、 理解を深める。(復習)	30
13 ／	『論語』『莊子』 ・ 作品概要を把握する。 ・ 本文を読み、それぞれの思想の違いを理解する。	オンライン 講義と質疑 プリント配布	授業で指定された部分を読解し、 語句を整理する。(予習) 配布プリントやノートを再読し、 理解を深める。(復習)	30
14 ／	【演習】 ・ プレゼンテーション資料の作成に取り組む。	授業記録提出② プリント配布 グループワーク	プレゼンテーション資料の準備を する(予習) プレゼンテーション資料を仕上げ る。(復習)	30
15 ／	【発表】 ・ プレゼンテーションを行い、相互評価する。	成果発表① プリント配布 アンケート実施	発表の準備をする。(予習) 相互評価を見直し、自己点検を行 う。(復習)	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Elective		World Literature II		1	501200	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	STEVENSON, Ian		Hakusanroku C:101.201				(M-F) 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Genres			Students will be able to read a variety of short pieces of writing from a variety of literary genres and academic disciplines. Students will keep a reading log/journal where they will be able to record and reflect on what they have read. Students will read critically and for meaning in order to be able to summarize, discuss, compare and contrast different readings and styles of literature.					
2	Fiction								
3	Non-Fiction								
4	Reading								
5	Writing								
Course Description and Expectations for Students (10.5pt)									
<p>Read! Be ready to talk about what you read. Students don't have to like everything they read but they need to read everything A student who doesn't like what they read and is ready to discuss it will do better than a student who likes what they read but is not ready to discuss it.</p>									
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 express one's own ideas in English. Ability to work in a group with a variety of different people. Work ethic to complete tasks on time. Desire to improve speaking and listening skills through asking for help and responding to feedback.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e, h	Students will be able to read and discuss a variety of literary genres and academic disciplines.							
②	e, f, i	Students will be able to keep a reading log/journal.							
③	g, i	Students will be able to summarize a piece of writing.							
④	e, h, f	Students will be able to compare and contrast different pieces of writing.							
⑤	i	Students will be able to read for understanding.							
⑥	e, f, i	Students will be able to read critically and express opinions on what was read.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	25	50	25	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	5	10	5	0	0	0	20
	Ability to think, reason and create	0	5	10	5	0	0	0	20
	Collaboration and leadership	0	5	10	5	0	0	0	20
	Announcement / Expression / Communication	0	5	10	5	0	0	0	20
	Attitude and motivation for learning	0	5	10	5	0	0	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	Worksheets will be graded on completion and correctness of answers. Feedback will be given during the next class session and/or on Manaba.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Students will write 4 genre based projects (for example, a short story), which will be graded on task achievement and coherence. Feedback will be given during the next class session and/or on Manaba.
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	Students will create a gallery walk presentation of their work and projects completed for each module, which will be graded on presentation skills, explanation and content. Feedback will be given during the next class session and/or on Manaba.
	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 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 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 /	Module 1: Short Stories/Fiction	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
2 /	Module 1: Short Stories/Fiction	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
3 /	Module 1: Short Stories/Fiction Short Story Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Short Story/Fiction project	30
4 /	Module 2: Graphic Novels Short Story Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
5 /	Module 2: Graphic Novels	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
6 /	Module 2: Graphic Novels Graphic Novel Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Graphic Novel project	30
7 /	Module 3: *TBD, this may be Poetry, Essay, Reporting Events, etc. Graphic Novel Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
8 /	Module 3: TBD, this may be Poetry, Essay, Reporting Events, etc.	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
9 /	Module 3: TBD, this may be Poetry, Essay, Reporting Events, etc. TBD Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete TBD project	30
10 /	Module 4: Biography/Non-fiction TBD Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.		30

*TBD= To be decided

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 /	Module 4: Biography/Non-fiction	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
12 /	Module 4: Biography/Non-fiction Biography Rough Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Biography/Non-fiction project	30
13 /	Module 5: Gallery Walk Biography Final Draft Returned	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
14 /	Module 5: Gallery Walk	Individual, pair and group work using worksheets, journals and technology.	Complete classwork.	30
15 /	Module 5: Gallery Walk	Individual, pair and group work using worksheets, journals and technology.	Complete classwork. Complete Gallery Walk project	30

令和3年度 学習支援計画書

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 必修		歴史文化ⅡA	1	501600	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				火曜・金曜 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究する。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									
授業の概要および学習上の助言									
<p>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。</p> <p>授業内容について、理解が不十分と感じるところがあれば質問すること。講義のメモを取り各自でノートを補完すること。</p>									
【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：									
リザーブドブック：									
履修に必要な予備知識や技能									
歴史文化ⅠA 歴史文化ⅠB									
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	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	地域社会の持つ問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		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
指標と評価割合									
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	✓
	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	
	②	
	③	
	④	✓
	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	
	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ことができる 地域社会の持つ問題点を正確に捉えることができる 地域社会の持つ問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、Good Work!」：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ください。

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 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する 白山地域を通じて日本の信仰を理解する	白山の動植物について講義する 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。	白山の信仰について講義する 課題②を配布する	白山の信仰について調べる 授業の内容を確認する	30 15
5 /	白山地域の信仰②	白山と他の地域の信仰について講義する 課題②を提出する	白山と他の地域との信仰を比較する 授業の内容を確認する	30 15
6 /	白山地域から見る日本の歴史① 白山地域から日本の古代社会を考える 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。	日本の古代社会について講義する	古代の日本について調べる 授業の内容を確認する	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 グループ討議での問題点をまとめる。 発表の準備をする	60 45
8 /	白山地域から見る日本の歴史② 白山地域から日本の中世社会を考える	日本の中世社会について講義する。 課題③を配布する	中世の日本について調べる 授業の内容を確認する	30 15
9 /	白山地域から見る日本の歴史③ 白山地域から日本の戦国社会を考える	日本の戦国社会について講義する 課題③を提出する	戦国日本について調べる 授業の内容を確認する	30 15
10 /	白山地域から見る日本の歴史④ 白山地域から日本の近世社会を考える	日本の近世社会について講義する 課題④を提出する	近世の日本について調べる 授業の内容を確認する	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、Good Work!」：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ください。

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 /	白山地域から見る日本の歴史⑤ 白山地域から日本の近代社会を考える	日本の近代社会について講義する 課題④を提出する	近代の日本について調べる 授業の内容を確認する	30 15
12 /	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。 課題⑤を配布する	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
13 /	白山地域の生活・文化 白山地域の人々の生活や文化を正しく理解する	白山地域の人々の生活や文化について講義する 課題⑤を提出する	白山地域に伝わる文化を調べる 授業内容を確認する	30 15
14 /	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る グループの解決策をまとめる 発表の準備を行う 他のグループ発表の内容について考える	60 45
15 /	問題点と改善案の発表② 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る グループの解決策をまとめる 発表の準備を行う 他のグループ発表の内容について考える	60 30
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			

令和3年度 学習支援計画書

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 必修		歴史文化ⅡB	1	501700	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C 101.201			月曜・木曜 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	日本文化		この授業は日本に於ける古代国家の形成に始まり、藤原氏の役割について学ぶ。また中世における武家政権の誕生や公武合体について理解を深め、全国統一と徳川幕府の成立やその制度について学ぶ。さらに近代における明治維新と立憲君主国家・日本について学び、大正から昭和期にかけての近現代史の流れを通して今後の日本を見据える。						
2	日本歴史								
3	自己形成								
4	日本と世界								
5									
授業の概要および学習上の助言									
このコースは古代から近代までの日本史の概説であり、その社会的、政治的、経済的、文化的、宗教的側面を総合的に学習する。同時に日本史を世界の歴史的文脈の中で考察する。学生は歴史的現象や出来事が「なぜ・どのよう」に起こったのかを問い、主な人物が歴史上の岐路で果たした役割についても検討する。さらにさまざまな問題に関する議論を通して「歴史的思考力」を育て、多くの歴史的事例から新しい観点を「発見」し、各自の結論を導き出す力を身に付ける。									
理解が不十分と感じるところがあれば積極的に質問すること。講義についてメモを取り各自でノートを補完すること。									
【教科書および参考書・リザーブドブック】									
教科書：「最新日本史」村尾次郎、明成社 参考書：ハンドアウト リザーブドブック：									
履修に必要な予備知識や技能									
歴史文化ⅠA 歴史文化ⅠB 歴史文化ⅡA									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	a, e	日本に於ける古代国家の形成について説明することができる。							
②	c	摂関政治に於ける藤原氏の役割について説明することができる。							
③	c, e	武家政権の誕生や公武合体について説明することができる。							
④	a, c	全国統一と徳川幕府の誕生やその制度について説明することができる。							
⑤	a, c, e	明治維新と立憲君主国家・日本について説明することができる。							
⑥	a, c, e	大正から昭和期にかけての近現代史の流れを説明することができる。							
達成度評価									
評価方法		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
指標と評価割合									
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。論述式問題に対する答案の4つの領域を評価する。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	✓	中間テスト。論述式問題の解答を次の四つの基準から評価する。①「歴史の流れ」に対する理解度。②解答に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。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	✓	1回の個人発表：教員と相談した上で後学期に学んでいる日本史の内容からテーマを決定する。 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定を受ける。(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配布資料(メモを取る事)・5つの課題・発表の補助資料(2点)や関係のある時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
<p>日本に於ける古代国家の形成について説明することができる。</p> <p>摂関政治に於ける藤原氏の役割について説明することができる。</p> <p>武家政権の誕生や公武合体について説明することができる。</p> <p>全国統一と徳川幕府の成立やその制度について説明することができる。</p> <p>明治維新と立憲君主国家・日本について説明することができる。</p> <p>大正から昭和期にかけての近現代史の流れを説明することができる。</p>	<p>日本に於ける古代国家の形成を部分的に述べるすることができる。</p> <p>摂関政治の特色について述べるすることができる。</p> <p>武家政権の特色と朝廷との関係について述べるすることができる。</p> <p>全国統一と徳川幕府成立とその制度について述べるすることができる。</p> <p>明治維新と立憲君主国家・日本の意義について述べるすることができる。</p> <p>大正から昭和期にかけて近現代史の流れについて考える事ができる。</p>

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、Good Work!」：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ください。

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 /	授業の概観と古代(1) 大和王朝について理解する	日本史の基本的テーマを紹介し、農耕社会と大和王朝成立について講義する。	大和王朝について調べる 授業内容を確認する	30 15
2 /	古代(2) 律令制と仏教伝来を理解する	新しい国家を作るために色んな思想や制度を唐から学んだ人物について講義する。 課題①を配布	律令制と仏教伝来について調べる 授業内容を確認する	30 15
3 /	古代(3) 摂関政治を理解する	宮中貴族社会が成立する上での藤原氏の役割について講義する。 課題①を提出	摂関政治について調べる 授業内容を確認する	30 15
4 /	中世(鎌倉) 武家政治の台頭を理解する	源氏の台頭による武家政権の確立について講義する。 課題②を配布	鎌倉幕府について調べる 授業内容を確認する	30 15
5 /	中世 室町幕府と南北朝を理解する	公武合体における足利氏の役割について講義する。 課題②を提出	室町幕府と南北朝について調べる。 授業内容を確認する	30 15
6 /	近世(安土・桃山) 織田・豊臣政権について理解する	全国統一に於ける織田信長と豊臣秀吉の役割について講義する。 課題③を配布	織豊時代について調べる。 授業内容を確認する	30 15
7 /	近世(江戸) 江戸幕府と幕藩体制について理解する	全国平定に於ける徳川氏の役割について講義する。 課題③を提出	幕藩体制について調べる 授業内容を確認する	30 15
8 /	中間テスト 幕藩体制の安定と動揺について理解する。	中間テスト(50分間) 幕藩体制の直面した諸問題について講義する。	中間テストの準備をする。 幕藩体制の安定と衰退の要因について調べる。 授業内容を確認する。	60 15
9 /	近代(明治) 開国と明治維新について理解する	明治国家成立における西郷隆盛や大久保利通などの役割について講義する。	幕末と明治維新について調べる。 授業内容を確認する	30 15
10 /	近代(明治) 明治立憲主義と東アジアにおける二度の戦争について理解する。	立憲国家としての日本と日清戦争と日露戦争への関わりについて講義する。 課題④を配布	明治国家と対外戦争を調べる。 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、Good Work!」：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ください。

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 /	近代（大正） 第一次世界大戦とワシントン体制について理解する。	第一次大戦での日本の役割と東アジアと太平洋における新秩序の成立について講義する。 課題④を提出	第一次大戦と軍縮について調べる。 授業内容を確認する	30 15
12 /	近代（大正） 大正デモクラシーと大衆文化の出現について理解する。	大正デモクラシーの意義を考え、1920年代になぜ・どのように大衆文化が広まったかを講義する。 課題⑤を配布	政党政治について調べる 授業内容を確認する	30 15
13 /	近代（昭和） 中国問題と軍部の政治的台頭について理解する。 近代（昭和） 第二次世界大戦について理解する。	経済恐慌後に軍部がどのように権力を握ったかを講義する。 戦争期の重要な人物・イベントについて講義する。 課題⑤を提出	軍部の政治的台頭を調べる 授業内容を確認する 第二次世界大戦について調べる 授業内容を調べる	30 15
14 /	近代（昭和・戦後） 日本の復興について理解する	第二次大戦後に日本がどのように経済大国として復興したのかを講義する。	日本の復興について調べる 授業内容を確認する	30 15
15 /	発表 歴史的人物や出来事について説明する。	歴史的人物や出来事について発表する。	発表準備を行う 他の発表について考える。	60 15
16 /	定期試験	学生の日本歴史に対する知識と理解度を確かめる。	試験のための準備を行う 試験内容・結果を確認する	60 15
17 /	自己点検			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	History and Culture (English) II A	1	502000	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	UEDA, Kiyoshi	Hakusanroku.C 101.201			Tuesday and Friday 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Hakusan Region	This course guides students in exploring the history/culture of Hakusan region and Japanese history/culture via its 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 also learn to nurture a set of principles as a foundation for their actions by pursuing the study of the region.							
2	History and Culture								
3	Nature and Environment								
4	Local Community								
5									
Course Description and Expectations for Students									
<p>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.</p> <p>Students are urged to ask questions if they do not fully understand the contents of lectures. They should complement their notes by taking memos during the lectures.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
Textbooks: Handout									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
History and Culture I A History and Culture I B									
No.	Program Objectives	Target Abilities for Students							
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		20	0	20	40	0	20	0	100
Comprehensive Strength Criterion	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 Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
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, concise sentences and good textual structure. (20%)
	②	✓	
	③	✓	
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Report	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		
Presentation	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 on 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, 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		
Portfolio	①	✓	Portfolio must include 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 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	Description of Standard Achievement
Students can understand the characteristics of the history/culture of Hakusan region and share them.	Students learn the characteristics of the history/culture of Hakusan region by being exposed to them.
Students show an interest in the natural environment and local communities of Hakusan region, thus understanding their present circumstances.	Students can encounter the natural environment and local communities of Hakusan region and face present circumstances.
Students can think about/understand Japanese history/culture via the phenomena of Hakusan region.	Students can experience a part of the profound history of Hakusan region.
Students can grasp issues of the local communities accurately.	Students can seek guidance in identifying some of these issues.
Students can develop solutions to the problems of local communities.	Students can sincerely work on some of the issues with which the local communities struggle.
Students nurture a set of principles as a foundation for their actions by studying Hakusan region.	Students can nurture their hearts (kokoro) to challenge difficult problems through the study of Hakusan region.

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 (10pt) (Preview and Review)	Time (minutes)
1 /	Geographical positioning of Hakusan region Explain 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. Understand particularities of natural environment of Hakusan region.	Lecture on the geography of Hakusan region. Distribute assignment ①	Study the geography of Hakusan region. Review course content.	30 15
3 /	Nature and environment of Hakusan region. Understand particularities of natural environment of Hakusan region.	Lecture on plants and animals in Hakusan region. Submit assignment ①	Study plants and animals in Hakusan region. Review course content.	30 15
4 /	Worship in Hakusan region. Understand Japanese religion through the history of Hakusan region Study modes of worship in Hakusan region and understand the diversity and characteristics of religion/worship in the region.	Lecture on Hakusan worship. Distribute assignment ②	Study Hakusan worship. Review course content.	30 15
5 /	Worship in Hakusan region. Understand Japanese religion through the history of Hakusan region	Lecture comparing the worship of Hakusan with other areas. Submit assignment ②	Compare the worship of Hakusan with other areas. Review course content.	30 15
6 /	Japanese history from the standpoint of Hakusan region. Learn how to put the local phenomenon of Hakusan region in a broader perspective. Study the diversification of value systems and social transformations in different locations and time-periods.	Lecture on ancient Japan	Examine ancient Japan. 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.	Presentation Explore a solution for the issues faced by Hakusan region through discussion.	Students examine regional issues. Prepare presentations. Summarize the issues through group discussion.	60 45
8 /	Japanese history from the standpoint of Hakusan region. Understand medieval society of Japan through the history of Hakusan region	Lecture on medieval society in Japan. Distribute assignment ③	Examine medieval Japan. Review course content.	30 15
9 /	Japanese history from the standpoint of Hakusan region. Understand Sengoku society of Japan through the history of Hakusan region.	Lecture on Sengoku society of Japan. Submit assignment ③	Examine Sengoku Japan. Review course content.	30 15
10 /	Japanese history from the standpoint of Hakusan region. Understand early-modern society of Japan through the history of Hakusan region.	Lecture on early-modern society of Japan. Distribute assignment④	Examine early modern Japan. Review course content.	30 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	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
11 /	Japanese history from the standpoint of Hakusan region. Understand modern society of Japan through the history of Hakusan region.	Lecture on modern society of Japan. Submit assignment ④	Examine modern Japan. Review course content.	30 15
12 /	Industry in Hakusan region. 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. Distribute assignment⑤	Study industries in the Hakusan region. Review course content.	30 15
13 /	Livelihood and culture of Hakusan region. Understand livelihood and culture of the people of Hakusan region.	Lecture on livelihood and culture of Hakusan region. Submit assignment⑤	Study the cultural heritage of Hakusan region. Review course content.	60 15
14 /	Presentation on regional issues and improvement plans. Make a presentation on an issue (or issues) and offer a solution.	Present a group solution and examine 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
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 examine 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	Final Exam (50 minutes) Evaluate students' overall understanding of the subject	Study overall course content. Review the content of the exam.	60 15
17 /	Self— Check			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	History and Culture (English) II B	1	502100	Second	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		Learning Objectives of the Course							
1	Japanese culture	This course begins with the formation of the ancient nation in Japan and studies the role of the Fujiwara clan. It deepens our understanding of the medieval birth of the Shogunate and the Union of the Imperial court and the Shogunate and examines the establishment of the Tokugawa Shogunate and its system. It also studies the Meiji Restoration and looks ahead to the future, to early modern/modern history from the Taisho to the Showa eras.							
2	Japanese history								
3	Self-identity								
4	Japan and World								
5									
Course Description and Expectations for Students									
<p>This course is an introductory survey of Japanese history from ancient to modern times, comprehensively including social, political, economic, cultural, and religious aspects. It simultaneously examines Japanese history within the historical context of the world. The course guides students to ask “why and how” certain historical phenomena and events occurred and to consider the roles of key figures at critical junctures in the course of history. It also leads students to discuss various issues to develop their “historical thinking,” facilitating their ability to “find” new perspectives and to draw their own conclusions from a multiplicity of historical examples.</p> <p>Because of the comprehensive nature of the course, students should ask questions if they do not fully understand the contents of lectures. Notes should be complemented by memos on lectures.</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Handout Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
History and Culture I A History and Culture I B History and Culture II A									
No.	Program Objectives	Target Abilities for Students							
①	a, e	Students will be able to explain the formation of the ancient nation in Japan.							
②	c	Students will be able to explain the role of the Fujiwara clan in the Regency government.							
③	c, e	Students will be able to explain the birth of the Shogunate and the Union of the Imperial court with Shogunate.							
④	a, c	Students will be able to explain the national unification, the birth of the Tokugawa Shogunate and its system.							
⑤	a, c, e	Students will be able to explain the Meiji Restoration and Japan as a constitutional monarchy state.							
⑥	a, c, e	Students will be able to explain the course of early modern/modern history from the Taisho through the Showa eras.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		20	20	20	20	0	20	0	100
Comprehensive Strength Criterion	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 Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
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 an answer to the examination question. Fourth, 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. Second, the accuracy of historical facts in the contents of an answer. Third, the relevance and logic of an answer to the examination question. Fourth, concise sentences and good textual structure. The test will be evaluated and returned the following week. (20%)
	②	✓	
	③	✓	
	④		
	⑤		
	⑥		
Report	①	✓	There will be five short 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. They will be graded and returned the following week. (20%)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentation	①	✓	There will be one presentation at the end of the semester. A student will choose a historical figure and critical event in consultation with the instructor. The individual presentation will be evaluated on the following points: contents, style (method) , supporting materials such as power-point, the indication of source, etc. The presentation will be evaluated and returned the following week. (20%)
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolio	①	✓	Portfolio must include all handouts (please take notes), 5 assignments, supporting material for one presentation, and others when relevant. Work will comprehensively be evaluated, together with the student’s “volition and attitudes toward 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	Description of Standard Achievement
<p>Students can explain the formation of the ancient nation in Japan.</p> <p>Students can explain the role of the Fujiwara clan in the Regency government.</p> <p>Students can explain the birth of the Shogunate and the Union of the Imperial court with the Shogunate.</p> <p>Students can explain the national unification, the birth of the Tokugawa Shogunate, and its system.</p> <p>Students can explain the Meiji Restoration and Japan as a constitutional monarchy.</p> <p>Students can explain the course of early modern/modern history from the Taisho through the Showa eras.</p>	<p>Students can partly explain the formation of the ancient nation in Japan.</p> <p>Students can discuss the Regency government.</p> <p>Students can discuss some particularities of the warrior regime and its relations to the Imperial court.</p> <p>Students can partly discuss the national unification, the birth of the Tokugawa Shogunate, and its system.</p> <p>Student can partly discuss the significance of the Meiji Restoration and Japan as a constitutional monarchy.</p> <p>Students have some thoughts on early modern/modern history from the Taisho through the Showa eras.</p>

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 (10pt) (Preview and Review)	Time (minutes)
1 /	Introduction and Ancient period (1) Understand Yamato dynasty	Introduce basic themes of Japanese history. Examine the formation of agricultural society and the Yamato dynasty.	Study Yamato dynasty. Review course content.	30 15
2 /	Ancient period (2) Understand Ritsuryo system and introduction of Buddhism to Japan	Lecture on how various systems of thought were used to establish a new state.	Study Ritsuryo system. Review course content.	30 15
3 /	Ancient period (3) Understand Regent politics of the Fujiwara clan	Lecture on the role of the Fujiwara clan in establishing the court aristocracy.	Study Regent politics. Review course content.	30 15
4 /	Medieval period (Kamakura) Understand Kamakura Bakufu and the rise of the Samurai government	Lecture on the rise of the Minamoto clan to establish the first Samurai government to mark the beginning of the medieval period.	Study Hakusan worship. Review course content.	30 15
5 /	Medieval period (Muromachi)	Lecture on the role of the Ashikaga clan in uniting the courtier and the warrior.	Examine the role of the Ashikaga clan in uniting the courtier and the warrior. Review course content.	30 15
6 /	Early modern period (Azuchi-Momoyama)	Lecture on the roles of Oda Nobunaga and Toyotomi Hideyoshi in unifying the nation.	Study Shokuho period. Review course content.	30 15
7 /	Early modern period (Edo) Edo Bakufu and its Bakuhan system	Lecture on the role of the Tokugawa clan in the pacification of the nation.	Study Bakuhan system. Review course content.	30 15
8 /	Mid-term Test Early modern period (Edo) Stability and disturbances of Bakuhan system	Mid-term Test (50 Minutes) Lecture on various issues the Bakuhan system faced.	Prepare for the test. Review course content. Study factors causing stability and decline of Bakuhan system	60 15
9 /	Modern period (Meiji) Understand opening of the country and Meiji Restoration	Lecture on the roles of Saigo Takamori and Okubo Toshimichi in the formation of the Meiji state.	Study Meiji Restoration. Review course content.	30 15
10 /	Modern period (Meiji) Understand Meiji constitutionalism and two wars in East Asia	Lecture on Japan as a constitutional state and its engagement in Sino-Japanese War and Russo-Japanese War.	Study Meiji state and two wars. Review course content.	30 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.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
11 /	Modern period (Taisho) Understand World War One and the Washington system	Lecture on the role of Japan in WWI and the formation of a new order in the Far East and the Pacific.	Study WWI and the Washington system. Review course content.	30 15
12 /	Modern period (Taisho) Understand Taisho democracy and the age of popular culture	Lecture on the significance of the Taisho democracy, exploring why and how popular culture came about during the 1920s.	Study party politics. Review course content.	30 15
13 /	Modern period (Showa) Understand China Question and political emergence of the military in Japan Modern period (Showa) Understand World War Two	Lecture on how the military came to power during/after the economic crisis. Lecture on key individuals and events in the course of the war.	Study political emergence of the military. Review course content. Study WW II. Review course content.	30 15
14 /	Modern period (Showa: Postwar era) Understand the reconstruction of Japan	Lecture on how Japan re-emerged as an economic power after WWII.	Study the reconstruction of Japan. Review course content.	30 15
15 /	Presentation Explain a key historical figure/event to others	Explain a key historical figure/event to others.	Prepare a presentation. Review course content.	60 15
16 /	Final Exam	Assess students' comprehension of the subject.	Prepare for the exam. Review the contents/results of the exam.	60 15
17 /	Self-check			

2021 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	502800	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	CARRERA, Steven KIHARA, Hitsohi	Hakusanroku C: 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
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									
<p>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.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
<p>Textbooks: Calculus Early Transcendentals 9th Edition by James Stewart Reference books: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>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.</p>									
No.	Program Objectives	Target Abilities for Students							
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		50	30	0	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	10	0	0	50
	Ability to think, reason and create	20	10	0	0	10	0	0	40
	Collaboration and leadership	0	5	0	0	0	0	0	5
	Announcement / Expression / Communication	0	5	0	0	0	0	0	5
	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
Exams	①	✓	<p>There will be one chapter test and one final exam. The chapter exam is worth 10% of your grade for a total. The final exam is worth 40% of your grade. In total, 50% of your final grade will be obtained through these exams. It is crucial that you study all your notes, handouts, homework and quizzes before a chapter exam.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	<p>There will be a quiz each lecture which will cover material from the previous lesson. The average of all your quizzes will be your final score which is worth 30% of your final grade. It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes. These quizzes are meant to make sure you are keeping up with the class.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	<p>Students will have to submit a HW assignment every lecture. The grading criteria will be based on whether you corrected your answer properly or not. Your works will be 20% of your final grade.</p>
	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	Description of Standard Achievement
<p>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.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 /	Introduction/The Tangent & Velocity Problems	Lecture Worksheet	Read the syllabus. Preview content for L.#2.	30
2 /	Limits of a Function	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#3	30
3 /	Calculating Limits Using Limit Laws/Squeeze Theorem	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#4	30
4 /	Continuity and the Intermediate Value Theorem Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#5	30
5 /	Continuity and the Intermediate Value Theorem Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#6	30
6 /	Limits at Infinity	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#7	30
7 /	Derivatives and Rates of Change Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#8	30
8 /	Derivatives and Rates of Change Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#9	30
9 /	The Derivative as a Function	Lecture Worksheet	Finish worksheet/HW. Review content for Test I.	30
10 /	TEST I		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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Derivatives of Polynomials and Exponential Functions Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#12	30
12 /	Derivatives of Polynomials and Exponential Functions Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#13	30
13 /	The Product & Quotient Rules	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#14	30
14 /	Derivatives of Trigonometric Functions Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#15	30
15 /	Derivatives of Trigonometric Functions Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#16	30
16 /	Differentiation	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#17	30
17 /	The Product and Quotient Rules	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#18	30
18 /	The Chain Rule	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#19	30
19 /	Derivatives of Trigonometric Functions	Quiz Lecture Worksheet	Finish worksheet/HW. Review content for L.#20.	30
20 /	Derivatives of Exponential and Logarithmic Functions	Quiz Lecture Worksheet	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	Method	Assignments (Preview and Review)	Time (Minutes)
21 /	Summary of derivatives	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#22	30
22 /	Graphs of functions	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#23	30
23 /	Maximum and Minimum Values	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#24	30
24 /	Concavity and Inflection points	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#25	30
25 /	L'Hospital's Rule 1	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#26	30
26 /	L'Hospital's Rule 2	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#27	30
27 /	L'Hospital's Rule 3	Quiz Lecture Worksheet	Finish worksheet/HW. Preview content for L.#28	30
28 /	Sequences	Quiz Lecture Worksheet	Finish worksheet/HW. Review content for L.#29	30
29 /	Sigma Notation	Quiz Lecture Worksheet	Finish worksheet/HW. Review content for L.#30	30
30 /	Formulae of Sigma Notation	Lecture Worksheet	Finish worksheet/HW. Review for Final Exam.	120

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)
31 /	Final exam		Review materials from No.16 to No. 30.	120
32 /	Final exam return			

2021 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	502900	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	KIHARA, Hitoshi	Hakusanroku C: 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
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									
<p>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.</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Calculus Early Transcendentals 9th Edition by James Stewart Reference books: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>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.</p>									
No.	Program Objectives	Target Abilities for Students							
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		60	20	0	0	20	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	5	0	0	45
	Ability to think, reason and create	30	10	0	0	5	0	0	45
	Collaboration and leadership	0	0	0	0	5	0	0	5
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	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
Exams	①	✓	<p>There will be one mid-term test and one final exam. Each is worth 30% of your grade for a total of 60%. It is crucial that you study all your notes, handouts, homework and quizzes before tests.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	<p>There will be a quiz 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. It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes. These quizzes are meant to make sure you are keeping up with the class.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	✓	<p>Students will have to submit a HW assignment every lecture. The grading criteria will be based on whether you corrected your answer properly or not. Your works will be 20% of your final grade.</p>
	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	Description of Standard Achievement
<p>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.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 /	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	Method	Assignments (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 /	Review for Mid-term Test	Quiz Self-Study / Q&A	Review for Mid-term Test.	30
14 /	Mid-term Test	Self-Study Test	Review materials from #1 to #12.	120
15 /	Integration by Parts 1	Test return Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
16 /	Integration by Parts 2	Quiz Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
17 /	Integration by Part 3	Quiz Lecture Worksheet	Read Section 7.1. Finish worksheet/HW.	30
18 /	Integration of Rational Functions 1	Quiz Lecture Worksheet	Read Section 7.4. Finish worksheet/HW.	30
19 /	Integration of Rational Functions 2	Quiz Lecture Worksheet	Read Section 7.4. Finish worksheet/HW.	30
20 /	Integration of Rational Functions 3	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	Method	Assignments (Preview and Review)	Time (Minutes)
21 /	Trigonometric Integrals 1	Quiz Lecture Worksheet	Read Section 7.2. Finish worksheet/HW.	30
22 /	Trigonometric Integrals 2	Quiz Lecture Worksheet	Read Section 7.2. Finish worksheet/HW.	30
23 /	Trigonometric Integrals 3	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	Online 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	Self-Study / Q&A	Review for Final Exam.	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	Method	Assignments (Preview and Review)	Time (Minutes)
31 /	Final Exam		Review materials from #15 to #29.	120
32 /	Final Exam Return			

2021 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	503200	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	CARRERA, Steven HUSSIEN, Alaa	Hakusanroku C: 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Matrices	Students will be able to define a matrix and recognize its properties, understand how to use matrices, know the equations for a parabola, ellipse and hyperbola, learn about hyperbolic functions and how they relate to the hyperbola, and understand how to represent equations in parametric and polar forms.							
2	Determinants								
3	Conic Sections								
4	Hyperbolic Functions								
5	Polar Equations								
Course Description and Expectations for Students									
<p>In this course, we will study the notion of basic linear algebra. That is, we will look at simultaneous equations and how we can write simultaneous equations as matrices. Then, we will learn the algebra of matrices and properties of matrices. After talking about matrices, we will then focus on conic sections which deal with parabolas, ellipses and hyperbolas. We will then see how hyperbolic functions are defined and how they relate to the hyperbola. Finally, we will learn about parametric and polar equations and some of their graphs.</p>									
<p>【Required Materials (textbooks, reference books, reserved books)】 Textbooks: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart Reference books: Calculus Early Transcendentals 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>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 in order to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.</p>									
No.	Program Objectives	Target Abilities for Students							
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 in order to solve a system of linear equations.							
③	a, d, f, g	Students will be able to define a parabola, ellipse, hyperbola, graph them and recognize their properties.							
④	a, d, g, i	Students will be able to define the hyperbolic functions.							
⑤	a, d, g, i	Students will be able to convert equations into parametric equations.							
⑥	a, g, i	Students will be able to convert equations into polar equations.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		50	20	0	0	20	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	10	0	0	50
	Ability to think, reason and create	20	10	0	0	10	0	0	40
	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
Exams	①	<p>There will be two chapter exams and one final exam. Each chapter exam is worth 10% of your grade for a total of 20%. The final exam is worth 30% of your grade. In total, 50% of your final grade will be obtained through these exams. It is crucial that you study all your notes, handouts, homework and quizzes before a chapter exam.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	<p>There will be one quiz each week which will cover material from the previous week. The total amount of quizzes is undetermined due to school events which limit classes on some weeks. Regardless, the average of all your quizzes will be your final score which is worth 10% of your final grade. It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes. These quizzes are meant to make sure you are keeping up with the class.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	<p>Students will have to submit a HW assignment once a week. The grading criteria will be based on content acquisition (10%) and quality of work through reasoning and showing clear steps on how students acquired the answer to problems (10%). In total, your works will equate to 20% of your final grade.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Portfolios	①	<p>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 and are there notes for each lecture? 5% 2) Binder - Are the syllabus/policy papers in the front of the binder and are all sections organized? 2% 3) Work - Did the student go back to correct mistakes in their work/HW/quizzes/exams? 3%</p>
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
<p>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.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 /	Syllabus/Class Introduction		Read the syllabus. Preview content for L.#2	30
2 /	System of Linear Equations in Two Variables	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#3	30
3 /	System of Linear Equations in Several Variables	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#4	30
4 /	Matrices and Systems of Linear Equations	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#5	30
5 /	The Algebra of Matrices Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#6	30
6 /	The Algebra of Matrices Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#7	30
7 /	Inverses of Matrices and Matrix Equations	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#8	30
8 /	Determinants	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#9	30
9 /	Cramer's Rule	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#10	30
10 /	Systems of Non-Linear Equations	Lecture Worksheet	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Systems of Inequalities	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#12	30
12 /	Applications of Matrices Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#13	30
13 /	Applications of Matrices Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#14	30
14 /	Applications of Matrices Part III	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#15	30
15 /	Applications of Matrices Part IV	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#16	30
16 /	Applications of Matrices Part V	Lecture Worksheet	Finish worksheet/HW. Review content for Test I.	30
17 /	TEST I		Preview content for L.#18	30
18 /	Conic Sections: Parabolas	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#19	30
19 /	Applications of Parabolas	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#20	30
20 /	Conic Sections: Ellipses	Lecture Worksheet	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	Method	Assignments (Preview and Review)	Time (Minutes)
21 /	Applications of Ellipses	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#22	30
22 /	Conic Sections: Hyperbolas	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#23	30
23 /	Applications of Hyperbolas	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#24	30
24 /	Shifted Parabolas/Ellipses/Hyperbolas	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#25	30
25 /	Hyperbolic Functions	Lecture Worksheet	Finish worksheet/HW. Review content for Test II.	30
26 /	TEST II		Preview content for L.#27	30
27 /	Curves Defined by Parametric Equations	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#28	30
28 /	Polar Coordinates Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#29	30
29 /	Polar Coordinates Part II	Lecture Worksheet	Finish worksheet/HW. Review for Final Exam.	30
30 /	Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120

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)
31 /	Final exam		Review all materials	120
32 /	Final exam return			

2021 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	503300	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	HUSSIEN, Alaa KUSHIMA, Yoshihiro	Hakusanroku C: 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Vectors(2D)	Students will be able to define a vector and understand the difference between scalar quantities and vector quantities, learn about the properties of vectors and vector operations in 2D, look at different applications that incorporate vectors, define a vector and understand its properties in 3D, know how to find the dot product and cross product of two vectors in 3D, and learn how to write equations for lines and planes in 3D.							
2	Vectors(3D)								
3	Cross Product(3D)								
4	Equations of Lines(3D)								
5	Equations of Planes(3D)								
Course Description and Expectations for Students									
<p>In this course we will talk about vectors and their importance. First we will define a vector in two dimensions (2D). We will then learn how to add, subtract and scalar multiplication of vectors in 2D. Applications of vectors in 2D will then be discussed and we will talk about the dot product in 2D. The second half of the class, we will talk about vectors in three dimensions (3D). We will learn the importance of vectors in 3D and talk about all the properties of vectors in this 3D space. Defining the dot product, cross product and scalar triple product of vectors in 3D will be the last of our discussion on vectors. We will then look at applications of vectors in 3D.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
<p>Textbooks: Pre-Calculus Mathematics for Calculus 7th Edition by James Stewart Reference books: Calculus Early Transcendentals 7th Edition by James Stewart Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
<p>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 in order to understand the topics covered in class. Students should eventually understand that making mistakes is crucial for their learning.</p>									
No.	Program Objectives	Target Abilities for Students							
①	a, g, i	Students will be able to define a vector and understand the difference between scalar and vector quantities.							
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 write equations of lines and planes in three dimensions.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		50	20	0	0	20	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	10	0	0	10	0	0	50
	Ability to think, reason and create	20	10	0	0	10	0	0	40
	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
Exams	①	<p>There will be two chapter exams and one final exam. Each chapter exam is worth 10% of your grade for a total of 20%. The final exam is worth 30% of your grade. In total, 50% of your final grade will be obtained through these exams. It is crucial that you study all your notes, handouts, homework and quizzes before a chapter exam.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	<p>There will be one quiz each week which will cover material from the previous week. The total amount of quizzes is undetermined due to school events which limit classes on some weeks. Regardless, the average of all your quizzes will be your final score which is worth 10% of your final grade. It is crucial that you study all your notes, handouts and homework in order to do well on your quizzes. These quizzes are meant to make sure you are keeping up with the class.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	<p>Students will have to submit a HW assignment once a week. The grading criteria will be based on content acquisition (10%) and quality of work through reasoning and showing clear steps on how students acquired the answer to problems (10%). In total, your works will equate to 20% of your final grade.</p>
	②	
	③	
	④	
	⑤	
	⑥	
Portfolios	①	<p>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:</p> <ol style="list-style-type: none"> 1) Notebook - Did the student take a decent amount of notes and are there notes for each lecture? 5% 2) Binder - Are the syllabus/policy papers in the front of the binder and are all sections 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	Description of Standard Achievement
<p>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.</p>	<p>Students address their weaknesses in specific topics and form a plan in order to succeed in Calculus.</p>

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 /	Syllabus/Class Introduction Vectors Introduction		Read the syllabus. Preview content for L.#2	30
2 /	Vectors in Two Dimensions Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#3	30
3 /	Vectors in Two Dimensions Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#4	30
4 /	Vectors in Two Dimensions Part III	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#5	30
5 /	Applications of Vectors in Two Dimensions	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#6	30
6 /	The Dot Product	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#7	30
7 /	Applications of the Dot Product Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#8	30
8 /	Applications of the Dot Product Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#9	30
9 /	Applications of the Dot Product Part III	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#10	30
10 /	Applications of the Dot Product Part IV	Lecture Worksheet	Finish worksheet/HW. Review content for Test I	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Review for Test I	Self-Study / Q&A	Review content for Test I	30
12 /	TEST I		Preview content for L.#13	30
13 /	Three-Dimensional Coordinate Geometry Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#14	30
14 /	Three-Dimensional Coordinate Geometry Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#15	30
15 /	Vectors in Three Dimensions Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#16	30
16 /	Vectors in Three Dimensions Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#17	30
17 /	Vectors in Three Dimensions Part III	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#18	30
18 /	Vectors in Three Dimensions Part IV	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#19	30
19 /	The Cross Product Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#20	30
20 /	The Cross Product Part II	Lecture Worksheet	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	Method	Assignments (Preview and Review)	Time (Minutes)
21 /	Applications of the Cross Product	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#22	30
22 /	Equations of Lines	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#23	30
23 /	Applications of Lines Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#24	30
24 /	Applications of Lines Part II	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#25	30
25 /	Equations of Planes	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#26	30
26 /	Applications of Planes Part I	Lecture Worksheet	Finish worksheet/HW. Preview content for L.#27	30
27 /	Applications of Planes Part II	Lecture Worksheet	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	30
29 /	TEST II		Review for Final Exam.	30
30 /	Review for Final Exam	Self-Study / Q&A	Review for Final Exam.	120

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)
31 /	Final Exam		Review all materials	120
32 /	Final Exam Return			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Physics IIA	2	503700	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	ITO, Meguru HALIM, Hazwan	Hakusanroku C: 101.201			M-F 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Solid, Liquid and Gas	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 heat, gas, wave motion, sound, and light.							
2	Heat								
3	Thermodynamics								
4	Wave								
5	Light								
Course Description and Expectations for Students (10.5pt)									
<p>In this course,</p> <ul style="list-style-type: none"> 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. <p>Advices for students:</p> <ul style="list-style-type: none"> Physics IIA is a course that forms the base of Physics IIB, Applied Physics I and II. Be sure to understand the content. 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 (exercises/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:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Knowledge of Physics IA and IB Fundamental skills of calculation									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h,i	Students will be able to elasticity, compression and tension.							
②	h,i	Students will be able to understand physics of liquids and gases.							
③	h,i	Students will be able to understand concept of heat and thermodynamics							
④	h,i	Students will be able to understand characteristics of sound wave and light wave.							
⑤	d,h,i	Students will be able to understand physical phenomena through experiments.							
⑥	i	Students will be able to participate classes actively and review what you achieved.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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. Students who finish exercises early, are able to support other students as a student assistant.
	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 understand physical phenomena.
Students are able to calculate and solve questions correctly using formulae.	Students are able to calculate and solve questions using formulae.
Students are able to understand units and their dimensions for each physical value discussed in the course.	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 18. Solids - Elasticity Understanding elasticity and Hooke's law	Lecture and exercise	Reading the given documents Reading textbook, then preview check	45
2 /	18. Solids - Elasticity Understanding elasticity and Hooke's law	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
3 /	18. Solids – Simple Harmonic Motion • Understanding the motion of simple harmonic oscillator	Lecture and exercise	Confirming the unclear points	15
4 /	18. Solids – Simple Harmonic Motion • Understanding the motion of simple harmonic oscillator	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
5 /	19. Liquids - Buoyancy • Understanding the buoyancy	Lecture and exercise	Confirming the unclear points	15
6 /	19. Liquids - Buoyancy • Understanding the buoyancy	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
7 /	19. Liquids – Pascal's Principle • Understanding Pascal's principle	Lecture and exercise	Confirming the unclear points	15
8 /	19. Liquids – Pascal's Principle • Understanding Pascal's principle	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
9 /	20. Gases – Atmospheric Pressure • Understanding the atmosphere	Lecture and exercise	Confirming the unclear points	15
10 /	20. Gases – Atmospheric Pressure • Understanding the atmosphere	Lecture and exercise	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 /	20. Gases – Bernoulli's Principle <ul style="list-style-type: none"> Understanding Boyle's law and Bernoulli's principle 	Lecture and exercise	Confirming the unclear points	15
12 /	20. Gases – Bernoulli's Principle <ul style="list-style-type: none"> Understanding Boyle's law and Bernoulli's principle 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
13 /	21. Heat – Heat capacity <ul style="list-style-type: none"> Understanding the heat and heat capacity of matter 	Lecture and exercise	Confirming the unclear points	15
14 /	21. Heat – Heat capacity <ul style="list-style-type: none"> Understanding the heat and heat capacity of matter 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
15 /	22. Heat Transfer - Radiation <ul style="list-style-type: none"> Understanding the various types of heat transfer 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	15
16 /	23. Change of Phase <ul style="list-style-type: none"> Understanding the phase of matter 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
17 /	24. Thermodynamics – Second Law of Thermodynamics <ul style="list-style-type: none"> Understanding the laws of thermodynamics 	Lecture and exercise	Confirming the unclear points	15
18 /	24. Thermodynamics – Second Law of Thermodynamics <ul style="list-style-type: none"> Understanding the laws of thermodynamics 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
19 /	24. Thermodynamics - Entropy <ul style="list-style-type: none"> Understanding the entropy 	Lecture and exercise	Confirming the unclear points	15
20 /	24. Thermodynamics - Engine <ul style="list-style-type: none"> Understanding the mechanics of fundamental engines 	Lecture and exercise	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)
21 /	25. Vibrations and Wave - Wave <ul style="list-style-type: none"> Understanding the characteristics of wave 	Lecture and exercise	Confirming the unclear points	15
22 /	25. Vibrations and Wave - Wave <ul style="list-style-type: none"> Understanding the characteristics of wave 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
23 /	25. Vibrations and Wave – Doppler Effect <ul style="list-style-type: none"> Understanding Doppler effect 	Lecture and exercise	Confirming the unclear points	15
24 /	25. Vibrations and Wave – Doppler Effect <ul style="list-style-type: none"> Understanding Doppler effect 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
25 /	26. Sound <ul style="list-style-type: none"> Understanding the characteristics of sound 	Lecture and exercise	Confirming the unclear points	15
26 /	26. Sound <ul style="list-style-type: none"> Understanding the characteristics of sound 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
27 /	27. Light – Concept of Light <ul style="list-style-type: none"> Understanding the concept of light 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
28 /	28. Color - Spectrum <ul style="list-style-type: none"> Understanding the characteristics of color 	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
29 /	Exercise <ul style="list-style-type: none"> Understanding the learned contents 	Exercise	Reviewing the contents so far. Checking wrong answer	45
30 /	Exercise <ul style="list-style-type: none"> Understanding the learned contents 	Exercise	Reviewing the contents so far. Checking wrong answer	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

Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
31 /	Final exam		Review all materials	
32 /	Final exam return			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Physics IIB	2	503800	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	ITO, Meguru HALIM, Hazwan	Hakusanroku C: 101.201			M-F 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Reflection and refraction	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 electricity and magnetism. Students will also learn the fundamentals of nuclear physics and atomic energy.							
2	Electricity								
3	Magnetism								
4	Radioactivity and nuclear reaction								
5									
Course Description and Expectations for Students (10.5pt)									
<p>In this course,</p> <ul style="list-style-type: none"> • 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. <p>Advices for students:</p> <ul style="list-style-type: none"> • Physics IIB is a course that forms the base of Applied Physics I and II. Be sure to understand the content. 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 (exercises/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:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Knowledge of Physics IA, IB, and IIA									
Fundamental skills of calculation									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h,i	Students will be able to understand characteristics of light.							
②	h,i	Students will be able to understand physics of electricity.							
③	h,i	Students will be able to understand physics of magnetism.							
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.							
⑥	i	Students will be able to participate classes actively and review what you achieved.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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. Students who finish exercises early, are able to support other students as a student assistant.
	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 understand physical phenomena.
Students are able to calculate and solve questions correctly using formulae.	Students are able to calculate and solve questions using formulae.
Students are able to understand units and their dimensions for each physical value discussed in the course.	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 29. Reflection and Refraction Understanding reflection and refraction of light	Lecture and experiment	Reading the given documents Reading textbook, then preview check	45
2 /	9. Reflection and Refraction Understanding reflection and refraction of light	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
3 /	30. Lenses • Understanding the characteristics of lenses	Lecture and exercise	Confirming the unclear points	15
4 /	30. Lenses • Understanding the characteristics of lenses	Lecture and exercise	Finishing exercise and reviewing the class Reading textbook, then preview check	45
5 /	31. Diffraction and Interference - Diffraction • Understanding the diffraction and interference of light	Lecture and exercise	Confirming the unclear points	15
6 /	31. Diffraction and Interference - Diffraction • Understanding the diffraction and interference of light	Lecture and exercise	Finishing exercise and reviewing the class	30
7 /	Experiment 1 • Experience interference of light through the experiment	Experiment	Finishing exercise and reviewing class Reading textbook, then preview check	45
8 /	32. Electrostatics – Coulomb's Law • Understanding Coulomb's law and electric charge	Lecture and exercise	Confirming the unclear points	15
9 /	32. Electrostatics – Coulomb's Law • Understanding Coulomb's law and electric charge	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
10 /	33. Electric Fields and Potential – Electric Fields • Understanding the electric fields	Lecture and exercise	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 /	33. Electric Fields and Potential – Electric Fields <ul style="list-style-type: none"> Understanding the electric fields 	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
12 /	33. Electric Fields and Potential – Electric Potential <ul style="list-style-type: none"> Understanding the electric potential 	Lecture and exercise	Confirming the unclear points	15
13 /	33. Electric Fields and Potential – Electric Potential <ul style="list-style-type: none"> Understanding the electric potential 	Lecture and exercise	Confirming the unclear points	15
14 /	33. Electric Fields and Potential – Electric Potential <ul style="list-style-type: none"> Understanding the electric potential 	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
15 /	34. Electric Current <ul style="list-style-type: none"> Understanding the electric current Understanding AC and DC 	Lecture and exercise	Confirming the unclear points	15
16 /	34. Electric Current <ul style="list-style-type: none"> Understanding the electric current Understanding AC and DC 	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
17 /	35. Electric Circuit <ul style="list-style-type: none"> Understanding the electric circuit including resistances Understanding KCL and KVL 	Lecture and exercise	Confirming the unclear points	15
18 /	35. Electric Circuit <ul style="list-style-type: none"> Understanding the electric circuit including resistances Understanding KCL and KVL 	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
19 /	36. Magnetism – Magnetic Fields <ul style="list-style-type: none"> Understanding the magnetic field and magnetic poles 	Lecture and exercise	Confirming the unclear points	15
20 /	36. Magnetism – Magnetic Fields <ul style="list-style-type: none"> Understanding the magnetic field and magnetic poles 	Lecture and exercise	Finishing exercise and reviewing 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)
21 /	36. Magnetism – Ampere's Law • Understanding the Ampere's law	Lecture and exercise	Confirming the unclear points	15
22 /	36. Magnetism – Ampere's Law • Understanding the Ampere's law	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
23 /	37. Electromagnetic Induction – Faraday's Law • Understanding Faraday's law	Lecture and exercise	Confirming the unclear points	15
24 /	37. Electromagnetic Induction – Faraday's Law • Understanding Faraday's law	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
25 /	39. Atomic Nucleus and Radioactivity • Understanding the radioactivity and half-life	Lecture and exercise	Confirming the unclear points	15
26 /	39. Atomic Nucleus and Radioactivity • Understanding the radioactivity and half-life	Lecture and exercise	Finishing exercise and reviewing class Reading textbook, then preview check	45
27 /	40. Nuclear Fission and Fusion • Understanding the nuclear fission and fusion	Lecture and exercise	Confirming the unclear points	15
28 /	40. 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	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

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)
31 /	Final exam		Review all materials	
32 /	Final exam return			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Chemistry IIA		2	504100	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	RASHED, Nagwa DE TILLY, Jason		Hakusanroku C: 101.201				Wed. 13:00-14:00		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Stoichiometry		In this course, students will study moles as a method of quantifying substances, then they will be able to explain the quantitative relationships in various types of chemical reactions and understand the process of creating reactants. Students will also be able to explain the state of matter, solution theory, and chemical reaction theory by using the theory of motion of the particles making up the substance.						
2	states of matter								
3	solutions								
4	thermochemistry								
5	reaction rates								
Course Description and Expectations for Students (10.5pt)									
<p>Chemistry IA will include lectures, solving worksheets, exercises, group activities, teacher demonstrations, and experiments. For better achievements of the course, please consider the following:</p> <ul style="list-style-type: none"> - Students safety comes first, so be always aware of your safety by following the Safety in the Chemistry Lab Rules. - Check Manaba & Pearson Realize regularly for updates. - Preview the specified sections in the textbook and other resources before attending class. - Keep taking notes during the class time. - Participate actively in discussions by asking questions and sharing your ideas with teachers and classmates. - Keep all the materials as worksheets, experiment reports, and other assignments in a folder to build up your portfolio. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Pearson Chemistry 2017 edition, Wilbraham, Staley, Matta, Waterman									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> - Analysis and problem-solving, - Time management and organization. - Written and oral communication. - Monitoring/maintaining records and data. - Team work and research 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d, h, i	Students will be able to determine the names and chemical formulas of ions and compounds.							
②	d, h, i	Students will be able to use mole to convert among the count, mass, and volume of a specified matter.							
③	d, h, i	Students will be able to describe chemical reactions and balance a chemical equation.							
④	d, h, i	Students will be able to use mole ratios of balanced chemical equations to define chemical quantities.							
⑤	d, h, i	Students will be able to apply kinetic theory to determine the characteristics of a state of a substance.							
⑥	d, h, i	Students will be able to identify how aqueous solutions form and the unique properties of water.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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	- Final Exam is a cumulative exam for all taught chapters/topics.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	- Chapter General Tests will be held for each chapter. - A test on the names and symbols of ions will be held.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Students are expected to do the following: - Include lesson title, student's full name and number at the top of each assignment page. - Submit self-checked answers of the assigned textbook and worksheet Qs on time - Turn in any other online assignment on Manaba or Pearson Realize on time. - A 10 % deduction is applied in the case of delay in submitting an assignment per one class delay.
	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.
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Grading criteria of this section are as follows: 1- Clear and organized class notes that show all the covered topics in class. 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 in all times. 5- Cleanliness of laboratory and hygiene that lead to efficiency in all procedures and class time.
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
<ul style="list-style-type: none"> - Students are able to answer and give explanations of the essential questions by applying the taught chemistry knowledge and concepts. - Students are able to design and perform experiments safely to find solutions or propose an explanation. - Students are able to apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - Students are able to 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. 	<ul style="list-style-type: none"> - Students are able to answer the essential questions by applying the taught chemistry knowledge. - Students are able to perform experiments safely, make observations, analyze given data and use scientific thinking to draw conclusions - Students are able to apply their problem-solving skills to solve problems whose solutions require multiple steps. - Students are able to 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 /	Naming and Writing Formulas of Ionic compounds Apply the rules for naming and writing formulas of ions and ionic compounds.	- Lecture - A Small-Scale Lab	- Review Ions and ionic compounds. - Answer all Lesson 9.1 and 9.2 Book and Workbook related Qs.	30 30
2 /	Naming and Writing Formulas for Molecular Compounds - Apply the rules for naming and writing formulas for binary molecular compounds.	- Lecture - Class Activity to name binary molecular compounds	- Review Molecular compounds - Answer all Lesson 9.3 Book and Workbook related Qs.	30 30
3 /	Naming and Writing Formulas for Acids and Bases - Determine the names and formulas of an acid. - Determine the name and formula of a base.	- Lecture - Class activity to name acids and bases.	- What is an acid? What is a base? - Answer all Lesson 9.4 Book and Workbook Related Qs. - Read Sports Nutrition Advisor p. 284	30 30
4 /	The Laws Governing How Compounds Form - Explain how the law of definite proportion is consistent with Dalton's atomic theory. - List the general guidelines that can help you write the name and formula of a chemical compound.	- Lecture - Exercises	- Answer all Lesson 9.5 Book and Workbook related Qs and - Prepare for Chapter 9 General Test	30 30
5 /	The Mole: A Measurement of Matter - Convert among the count, mass, and volume of matter. - Determine the molar mass of an element and of a compound.	- Chapter 9 General Test - Lecture - Practice solved problems - Exercises	- Read and Summarize lesson 10.1 - Answer all Lesson 10.1 Book and Workbook Related Qs	30 30
6 /	Mole-Mass and Mole-Volume - Describe how to convert the mass of a substance to the number of moles of a substance, and moles to mass. - Convert the volume of a gas at STP to the number of moles of the gas.	- Lecture - Practice solved problems - Exercises	- Read How Big is A Mole? P. 316 - Summarize Lesson 10.2	30 30
7 /	Mole-Mass and Mole-Volume - Describe how to convert the mass of a substance to the number of moles of a substance, and moles to mass. - Convert the volume of a gas at STP to the number of moles of the gas.	- Small Scale Lab	- Read Small-Scale Lab p. 324 - Answer all Lesson 10.2 Book Workbook Related Qs	30 30
8 /	Percent Composition and Chemical Formulas - Calculate the percent by mass of an element in a compound. - Calculate the empirical formula of a compound.	- Lecture - Quick Lab	- Read Quick Lab p. 328 - Answer all Book and Workbook Lesson 10.3 Related Qs - Prepare for Chapter 10 General Test	30 30
9 /	Describing Chemical Reactions - Describe how to write a skeleton equation. - Describe the steps for writing and balancing a chemical equation.	- Chapter 10 General Test - Lecture - Home- Scale kitchen experiment.	- Read Kitchen Chemistry p. 355 - Answer all Lesson 11.1 Book and Workbook Related Qs	30 30
10 /	Types of Chemical Reactions - Identify the five general types of reactions	- Lecture - Removing Silver Tarnish Quick Lab experiment.	- Read Quick Lab p. 354 - Answer all Book and Workbook Lesson 11.2 Related Qs	30 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 /	Reactions in Aqueous Solution - Describe the information found in a net ionic equation. - Predict the formation of a precipitate in a double-replacement reaction.	- Lecture - Exercises	- Read "The History of Dynamite" p. 368 - Answer Lesson 11.3 Book and Workbook Related Qs	30 30
12 /	Reactions in Aqueous Solution - Describe the information found in a net ionic equation. - Predict the formation of a precipitate in a double-replacement reaction.	- Small- Scale Lab	- Read Small-Scale Lab p. 374 - Prepare for Chapter 11 General Test	30 30
13 /	The Arithmetic of equations - Describe how chemists use balanced chemical equations. - Describe the quantities you can use to interpret a balanced chemical equation.	- Chapter 11 General Test - Lecture - Group Game to balance equations	- See Balancing Chemical Equations online. - Answer Lesson 12.1 Book and Workbook Related Qs	30 30
14 /	Chemical Calculations - Explain how the mole ratios are used in chemical calculations. - Explain the general procedure for solving a stoichiometric problem.	- Lecture - Practice solved problems - Exercises	- Read Stoichiometric Safety p. 397 - Summarize Lesson 12.2	30 30
15 /	Chemical Calculations - Explain how the mole ratios are used in chemical calculations. - Explain the general procedure for solving a stoichiometric problem.	- Small-Scale Lab - Exercises	- Read Small- Scale Lab p.399 - Answer Lesson 12.2 Book and Workbook Related Qs	30 30
16 /	Limiting reagent and Percent Yield - Explain how the amount of product in a reaction is affected by an insufficient quantity of any of the reactants. - Explain what the percent yield of a reaction measures.	- Lecture - Quick Lab - Exercises	- Read Lesson 12.3 - Answer Lesson 12.3 Book and Workbook Related Qs and prepare for Chapter 12 General Test	30 30
17 /	The Nature of Gases - Describe the three assumptions of kinetic theory as it applies to gases. - Interpret gas pressure in terms of kinetic theory.	- Chapter 12 General Test - Lecture - Virtual Lab	- Make a summary about the coldest place in the universe - Answer Lesson 13.1 Book and Workbook Related Qs	30 30
18 /	The Nature of Liquids - Identify the factors that determine physical properties of a liquid. - Define conditions under which a dynamic equilibrium can exist between a liquid and its vapor.	- Lecture - Group activity - Virtual lab	- Read Lesson 13.2 - Answer Lesson 13.2 Book and Workbook Related Qs	30 30
19 /	The Nature of Solids - Describe how the structure and properties of solids are related. - Identify the factors that determine the shape of a crystal.	- Lecture - Group activity	- Read Lesson 13.2 - Answer Lesson 13.3 Book and Workbook Related Qs	30 30
20 /	The Nature of Solids - Describe how the structure and properties of solids are related. - Identify the factors that determine the shape of a crystal.	- Small-Scale Lab	- Read Small-Scale Lab p. 435 - Read Plasma Waste Convertor	30 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 /	Change of States - Identify the conditions necessary for sublimation. - Determine how the conditions at which phases are in equilibrium are represented on a phase diagram.	- Quick Lab - Lecture - Group activity	- Read Lesson 13.4 - Answer Lesson 13.4 Book and Workbook Related Qs - Prepare for Chapter 13 General Test.	30 30
22 /	Properties of Gases - Explain why gases are easier to compress than solids and liquids. - Describe the three factors that affect gas pressure.	- Chapter 13 General Test. - Lecture - Teacher Demo	- Read Atmospheric Chemist p. 455 - Answer Lesson 14.1 Book and Workbook Related Qs	30 30
23 /	The Gas Laws - Describe the relationship among the pressure, volume, and temperature of a gas.	- Lecture - Class Activity	- Read Lesson 14.2 - Answer all Lesson 14.2 Book and Workbook Related Qs	30 30
24 /	Ideal Gases - Calculate the amount of a contained gas when the pressure, volume, and temperature are specified. - Define the conditions when real gases are most likely to differ from ideal gases.	- Lecture - Quick Lab	- Read Quick Lab p. 467 - Answer Lesson 14.3 Book and Workbook Related Qs	30 30
25 /	Gases: mixtures and Movements - Relate the total pressure of a mixture of gases to the partial pressures of the component gases. - Explain how the molar mass of a gas affects the rate at which gas diffuses and effuses.	- Lecture - Group activity - Exercises	- Read Natural Gas Vehicle p. 476-477 - Answer Lesson 14.4 Book and Workbook Related Qs	30 30
26 /	Gases: mixtures and Movements - Relate the total pressure of a mixture of gases to the partial pressures of the component gases. - Explain how the molar mass of a gas affects the rate at which gas diffuses and effuses.	- Small- Scale Lab - Exercises	- Read Small-Scale Lab p. 475 - Prepare for Chapter 14 General Test	30 30
27 /	Water and Its Properties - Identify the factor that causes the high surface tension, low vapor pressure, and high boiling point of water. - Describe the structure of ice.	- Chapter 14 General Test - Lecture - Quick Lab	- Read Quick Lab p. 491 - Answer Lesson 15.1 Book and Workbook Related Qs	30 30
28 /	Homogeneous Aqueous Systems - Identify the types of substances that dissolve most readily in water. - Why all ionic compounds are electrolytes. - Explain why hydrates easily lose and gain water.	- A Small-Scale Lab - Lecture - Group Activity	- Read reverse Osmosis Distillation p. 502-503 - Answer Lesson 15.2 Book and Workbook Related Qs	30 30
29 /	Heterogeneous Aqueous Systems - Distinguish between a suspension and a solution. - identify how to distinguish a colloid from a suspension and a solution.	- Lecture - Teacher Demo to observe Tyndall Effect. - Group Activity	- Read Small-Scale Lab p. 507 - Answer Lesson 15.3 Book and Workbook related Qs, - Prepare for Chapter 15 General Test.	30 30
30 /	General Review - Review Chapter 9, 10, 11,12, 13,15 and 15	- Chapter 15 General Test - Evaluating and reflecting on the progress of own learning. - School Questionnaire	- Prepare for the Final Exam - Finalize the Portfolio	

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)
31 /	Final Exam	- Evaluating the progress of own learning.		
32 /	Self-study	- Return graded exams and portfolios - Evaluating and reflecting on the progress of own learning.		

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style			
Dept. S General Required		Chemistry IIB		2	504200	Second	Lecture Class			
Target Grade	Instructor		Office	E-mail Address			Office Hours			
2	RASHED, Nagwa GATRI, Dorsaf		Hakusanroku C: 101.201				Wed. 13:00-14:00			
Course Objectives										
Keywords (10.5pt)				Learning Objectives (10.5pt)						
1	Acids			In this course, students will classify types of chemical reactions and learn about neutralization reactions related to acids, bases, salts, oxidation reduction and electrochemistry. Additionally, students will learn about the physical and chemical properties of organic compounds which make up the majority of compounds such as materials, foods and chemicals.						
2	Bases									
3	Redox									
4	Electrochemistry									
5	Organic chemistry.									
Course Description and Expectations for Students (10.5pt)										
Chemistry IIB will include lectures, solving worksheets, exercises, group activities, teacher demonstrations, and experiments. For better achievements of the course, please consider the following:										
<ul style="list-style-type: none"> - Students safety comes first, so be always aware of your safety by following the Safety in the Chemistry Lab Rules. - Check Manaba & Pearson Realize regularly for updates. - Preview the specified sections in the textbook and other resources before attending class. - Keep taking notes during the class time. - Participate actively in discussions by asking questions and sharing your ideas with teachers and classmates. - Keep all the materials as worksheets, experiment reports, and other assignments in a folder to build up your portfolio. 										
Required Materials (textbooks, reference books, reserved books) (10.5pt)										
Textbooks: Pearson Chemistry 2017 edition, Wilbraham, Staley, Matta, Waterman										
Reference books:										
Reserved books:										
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)										
<ul style="list-style-type: none"> - Analysis and problem-solving, - Time management and organization. - Written and oral communication. - Monitoring/maintaining records and data. - Team work and research 										
No.	Program Objectives	Target Abilities for Students (9pt)								
①	d, h, i	Students will be able to determine, describe, and quantify the nature, and the concentration of a solution.								
②	d, h, i	Students will be able to determine the amount of energy absorbed or released in a chemical process.								
③	d, h, i	Students will be able to explore the role of energy and methods used to control chemical reactions rate.								
④	d, h, i	Students will be able to define acids, bases, and salts, and identify the meaning of pH of a solution.								
⑤	d, h, i	Students will be able to explore redox reactions and their uses to drive an electrochemical process.								
⑥	d, h, i	Students will be able to identify hydrocarbons and the effects of functional groups on their properties.								
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
Comprehensive Strength Criteria	Ability to capture knowledge		15	10	4	0	0	5	4	0
	Ability to think, reason and create		15	10	4	0	0	5	4	0
	Collaboration and leadership		0	0	0	0	0	0	3	0
	Announcement / Expression / Communication		0	0	3	0	0	5	0	0
	Attitude and motivation for learning		0	0	4	0	0	5	4	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	-Final Exam is a cumulative exam for all taught chapters/topics.
	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: <ul style="list-style-type: none"> - Include lesson title, student`s full name and number at the top of each assignment page. - Submit self-checked answers of the assigned textbook and worksheet Qs on time - Turn in any other online assignment on Manaba or Pearson Realize on time. - A 10 % deduction is applied in the case of delay in submitting an assignment per one class delay.
	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.
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Grading criteria of this section are as follows: <ol style="list-style-type: none"> 1- Clear and organized class notes that show all the covered topics in class. 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 in all times. 5- Cleanliness of laboratory and hygiene that lead to efficiency in all procedures and class time.
	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. - Students are able to design and perform experiments safely to find solutions or propose an explanation. - Students are able to apply their problem-solving skills to solve complex problems whose solutions require multiple steps. - Students are able to 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. - Students are able to perform experiments safely, make observations, analyze given data and use scientific thinking to draw conclusions - Students are able to apply their problem-solving skills to solve problems whose solutions require multiple steps. - Students are able to 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 solved problems - Exercises	- Read Lesson 16.1 - Answer Lesson 16.1 Book and Workbook related Qs.	30 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 solved problems - Exercises	- Read Art of The Pickle p.532-533 - Answer Lesson 16.2 Book and Workbook related Qs.	30 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 solved problems - Exercises	- Read Lessons 16.3 and 16.4 - Answer Lesson 16.3 and lesson 16.4 Book and Workbook related Qs.	30 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 30
5 /	The Flow of Energy - Explain the ways in which 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 and summarize Lesson 17.1 - Answer Lesson 17.1 Book and Workbook related Qs.	30 30
6 /	Measuring and Expressing Enthalpy - Describe how to measure the change on 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 and Workbook related Qs	30 30
7 /	Heat Changes of State - Compare the quantity of heat absorbed by a melting solid to the quantity of heat released when the state of matter changes. - Describe the thermochemical changes that occur when a solution forms.	- Lecture - Quick Lab experiment to estimate the heat of fusion of ice.	- Read Lesson 17.3 - Answer Lesson 17.3 Book and Workbook Qs	30 30
8 /	Calculating Heats of Reaction - Identify two ways to determine the heat of reaction when it cannot be directly measured.	- Lecture - Small-Scale Lab	- Read Small-Scale Lab p. 583 - Answer Lesson 17.4 Book and Workbook related Qs - Prepare for Chapter 17 General Test.	30 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 Convertor and answer Lesson 18.1 Book and Workbook related Qs	30 30
10 /	The progress of Chemical Reactions - Describe the relationship between the value of the specific rate constant and the speed of a chemical reaction. - Describe how most reaction progress from start to finish.	- Lecture - Class activity	- Read Lesson 18.2 - Answer Lesson 18.2 Book and Workbook related Qs	30 30

Course Schedule

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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 - Teacher Demo - Exercises	- Read and Summarize Lesson 18.3 - Answer Lesson 18.3 Book and Workbook related Qs	30 30
12 /	Solubility Equilibrium - Describe the relationship between the solubility-product constant and the solubility of a compound. - Predict whether a precipitation will occur when two solutions are mixed.	- Lecture - Class activity	- Read and Summarize Lesson 18.4 - Answer Lesson 18.4 Book and Workbook related Qs	30 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 - Group Activity - Small-Scale Lab	- Read Small-Scale Lab p. 635 - Answer Lesson 18.5 Book and Workbook related Qs and - prepare for Chapter 18 General Test.	30 30
14 /	Acid-Base Theories - Define an acid and a base according to Arrhenius and Lewis. - Distinguish an acid from a base in Bronsted-Lowery theory.	- Chapter 18 General Test - Lecture - Group Activity	- Read and Summarize Lesson 19.1 - Answer Lesson 19.1 Book and Workbook related Qs	30 30
15 /	Hydrogen Ions and Acidity - Describe how $[H^+]$ and $[OH^-]$ are related in an aqueous solution. - Classify a solution as neutral, acidic, or basic using pH and identify two methods that are used to measure pH.	- Lecture - Quick Lab	- Read Lesson 19.2 - Read Quick Lab p. 662 - Answer Lesson 19.2 Book and Workbook related Qs	30 30
16 /	Strength of Acids and Bases - Describe how acids and bases are described as strong or weak.	- Lecture - Small-Scale Lab	- Read Lesson 19.3 - Read Small-Scale Lab p. 670 - Answer Lesson 19.3 Book and Workbook related Qs	30 30
17 /	Neutralization Reactions and Salts in Solutions - Identify the products that form when an acid and a base react. - Identify the equivalence point and the components of a buffer.	- Lecture - Teacher Demo	- Read Lessons 19.4 and 19.5 - Prepare for Chapter 19 General Test	30 30
18 /	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.	- Lecture - Quick Lab - Exercises	- Read Lesson 20.1 - Read Quick Lab p.699 - Answer Lesson 20.1 Book and Workbook related Qs - Read Fire Works p. 700.	30 30
19 /	Oxidation Numbers - State the general rules for assigning oxidation numbers. - Define oxidation and reduction in terms of a change in oxidation number.	- Lecture - Practice solved problems - Exercises	- Read Lesson 20.2 - Answer Lesson 20.2 Book and Workbook related Qs - Read Mineral Colors p. 716	30 30
20 /	Describing Redox Equations - Identify the two classes of chemical reactions. - Describe methods for balancing a redox equation.	- Lecture - Practice solved problems - Small-Scale Lab	- Read Lesson 20.3 - Read Small-Scale Lab p. 717 - Prepare for Chapter 20	30 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 /	Electrochemical Cells - Describe how a voltaic cell produces electrical energy. - Identify the current applications that use electrochemical processes to produce electrical energy.	- Chapter 20 General Test - Lecture - Teacher Demo	- Read and summarize Lesson 21.1 - Answer Lesson 21.1 Book and Workbook related Qs.	30 30
22 /	Half-Cells and Cell Potentials - Identify what causes the electrical potential of an electrochemical cell. - Determine the standard reduction potential of a half a cell and if a redox reaction is spontaneous or nonspontaneous.	- Lecture - Exercises - Group Activity	- Read Lesson 21.2 - Read A Lemon Battery p.744 - Answer Lesson 21.2 Book and Workbook related Qs.	30 30
23 /	Electrolytic Cells - Distinguish between electrolytic and voltaic cells. - Describe some applications that use electrolytic cells.	- Lecture - Quick Lab - Small Scale Lab	- Read Lesson 21.3 - Read Quick Lab p.750 and Small-Scale Lab p. 752 - Prepare for Chapter 21 General Test.	30 30
24 /	Hydrocarbons - Explain why a carbon atom forms four covalent bonds. - Identify two possible arrangements of carbon atoms in an alkane.	- Chapter 21 General Test - Lecture - Class Activity	- Read Lesson 22.1 - Answer Lesson 22.1 Book and Workbook related Qs.	30 30
25 /	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 - Quick Lab - Small-Scale Lab	- Read Lesson 22.2 and 22.3 - Read Quick Lab p. 778 and Small-Scale Lab p.787	30 30
26 /	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 the refining of petroleum.	- Lecture - Class Activity	- Read Lessons 22.4 and 22.5 - Prepare for Chapter 22 General Test.	30 30
27 /	Introduction to Functional Groups - Classify organic compounds. - Identify the general formula of a halocarbon. - Describe how substitutional reactions are used in organic chemistry.	- Chapter 22 General Test. - Lecture - Teacher Demo	- Read Lesson 23.1 - Answer Lesson 23.1 Book and Workbook related Qs	30 30
28 /	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 - Class activity	- Read Lesson 23.2 - Answer Lesson 23.2 Book and Workbook related Qs Read	30 30
29 /	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 - Teacher Demo	- Read Lessons 23.3 and 23.4 - Prepare for Chapter 23 General Test.	30 30
30 /	General Review - Review Chapter 16, 17, 18, 19, 20, 21, 22 and 23	- Chapter 23 General Test - Evaluating and reflecting on the progress of own learning. - School Questionnaire	- Prepare for the Final Exam - Finalize the Portfolio	

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)
31 /	Final Exam	- Evaluating the progress of own learning.		
32 /	Final Exam Return	- Return the graded exams and portfolios - Evaluating and reflecting on the progress of own learning.		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Biology IIA	1	504500	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	DE TILLY, Jason STEVENSON, Ian	Hakusanroku C: 101.201			Monday to Friday: 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Anatomy	Students will be able to understand the basic principles of homeostasis, be able to learn basic animal anatomy, be able to understand the basic physiology of different animal groups, be able to understand the concepts mammalian physiology, be able to understand the role of the environment and its connection to animal physiology and able to understand the relationships between the different organ systems.							
2	Physiology								
3	Homeostasis								
4	Enzyme								
5	Hormone								
Course Description and Expectations for Students									
<p>This lecture is a study credit subject, so one credit should have 45 50 minutes lessons, and require 30 “self-study” times 15 50 minutes classes. In order to achieve the objectives of the course, classes will usually be divided into three main parts: a short review of the previous at the beginning of the class, an interactive lecture about the lesson’s topic and finally, some class time to complete the lesson’s worksheet, which can be done in teams. PowerPoint presentations will accompany each class and will be available before each class. Homework will consist of completing each class’ worksheet and handing it in by the following class.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
<p>Textbooks: Biology Concepts and Investigation 4th edition, Hoefnagels Reference books: Campbell biology 11th Edition, Lisa A Urry [et.al], Pearson, 2017</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students							
①	h, i	Students will be able to understand the basic principles of homeostasis.							
②	h, i	Students will be able to learn basic animal anatomy.							
③	h, i	Students will be able to understand the basic physiology of different animal groups.							
④	h, i	Students will be able to understand the concepts mammalian physiology.							
⑤	h, i	Students will be able to understand the role of the environment and its connection to animal physiology.							
⑥	h, i	Students will be able to understand the relationships between the different organ systems.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	30	0	20	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	12	12	0	2	0	7	0	33
	Ability to think, reason and create	12	12	0	2	0	7	0	33
	Collaboration and leadership	0	0	0	7	0	3	0	10
	Announcement / Expression / Communication	0	0	0	7	0	0	0	7
	Attitude and motivation for learning	6	6	0	2	0	3	0	17

※ 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	✓	The final examination will be a paper examination covering the subject matter seen in the second half of the semester after the midterm test.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	The midterm test will be a paper test covering the subject matter seen in the first half of the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	✓	There will be a presentation at the end of the semester before the final examination. It will be done in teams on a topic chosen by the students. However, the topic must be related to the subject matter seen during the course of the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	There will be a worksheet to complete every class on the subject matter taught in that class. This can be completed in class or as homework by the following class. This will count for 10% of the total grade. Students will have a 10% penalty for every late business day the student failed to hand in the worksheet. Students' notebooks will also be evaluated by the biology teacher for content and for organization. This will count for 10% of the total grade. Late notebooks will not be evaluated and thus will have a grade of 0% for that week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will be able to name basic anatomical structures in animals and will be able to describe the physiology of different organ systems. Students will understand the basics of homeostasis and how organisms can maintain balance with depending on their environment. Students will draw connections between the relationships of the different organ systems in the different organisms in the animal kingdom and how those organ systems achieve homeostasis.	Students will be able to name basic anatomical structures in animals and will be able to describe the physiology of different organ systems. Students will understand the basics of homeostasis and how organisms can maintain balance with depending on their environment.

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 /	Students will describe the basic concepts of regulation and homeostasis in organisms.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
2 /	Students will describe the basic anatomical structures and physiological concepts related to the digestive system in animals, mostly in mammals. (Part one)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
3 /	Students will describe the basic anatomical structures and physiological concepts related to the digestive system in animals, mostly in mammals. (Part two)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
4 /	Students will describe the basic anatomical structures and physiological concepts related to the respiratory system in animals, mostly in mammals. (Part one)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
5 /	Students will describe the basic anatomical structures and physiological concepts related to the respiratory system in animals, mostly in mammals. (Part two)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
6 /	Students will describe the basic anatomical structures and physiological concepts related to the circulatory system in animals, mostly in mammals. (Part one)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
7 /	Students will describe the basic anatomical structures and physiological concepts related to the circulatory system in animals, mostly in mammals. (Part two)	Lecture & Active Learning	Prepare for the midterm test.	30
8 /	Students will describe the basic anatomical structures and physiological concepts related to the urinary/renal system in animals, mostly in mammals.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
9 /	Students will take a test on the subject matter taught until the circulatory system lesson. After the test, students will describe the basic anatomical structures and physiological concepts related to the reproductive systems in animals, mostly in humans. (Part one)	Midterm Test, Lecture & Active Learning	Reading and taking notes on the next class' content.	30
10 /	The Students will get their midterm test back with some feedback. Students will describe the basic anatomical structures and physiological concepts related to the reproductive systems in animals, mostly in humans. (Part two)	Lecture & Active Learning	Reading and taking notes on the next class' content.	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Students will describe the basic anatomical structures and physiological concepts related to the immune system in animals, mostly in mammals.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
12 /	Students will describe the basic anatomical structures and physiological concepts related to the nervous system in animals, mostly in mammals.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
13 /	Students will describe the basic anatomical structures and physiological concepts related to the skeletal and muscular systems in animals, mostly in mammals.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
14 /	Students will research and prepare for their presentation.	Research & Active Learning	Prepare for next class' presentation.	30
15 /	Students will present a topic in teams related to what they have learned in class this semester.	Active Learning & Active Listening	Prepare for the final examination.	30
16 /	Final Exam	Final examination	N/A	N/A
17 /	Final Exam Return	Receive corrected final examination	N/A	N/A

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Biology IIB	1	504600	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	GATRI, Dorsaf STEVENSON, Ian	Hakusanroku C: 101.201			Monday to Friday: 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Phylogeny	Students will be able to learn about the periods of earth's history, be able to understand how life most likely appeared, be able to learn about the different levels of organizations of life, be able to learn the basic characteristics about the organisms in the different taxonomic ranks, be able to understand the basic evolution processes between the different taxonomic ranks and be able to understand the relationships between the different taxonomic ranks.							
2	Taxonomy								
3	Evolution								
4	Kingdom								
5	Species								
Course Description and Expectations for Students									
<p>This lecture is a study credit subject, so one credit should have 45 50 minutes lessons, and require 30 “self-study” times 15 50 minutes classes. In order to achieve the objectives of the course, classes will usually be divided into three main parts: a short review of the previous at the beginning of the class, an interactive lecture about the lesson's topic and finally, some class time to complete the lesson's worksheet, which can be done in teams. PowerPoint presentations will accompany each class and will be available before each class. Homework will consist of completing each class' worksheet and handing it in by the following class.</p>									
【Required Materials (textbooks, reference books, reserved books)】									
<p>Textbooks: Biology Concepts and Investigation 4th edition, Hoefnagels Reference books: Campbell biology 11th Edition, Lisa A Urry [et.al], Pearson, 2017</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Basic computer skills and basic note taking skills.									
No.	Program Objectives	Target Abilities for Students							
①	h, i	Students will be able to learn about the periods of earth's history.							
②	h, i	Students will be able to understand how life most likely appeared on earth.							
③	h, i	Students will be able to learn about the different levels of organizations of life.							
④	h, i	Students will be able to learn the characteristics about the organisms in the different taxonomic ranks.							
⑤	h, i	Students will be able to understand the basic evolution processes between the different taxonomic ranks.							
⑥	h, i	Students will be able to understand the relationships between the different taxonomic ranks.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	30	0	20	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	12	12	0	2	0	7	0	33
	Ability to think, reason and create	12	12	0	2	0	7	0	33
	Collaboration and leadership	0	0	0	7	0	3	0	10
	Announcement / Expression / Communication	0	0	0	7	0	0	0	7
	Attitude and motivation for learning	6	6	0	2	0	3	0	17

※ 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		The final examination will be a paper examination covering the subject matter seen in the second half of the semester after the midterm test.
	②		
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	The midterm test will be a paper test covering the subject matter seen in the first half of the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①	✓	There will be a presentation at the end of the semester before the final examination. It will be done in teams on a topic chosen by the students. However, the topic must be related to the subject matter seen during the course of the semester.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	✓	There will be a worksheet to complete every class on the subject matter taught in that class. This can be completed in class or as homework by the following class. This will count for 10% of the total grade. Students will have a 10% penalty for every late business day the student failed to hand in the worksheet. Students' notebooks will also be evaluated by the biology teacher for content and for organization. This will count for 10% of the total grade. Late notebooks will not be evaluated and thus will have a grade of 0% for that week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will be able to describe the different periods of earth's history and how life most likely appeared on earth. Students will be able to describe the main characteristics, adaptations and differences between the organisms of the different taxonomic ranks. Students will be able to understand the basic timeline of the evolution of life on earth. Students will draw connections between the different environments on earth and the different adaptations organisms between the different taxonomic ranks have adopted.	Students will be able to describe the different periods of earth's history and how life most likely appeared on earth. Students will be able to describe the main characteristics, adaptations and differences between the organisms of the different taxonomic ranks. Students will be able to understand the basic timeline of the evolution of life on earth.

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 /	Students will describe the basic concepts of taxonomy and how organisms are classified. Students will also describe the different periods in earth's history and how life on earth most likely appeared. (Part one)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
2 /	Students will describe the basic concepts of taxonomy and how organisms are classified. Students will also describe the different periods in earth's history and how life on earth most likely appeared. (Part two)	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
3 /	Students will describe the basic characteristics of viruses, bacteria, archaea and the different groups of protists.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
4 /	Students will describe the basic characteristics between the different groups of plants.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
5 /	Students will describe the basic characteristics between the different groups of fungi.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
6 /	Students will describe the shared basic characteristics of organisms in the animal kingdom.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
7 /	Students will take a test on the subject matter taught to this point. After the test, students will describe the basic characteristics between the different groups of sponges, cnidarians, flatworms and mollusks.	Midterm Test, Lecture & Active Learning	Prepare for the midterm test.	30
8 /	The Students will get their midterm test back with some feedback. Students will dissect a rat in teams and will identify its different organs.	Lecture, Dissection & Active Learning	Reading and taking notes on the next class' content.	30
9 /	Students will describe the basic characteristics between the different groups of annelids, roundworms and echinoderms.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
10 /	Students will describe the basic characteristics between the different groups of arthropods.	Lecture & Active Learning	Reading and taking notes on the next class' content.	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	Method	Assignments (Preview and Review)	Time (Minutes)
11 /	Students will describe the shared basic characteristics of chordates. Students will also describe the basic characteristics between the different groups of fish.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
12 /	Students will describe the basic characteristics between the different groups of amphibians and reptiles.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
13 /	Students will describe the basic characteristics between the different groups of birds and mammals.	Lecture & Active Learning	Reading and taking notes on the next class' content.	30
14 /	Students will prepare their presentation for the following week	Group work & Active Learning	Prepare for next class' presentation.	30
15 /	Students will present a topic in teams related to what they have learned in class this semester.	Active Learning & Active Listening	Prepare for the final examination.	30
16 /	Final Exam	Final examination	N/A	N/A
17 /	Final Exam Return	Receive corrected final examination	N/A	N/A

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing II A (Reading Strategy)		1	504900	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			In the reading class, it 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 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語レベル聞いて覚えるコーパス英単語、アルク文京編集部企画・編集(アルク社)「10分間英語速読トレーニングLevel3,4」(桐原書店) Reserved books: Reading Power Series									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	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 graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session 10% : Online Discussion (Manaba) The results will be returned in class in the following week.
	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. (Writing) Complete and submit all writing exercises, and drafts. Complete 2 essay for grading
	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	Lecture Exercise	Read the syllabus Study vocabulary	20
2 /	Scanning Quiz	Lecture Exercise	Speed Reading L1-2 Review reading skills	30
3 /	Collocations	Lecture Exercise	Speed Reading L3-4 Review reading skills	30
4 /	Collocations Quiz	Lecture Exercise	Speed Reading L5-6 Review reading skills	30
5 /	Focusing on the Topic	Lecture Exercise	Speed Reading L7-8 Review reading skills	30
6 /	Learning about Context Quiz	Lecture Exercise	Speed Reading L9-10 Review reading skills	30
7 /	Focusing on the Topic Quiz	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
8 /	Understanding Paragraphs	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
9 /	Understanding Paragraphs Quiz	Lecture Exercise	Speed Reading L15-16 Review reading skills	30
10 /	IELTS Strategies	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 /	IELTS Strategies	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
12 /	IELTS Strategies	Lecture Exercise	Speed Reading L21-22 Review reading skills	30
13 /	Identifying the Patterns	Lecture Exercise	Speed Reading L23-24 Review reading skills	30
14 /	Identifying the Patterns	Lecture Exercise	Review reading skills	30
15 /	Identifying the Patterns Quiz	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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing II A (Focus on Writing)		1	504900	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	BAIRD, Pauline		Hakusanroku C:101. 201				Thursday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading			In the reading class, it 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)									
<p>This course is divided into 2 sections; Reading Strategy and Writing.</p> <p>Writing: Workshops, Mini-lecture, exercises You need to submit first and final drafts of paragraphs at the end of each module. Other writing exercises are due at the end of each lesson. Unfinished assignments must be completed and turned in by 9:30 pm to a Learning Mentor.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: None (Handouts) Reference books: <i>Ready to Write 3: Essential Online Resources</i> by K. Blanchard and C. Root, Pearson, 2016. 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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	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 graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session 10% : Online Discussion (Manaba) The results will be returned in class in the following week.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	(Reading) Complete the handouts and submit in time. (Writing) Complete and submit all writing exercises, and drafts. The graded assignments will be returned the following day in 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. Module 1: Descriptive Writing: ① Formatting an academic paragraph/essay.	Workshop, pair, individual, and group work.	Review and complete assignments	30
2 /	Descriptive Writing: ② Annotate descriptive paragraphs and identify the features and structures, topic sentences, and organization strategies.	Workshop, pair, individual, and group work.	Review and complete assignments	30
3 /	Descriptive Writing: ③ Annotate descriptive paragraphs and identify the features and structures; Write topic sentences, and organize an essay	Workshop, pair, individual, and group work.	Review and complete assignments	30
4 /	Descriptive Writing: ④ Annotate descriptive paragraphs and identify supporting details/sentences, concluding points	Conferencing and peer reviewing.	Review and complete assignments	30
5 /	Expressing Opinions ② Describe personality, appearance, background information	Workshop, pair, individual, and group work.	Review and complete assignments	30
6 /	Expressing Opinions ③ Describe a company, product, personal item. Brainstorming, Drafting 1	Conferencing and peer reviewing.	Review and complete assignments	30
7 /	Expressing Opinions ③ Drafting 2 and Conferencing	Conferencing and peer reviewing.	Review and complete assignments	30
8 /	Module 2: Narrative Writing ① Identify and discuss key features of a narrative in an inventor's biography. <i>Return graded reports to students</i>	Workshop, pair, individual, and group work.	Review and complete assignments	30
9 /	Narrative Writing ② Compose a short personal narrative	Workshop, pair, individual, and group work.	Review and complete assignments	30
10 /	Narrative Writing ③ Drafting and conferencing	Conferencing and peer reviewing.	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 /	Module 3: Problem-Solution ① Grammar for writing problem-solution paragraph (ought to, must, have to, need to, phrasal verbs, <i>Return graded reports to students</i>	Workshop, pair, individual, and group work.	Review and complete assignments	30
12 /	Problem-solution ② Annotating and Discussion a model essay	Workshop, pair, individual, and group work.	Review and complete assignments	30
13 /	Problem-solution ③ Brainstorm, map ideas, draft	Workshop, pair, individual, and group work.	Review and complete assignments	30
14 /	Problem-solution ④ Writing a draft Rough Draft Conferencing	Conferencing and peer reviewing.		30
15 /	Problem-solution ⑤ Turn in a second draft. <i>Return graded reports to students</i>	Conferencing and peer reviewing.	Review and complete assignments	30
16 /	Final Exam	Review and evaluate your progress and understanding	Review the final exam	30
17 /	Final Exam Return			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing II B (Reading Strategy)		1	505000	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			In the reading class, it 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)									
<p>This course is divided into 2 sections; Reading Strategy and Writing.</p> <p>(Reading Strategy) Lecture, exercise You need to submit all the handouts after a quiz.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: None (Handouts)</p> <p>Reference books: キクタン【Advanced】600語レベル聞いて覚えるコーパス英単語.アルク文京編集部企画・編集.(アルク社)「10分間英語速読トレーニングLevel.3.4」(桐原書店)</p> <p>Reserved books: Reading Power Series</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>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.</p>									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	✓	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 graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session 10% : Online Discussion (Manaba) The results will be returned in class in the following week.
	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. (Writing) Complete and submit all writing exercises, and drafts. Complete 2 essay for grading
	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 Quiz (IELTS Strategies)	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 Quiz	Lecture Exercise	Speed Reading L11-12 Review reading skills	30
8 /	IELTS Writing Quiz	Lecture Exercise	Speed Reading L13-14 Review reading skills	30
9 /	Skimming	Lecture Exercise	Speed Reading L15-16 Review reading skills	30
10 /	Skimming Quiz	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 /	Guessing the meaning from Context	Lecture Exercise	Speed Reading L19-20 Review reading skills	30
12 /	Guessing the meaning from Context Quiz	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 Quiz	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			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Reading and Writing II B (Focus on Writing)		1	505000	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	BAIRD, Pauline		Hakusanroku C:101. 201				Thursday 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Reading		In the reading class, it 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)									
<p>This course is divided into 2 sections; Reading Strategy and Writing.</p> <p>Writing: Workshops, Mini-lecture, exercises You need to submit first and final drafts of paragraphs at the end of each module. Other writing exercises are due at the end of each lesson. Unfinished assignments must be completed and turned in by 9:30 pm to a Learning Mentor.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: None (Handouts)</p> <p>Reference books: <i>Ready to Write 3: Essential Online Resources</i> by K. Blanchard and C. Root, Pearson, 2016.</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>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.</p>									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		10	60	30	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	10	50	20	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	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 graded writing assignment will be given after each skill is practiced. 10% : Speed reading homework (Manaba) 10% : Vocabulary quiz (KIKUTAN) in Learning Session 10% : Online Discussion (Manaba) The results will be returned in class in the following week.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	(Reading) Complete the handouts and submit in time. (Writing) Complete and submit all writing exercises, and drafts. The graded assignments will be returned the following day in 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. Module 1: Expression Opinions ① Annotating and Editing, identify parenthetical clauses, write sample sentences.	Workshop, pair, individual, and group work.	Review and complete assignments	30
2 /	Expressing Opinions ② Annotating and Editing: Expanding and trimming sentences	Workshop, pair, individual, and group work.	Review and complete assignments	30
3 /	Expressing Opinions ③ Grammar for Writing: adjective clauses Read and discuss model essay	Workshop, pair, individual, and group work.	Review and complete assignments	30
4 /	Expressing Opinions ④ Review key features of a expressing an opinion. Introductory clauses	Conferencing and peer reviewing.	Review and complete assignments	30
5 /	Expressing Opinions ⑤ Designing thesis statements, topic sentences, outlines, introduction	Workshop, pair, individual, and group work.	Review and complete assignments	30
6 /	Expressing Opinions ⑥ Writing a draft and peer-reading	Workshop, pair, individual, and group work.	Review and complete assignments	30
7 /	Expressing Opinions ⑦ Rough Draft Conferencing	Conferencing and peer reviewing.	Review and complete assignments	30
8 /	Module 2 Writing a Journal ① Grammar for writing-compound subjects, compound verbs, vocabulary building <i>Return graded reports to students</i>	Workshop, pair, individual, and group work.	Review and complete assignments	30
9 /	Writing a Journal ② Draft a journal entry Peer-review and proofreading	Workshop, pair, individual, and group work.	Review and complete assignments	30
10 /	Module 3 Division and Classification ① Grammar for Writing: active and passive voice, Modals	Workshop, pair, individual, and group work	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 /	Division and Classification ② Annotate and identify key features of a division and classification essay	Workshop, pair, individual, and group work.	Review and complete assignments	30
12 /	Division and Classification ③ Comprehension of essay, cloze	Workshop, pair, individual, and group work.	Review and complete assignments	30
13 /	Module 4 Writing a Summary ① Verb tense, pronouns, time expressions, and location phrases, appositives, reported speech. <i>Return graded reports to students</i>	Workshop, pair, individual, and group work.	Review and complete assignments	30
14 /	Writing a Summary ② Writing a draft Rough Draft Conferencing	Conferencing and peer reviewing.		30
15 /	Writing a Summary ③ Turn in a second draft. <i>Return graded reports to students</i>	Workshop, pair, individual, and group work.	Review and complete assignments	30
16 /	<i>Return graded reports to students</i> Final Exam	Review and evaluate your progress and understanding	Review the final exam	30
17 /	Final Exam Return			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	English Listening and Speaking II A	1	505300	First	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	TAYLOR, James BASQUILL, Edward	Hakusanroku C:101.201			M-F 16:30 – 17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Business English	Students will develop the oral communication abilities needed to complete a variety of projects in a simulated business environment. Students will work in groups to carry out market research, give a group presentation, make an advertising campaign, write a CV and cover letter or email, and complete a mock job interview. Students will also consider the cultural differences in different workplaces.							
2	Group communication								
3	Project work								
4	Cultural awareness								
5	Presentation skills								
Course Description and Expectations for Students (10.5pt)									
Come to class prepared to work and to speak English. Work closely and communicate with your group mates. Help each other as much as possible, and do not be afraid to ask the teacher for help if you need it. Missing deadlines will disrupt your progress and prevent you from achieving a high grade and will stop your group mates from completing their work, so complete tasks when they are assigned and submit them on time. Respect others' ideas and opinions.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Widgets Inc.</i> Marcos Benevides & Chris Valvona. (Atama-ii Books, 2nd edition.) 2018.									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Ability to express one's own ideas in English. Ability to work in a group with a variety of different people. Work ethic to complete tasks on time. Desire to improve speaking and listening skills through asking for help and responding to feedback.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b, h	Students will be able to use English for business and academic purposes.							
②	c, d, e	Students will be able to improve their ability to work in groups with different people.							
③	a, d, g	Students will be able to complete a variety of projects.							
④	a, g, h	Students will be able to use technology to complete their projects.							
⑤	b, e	Students will be able to recognize how cultural differences can affect the workplace.							
⑥	g, i	Students will be able to further develop their study skills.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	25	25	50	0	0	0	100
Comprehensive Strength Criteria	Total Evaluation Ratio	0	25	25	50	0	0	0	100
	Ability to capture knowledge	0	5	5	10	0	0	0	20
	Ability to think, reason and create	0	5	5	10	0	0	0	20
	Collaboration and leadership	0	5	5	10	0	0	0	20
	Announcement / Expression / Communication	0	5	5	10	0	0	0	20
Attitude and motivation for learning	0	5	5	10	0	0	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	✓
	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 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 /	Stage 4: Introduction & Know Your Market pp. 40-43	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
2 /	Stage 4: Asking the Right Questions pp. 44-47	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
3 /	Stage 4: The Focus Group p. 48	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
4 /	Stage 4: Analysis and Report pp. 49-51	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
5 /	Stage 4: Prepare Your Presentation pp. 52-53	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
6 /	Stage 4: Break a Leg! p. 54	Individual, pair and group work using worksheets, textbook and technology	Record a VoiceThread reflecting on Stage 4.	30
7 /	Stage 5: Get the Word Out pp. 56-59	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
8 /	Stage 5: Media Blitz pp. 60-62	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
9 /	Stage 5: Prepare a Video Commercial pp. 63-65	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
10 /	Stage 5: Bringing It All Together pp. 66-69	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	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 /	Stage 5: The Main Event p. 70	Individual, pair and group work using worksheets, textbook and technology	Record a VoiceThread reflecting on Stage 5.	30
12 /	Stage 6: Don't Sell Yourself Short pp. 72-75	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
13 /	Stage 6: Write a Resume and Cover Letter pp. 76-79	Individual, pair and group work using worksheets, textbook and technology	Complete classwork.	30
14 /	Stage 6: The Interview pp. 80-82	Individual, pair and group work using worksheets, textbook and technology	Record a VoiceThread reflecting on Stage 6.	30
15 /	End of Semester Review	Individual, pair and group work using worksheets, textbook and technology		30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		English Listening and Speaking II B		2	505400	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	STEVENSON, Ian BASQUILL, Edward		Hakusanroku C101.201				(M-F) 16:30-17:30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Listening			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.					
2	Speaking								
3	Communication								
4	Study skills								
5									
Course Description and Expectations for Students (10.5pt)									
Students will develop the oral communication abilities needed to learn effectively in their classes taught in academic English, as well as to be able to function socially in an English-speaking environment. Upon completion of this class, students will be able to talk about things they like or dislike, their hobbies and to describe people, things, events and places using a variety of study skills/techniques such as note taking, research, listening, and asking questions in class. Also, students will improve their understanding of topics and vocabulary used in their classes.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: <i>Perspectives 4 (Advanced): National Geographic Learning</i> by (Eds). Lewis Lansford, Daniel Barber, Amanda Jefferies									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Ability to communicate about personal activities and events such as work, school, daily life, and leisure.									
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	h, d	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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	30	40	30	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	15	10	10	0	0	0	35
	Ability to think, reason and create	0	15	10	0	0	0	0	25
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	10	10	0	0	0	20

	Attitude and motivation for learning	0	0	0	10	0	0	0	10
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* 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	<p>There are 10 quizzes. Each quiz will be given after 2 classes. Feedback will be given during the next class session and/or on Manaba.</p>	
	②		✓
	③		
	④		✓
	⑤		✓
	⑥		
Reports	①	<p>Students will make voice recordings to practice speaking. Teachers will assign the topics and students may be asked to speak for 1, 2, 3, up to 8 minutes. Students will complete their assignments outside of class. Feedback will be given during the next class session and/or on Manaba.</p>	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Presentations	①	<p>Presentations are special projects. Students will decide on their topics or their teachers may assign them. Students will complete a semi-final and final project for grading. Feedback will be given during the next class session and/or on Manaba.</p>	
	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 develop their interest in learning new things based on their preference and their ability to apply the knowledge and skills learned to improve their performance in STEM classes.	Students address their weaknesses in STEM classes and lay a necessary foundation for success in STEM.

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 /	Unit 1 – Hopes and Dreams	Lecture & Active Learning	Read the syllabus Study vocabulary	30
2 /	Voice Thread Unit 1 – Continued	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
3 /	Unit 1 - Quiz 1 Voice Thread	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
4 /	Unit 2 – Reading the World	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
5 /	Unit 2 - Continued	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
6 /	Unit 2 - Quiz 2 Speaking Project 1	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
7 /	Unit 3 – Pristine Places	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
8 /	Unit 3 – Continued	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
9 /	Unit 3 – Quiz 3 Speaking Project 2	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
10 /	Unit 4 - Discovery	Lecture & Active Learning	Learn and practice English speaking/listening 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 /	Unit 4 – Continued	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
12 /	Unit 4 - Quiz 4 Speaking Project 3	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
13 /	Unit 5 – Global Citizens	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
14 /	Unit 5 - Continued	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
15 /	Unit 5 - Quiz 5 Speaking Project 4	Lecture & Active Learning	Learn and practice English speaking/listening skills	30
16 /	Unit 6 – Education	Lecture and Active Learning	Learn and practice English speaking/listening skills	
17 /	Unit 6 - Continued	Lecture and Active Learning	Learn and practice English speaking/listening skills	
18 /	Unit 6 - Quiz 6 Speaking Project 5	Lecture and Active Learning	Learn and practice English speaking/listening skills	
19 /	Unit 7 – Moving Forward	Lecture and Active Learning	Learn and practice English speaking/listening skills	
20 /	Unit 7 - Continued	Lecture and Active Learning	Learn and practice English speaking/listening skills	

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 /	Unit 7 - Quiz 7 Speaking Project 6	Lecture and Active Learning	Learn and practice English speaking/listening skills	
22 /	Unit 8 – The Real Me	Lecture and Active Learning	Learn and practice English speaking/listening skills	
23 /	Unit 8 - Continued	Lecture and Active Learning	Learn and practice English speaking/listening skills	
24 /	Unit 8 - Quiz 8 Speaking Project 7	Lecture and Active Learning	Learn and practice English speaking/listening skills	
25 /	Unit 9 – A Healthy Life	Lecture and Active Learning	Learn and practice English speaking/listening skills	
26 /	Unit 9 - Continued	Lecture and Active Learning	Learn and practice English speaking/listening skills	
27 /	Unit 9 - Quiz 9 Speaking Project 8	Lecture and Active Learning	Learn and practice English speaking/listening skills	
28 /	Unit 10 – Ideas	Lecture and Active Learning	Learn and practice English speaking/listening skills	
29 /	Unit 10 - Continued	Lecture and Active Learning	Learn and practice English speaking/listening skills	
30 /	Unit 10 - Quiz 10 End of Semester Review	Lecture and Active Learning	Learn and practice English speaking/listening skills	

令和3年度 学習支援計画書

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 必修		日本語II	2	505800	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	潟辺 豊 黒田 譜美		白山麓C: 101.201			潟辺 月曜 16:30-17:30 黒田 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	日本語		この授業では、履修学生の既習日本語能力を勘案の上、日本での生活上のニーズを満たし、より円滑なコミュニケーションができるようになるために、漢字・語彙・表現などの知識を増強し、特に読解力と作文能力の向上に取り組む。また、ニュース記事や古典・文学教材なども利用して、幅広い日本文化・社会的な能力も身につける。						
2	コミュニケーションスキル								
3	漢字・語彙・表現知識								
4	日本文化・社会								
5									
授業の概要および学習上の助言									
成績は、潟辺50%、黒田50%の配分で担当し、各評価項目については以下のように按分する。									
クイズ/小テスト ; 潟辺40% 黒田 15% レポート ; 黒田 10% 成果発表/口頭・実技 ; 潟辺10% 黒田 10% ポートフォリオ 黒田 25%									
【教科書および参考書・リザーブドブック】									
教科書： 参考書：奥山貴之、宇津木奈美子、東会娟『考える人の【上級】日本語読解』凡人社、2020 リザーブドブック：									
履修に必要な予備知識や技能									
<ul style="list-style-type: none"> ・語彙や漢字について助けを得ながら、文章の大意を読み取る力 ・書き言葉と話し言葉の区別 									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	f	語彙や漢字の習得に積極的に努める。							
②	f	表記の仕方や文のくぎり方などを理解し、わかりやすい文章を書くことができる。							
③	f, e	日本文化や社会に関する評論を読み、自分の意見を述べるができる。							
④	f, e	日本の文学作品を読み、優れた表現や描写を味わうことができる。							
⑤	f, e	言葉遊びや創作に取組み、表現を工夫して創作できる。							
⑥	f	日本語を用いて成果発表ができる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	45	10	20	0	25	0	100
総合力指標	知識を取り込む力	0	20	0	5	0	5	0	30
	思考・推論・創造する力	0	20	5	5	0	5	0	35
	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	5	5	10	0	5	0	25
	学習に取り組む姿勢・意欲	0	0	0	0	0	10	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	レ
	②	レ
	③	
	④	
	⑤	
	⑥	
レポート	①	レ
	②	
	③	レ
	④	レ
	⑤	
	⑥	レ
成果発表 (口頭・実技)	①	
	②	
	③	
	④	
	⑤	
	⑥	
作品	①	
	②	
	③	
	④	
	⑤	
	⑥	
ポートフォリオ	①	レ
	②	レ
	③	レ
	④	レ
	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
<p>語彙や漢字の習得に積極的に努め、実践的に使うことができる。</p> <p>表記の仕方や文のくぎり方など文章表現の基礎を正確に理解している。</p> <p>評論を正確に読み、自分の意見を明快に述べることができる。</p> <p>文学作品を正確に読み、優れた表現や描写を味わうことができる。</p> <p>言葉遊びや創作に積極的に取り組み、表現を工夫して創作できる。</p> <p>効果的な表現を用いて成果発表ができる。</p>	<p>語彙や漢字の習得に積極的に努めることができる。</p> <p>表記の仕方や文のくぎり方などを理解することができる。</p> <p>評論を読み、自分の意見を述べるすることができる。</p> <p>文学作品を読み、優れた表現や描写を味わうことができる。</p> <p>言葉遊びや創作に取り組み、表現を工夫して創作できる。</p> <p>日本語を用いて成果発表ができる。</p>

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、Good Work!」：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ください。

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 /	黒田担当：ガイダンス 世界のなかの日本語 ・日本語の音声、文法、語彙、表記の特徴を理解する。	科目ガイダンス 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 /	瀧辺担当：ガイダンス プレゼンソフトを利用して自己紹介の準備をする。	教員の自己紹介を参考に各自作成する。 評価規準の提示	復習：プレゼンの練習をする。	30
3 /	黒田担当： ・漢字表記の方法・符号の使い方を理解する。	講義と質疑 プリント配布	予習：表記の方法について調べる。 復習：配布物・ノートを見直す。	30
4 /	瀧辺担当： 「自己紹介」 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ プレゼン発表 評価シート記入 伴奏に合わせて歌唱	予習：言葉クイズに備える。	30
5 /	黒田担当： 長文読解 言語と向き合う：私の名は ・課題文を正しく読解し、設問に答える。	講義と質疑 プリント配布	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
6 /	瀧辺担当： 「文章表現の基礎1」 表記の仕方について理解する。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 演習シート「表記の仕方」 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	30
7 /	黒田担当： 長文読解 言語と向き合う：多言語状況を考える ・課題文を正しく読解し、設問に答える。	講義と質疑 プリント配布	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
8 /	瀧辺担当： 「文章表現の基礎2」 語句の用法と文の区切り方について理解する。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 演習シート「語句の用法と文の区切り方」 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	30
9 /	黒田担当： 長文読解 貿易とグローバル化：貿易の基本原則 ・課題文を正しく読解し、設問に答える。	小テスト①漢字 講義と質疑 プリント配布	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
10 /	瀧辺担当： 「文章表現の基礎3」 文章のリフォームについて理解する。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 演習シート「文章のリフォーム」 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	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)
11 /	黒田担当： 長文読解 貿易とグローバル化：グローバル化とどう向き合うか ・課題文を正しく読解し、設問に答える。	講義と質疑 プリント配布 小テスト返却	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
12 /	瀧辺担当： 「文章表現の基礎4」 わかりやすい説明の方法について理解する。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 演習シート「わかりやすい説明の方法。」 伴奏に合わせて歌唱。	予習：言葉クイズに備える。	30
13 /	黒田担当： 長文読解 ゲームと人と社会と私：ゲームの今と将来 ・課題文を正しく読解し、設問に答える。	小テスト②漢字 講義と質疑 プリント配布	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
14 /	瀧辺担当： 小テスト「文章表現の基礎」 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	小テスト 伴奏に合わせて歌唱 小テスト返却	予習：小テストに備える。	30
15 /	黒田担当： 長文読解 ゲームと人と社会と私：ゲームは悪影響を及ぼすのか？ ・課題文を正しく読解し、設問に答える。	ポートフォリオ①（長文読解）提出 講義と質疑 プリント配布	予習：本文を通読する。 復習：配布物・ノートを見直す。	30
16 /	瀧辺担当： 小説「羅生門」（芥川龍之介）の読解① 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 音読 課題シート「羅生門」① 講義「羅生門」第一段落 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	30
17 /	黒田担当： 言葉遊び ・アクロスティック・アナグラムを理解し、実際に創ることができる。	小テスト③漢字 講義と質疑 プリント配布 ポートフォリオ①（長文読解）返却	予習：言葉遊びについて調べる。 復習：配布物・ノートを見直す。	30
18 /	瀧辺担当： 小説「羅生門」の読解② 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 音読 課題シート「羅生門」② 講義「羅生門」第二段落 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	30
19 /	黒田担当： 漢字パズル ・漢字パズルに取り組むことによって、漢字の部首、読み方などについての知識を確認し、漢字という文字と漢字文化に関心をもつ。	ポートフォリオ②（創作）提出 講義と質疑 プリント配布 小テスト返却	予習：言葉遊びについて調べる。 復習：配布物・ノートを見直す。	30
20 /	瀧辺担当： 小説「羅生門」の読解③ 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 音読 課題シート「羅生門」③ 講義「羅生門」第三段落 伴奏に合わせて歌唱	予習：言葉クイズに備える。	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)
21 /	黒田担当： レトリック ・ 比喩、倒置法、押韻などの表現方法を理解する。	講義と質疑 プリント配布 ポードフォリオ②(創作)返却	予習：レトリックについて調べる。 復習：配布物・ノートを見直す。	30
22 /	瀧辺担当： 小説「羅生門」の読解④ 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	言葉クイズ 音読 課題シート「羅生門」④ 講義「羅生門」第四段落 伴奏に合わせて歌唱 小テスト返却	予習：言葉クイズに備える。	30
23 /	黒田担当： 絵から物語を創る I ・ 物語の基本構造を理解する ・ 4枚のカードから物語を創る。	講義と質疑 プリント配布	予習：物語創作について調べる。 復習：配布物・ノートを見直す。	30
24 /	瀧辺担当： 小テスト「羅生門」 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	小テスト 伴奏に合わせて歌唱 小テスト返却	予習：小テストに備える。	30
25 /	黒田担当： 絵から物語を創る II ・ 相互評価する。	課題①創作 講義と質疑 プリント配布	予習：物語創作について調べる。 復習：配布物・ノートを見直す。	30
26 /	瀧辺担当： 評論「水の東西」（山崎正和）を読み、論旨を理解する。	音読 課題シート 講義「水の東西」 次時の課題「〇〇の東西」についての説明 小テスト返却	復習：日本と西洋の文化の差異を示す具体例について考察する。	30
27 /	黒田担当： 古典作品読解・鑑賞 ・ 古事記の概要を理解し、古文を読んでみる。 ・ 派生作品を鑑賞する。	講義と質疑 プリント配布 課題①返却	予習：古事記について調べる。 復習：配布物・ノートを見直す。	30
28 /	瀧辺担当： 日本と西洋の文化の差異を示す具体例について考察し、プレゼンの用意をする。	プレゼン作成	予習：日本と西洋の文化の差異を示す具体例について考察する。	30
29 /	黒田担当： 古典作品読解・鑑賞 ・ 源氏物語の概要を理解し、古文を読んでみる。 ・ 派生作品を鑑賞する。	講義と質疑 プリント配布	予習：源氏物語について調べる。 復習：配布物・ノートを見直す。	30
30 /	瀧辺担当： 「〇〇の東西」をプレゼン発表し、相互評価する。	プレゼン発表 相互評価	予習：プレゼンの練習をしておく。	30

令和3年度 学習支援計画書

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 必修		日本語コミュニケーション		3	505900	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	潟辺 豊 黒田 譜美		白山麓C: 101.201				潟辺 月曜 16:30-17:30 黒田 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	日本語		社会人として相手からの信頼を得られるような言葉の受け答えができるようになるために、実践的な敬語の基礎知識を習得する。説得力のある小論文や、味わい深いエッセイ、機転が利いた二次創作作品が書けるようになるために、日本語の読み書きに習熟し、語彙力を高め、表現力を習得する。積極的な音声表現ができるようになるために、スピーチ、プレゼン、歌唱に取り組み、日本語の表現力を習得する。						
2	コミュニケーションスキル								
3	漢字・語彙・表現知識								
4	日本文化・社会								
5									
授業の概要および学習上の助言									
<p>成績は、潟辺60%、黒田40%の配分で担当し、各評価項目については以下のように按分する。</p> <p>クイズ/小テスト ; 潟辺10% 黒田 10% レポート ; 黒田 20% 作品 : 潟辺25% 成果発表/口頭・実技 ; 潟辺25% 黒田 10%</p>									
【教科書および参考書・リザーブドブック】									
教科書： 参考書：奥山貴之、宇津木奈美子、東会娟『考える人の【上級】日本語読解』凡人社、2020、 国語の常識plus 明治書院 リザーブドブック：									
履修に必要な予備知識や技能									
<ul style="list-style-type: none"> ・すでに習得した語彙や定型表現、漢字知識 ・語彙や漢字について助けを得ながら、文章の大意を読み取る力 ・書き言葉と話し言葉の区別 									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	f	敬語に関する基礎知識を理解し、自分の表現に生かすことができる。							
②	f i	小論文の書き方を理解し、ねばり強く取り込むことができる。							
③	f	聞き手を惹きつけるスピーチ、プレゼンができる。							
④	f g	自分らしさのあるエッセイ、機転の利いた二次創作、レイアウトを工夫した広告ポスターの作成ができる。							
⑤	i	日本語の読み書きに習熟し、語彙力を高め、日本語の表現力を磨く姿勢を持つことができる。							
⑥	f e	日本の歌謡に親しみ、正確な発音で日本語の歌を歌うことができる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	20	20	35	25	0	0	100
総合力指標	知識を取り込む力	0	10	0	0	0	0	0	10
	思考・推論・創造する力	0	10	10	10	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	10	20	25	0	0	55
	学習に取り組む姿勢・意欲	0	0	0	5	0	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
クイズ 小テスト	①	レ
	②	
	③	
	④	
	⑤	レ
	⑥	
レポート	①	
	②	レ
	③	
	④	レ
	⑤	レ
	⑥	
成果発表 (口頭・実技)	①	
	②	
	③	レ
	④	
	⑤	レ
	⑥	レ
作品	①	
	②	
	③	
	④	レ
	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
小テスト：日本語の読み書きに十分に習熟し、正しい敬語法を身に付けている。	小テスト：日本語の読み書きに概ね習熟し、敬語を用いた会話ができる。
レポート：論旨の一貫した説得力のある小論文を書くことができる。	レポート：論旨の一貫した小論文を書くことができる。
成果発表：意見をまとめて聞き手に確実に伝え、共感を得ることができる。	成果発表：意見をまとめて聞き手に確実に伝えることができる。
作品：自分らしさのある味わい深いエッセイや機転の利いた二次創作作品、レイアウトを工夫した視覚効果に優れた広告ポスターを作ることができる。	作品：自分らしさのあるエッセイや二次創作作品、レイアウトを工夫した広告ポスターを作ることができる。

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、Good Work!」：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ください。

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 /	黒田担当：ガイダンス 敬語（尊敬語） ・尊敬語を理解し、適切に使えるようにする。	科目ガイダンス 講義と演習 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 /	黒田担当： 敬語（謙譲語） ・謙譲語を理解し、適切に使えるようにする。	講義と演習 プリント配布	予習：謙譲語について調べる。 復習：配布物・ノートを見直す。	30
3 /	黒田担当： 敬語（丁寧語・美化語） ・丁寧語・美化語を理解し、適切に使えるようにする。	①小テスト（敬語） 講義と演習 プリント配布	予習：丁寧語・美化語について調べる。 復習：配布物・ノートを見直す。	30
4 /	黒田担当： 電子メール ・電子メールの特徴やマナーを理解し、適切な形式と内容で電子メール文書を作成する	実技①メール文 講義と演習 プリント配布 小テスト返却	予習：謙譲語について調べる。 復習：配布物・ノートを見直す。	30
5 /	潟辺担当：ガイダンス 「話しあいの方法」 自分の意見発表のテーマを定める。	過去の「校内意見発表会」 入賞作品の紹介 評価規準の提示	復習：意見文の構想を練る。	30
6 /	潟辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
7 /	黒田担当： 手紙 ・手紙や連絡文の形式を学び、場面に応じた言葉の意味について理解を深める。	講義と演習 プリント配布	予習：手紙について調べる。 復習：配布物・ノートを見直す。	30
8 /	潟辺担当： 「話しあいの方法」 意見を発表するための原稿を作成する。	意見文作成	復習：出来上がった意見文を声に出して読む	30
9 /	潟辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
10 /	黒田担当： 長文読解 研究って何？：研究とは ・文章を正しく読解し、設問に答える。 ・研究と勉強の違いを理解する。	講義と演習 プリント配布	予習：配布物本文を通読する。 復習：配布物・ノートを見直す。	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、Good Work!」：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ください。

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 /	瀧辺担当： 「話し合いの方法」 各自意見を発表し、相互評価する。 「エッセイを書く」 優れたエッセイを読み味わい、魅力を理解する①	スピーチ 評価基準に従って相互評価 エッセイの音読	復習：相互評価から意見文を見直す。	30
12 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
13 /	黒田担当： 面接準備シート ・自己分析を通して自分を理解し、面接準備シートを作成する。	講義と演習 プリント配布	予習：配布物本文を通読する。 復習：配布物・ノートを見直す。	30
14 /	瀧辺担当： 「エッセイを書く」 優れたエッセイを読み味わい、魅力を理解する② 自作エッセイのテーマを考える。	エッセイの音読 評価基準の提示	復習：エッセイのテーマに沿った構想を練る。	30
15 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
16 /	黒田担当： 模擬面接 ・伝わる話し方について理解し、面接における心構えと技術を習得する。 ・模擬面接を通して、面接の基本事項を学び、実践力を身につける。	実技②模擬面接 講義と演習 プリント配布	予習：面接準備シートを見直す。 復習：配布物・ノートを見直す。	30
17 /	瀧辺担当： 「エッセイを書く」 良い作品にするために、タイトルや書き出し、細部描写や結びの工夫が重要であることを理解する。	エッセイ記述	復習：出来上がったエッセイを音読する。	30
18 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
19 /	黒田担当： 長文読解 研究って何？：フィールドワーク研究の意義 ・文章を正しく読解し、設問に答える。 ・フィールドワークについて理解する。	講義と演習 プリント配布	予習：配布物本文を通読する。 復習：配布物・ノートを見直す。	30
20 /	瀧辺担当： 「物語を作る」 様々なスタイルの二次創作について理解する。	二次創作作品の紹介 評価基準の提示	予習：二次創作のテーマを考える。	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、Good Work!」：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ってください。※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ください。

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)
21 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
22 /	黒田担当：発想法と問題提起 ・広げた発想を整理し、問題提起をすることができる。	講義と演習 プリント配布	予習：発想法について調べる。 復習：配布物・ノートを見直す	30
23 /	瀧辺担当： 「物語を作る」 二次創作作品を記述する。読者がオリジナル作品とのつながりを理解できるよう留意する。	二次創作作品記述	予習：二次創作作品の構想を練る。	30
24 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
25 /	黒田担当： 文献検索法 ・図書、雑誌論文の探し方及び引用、参考文献の書き方を理解する。	講義と演習 プリント配布	予習：検索法について調べる。 復習：配布物・ノートを見直す。	30
26 /	瀧辺担当： 「物語を作る」 前時に書いた二次創作作品を音読、鑑賞し、相互評価する	音読 評価規準に基づいて相互評価	復習：出来上がった二次創作作品を音読する	30
27 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
28 /	黒田担当： インタビュー ・実際にインタビューをすることができる。	講義と演習 プリント配布	予習：インタビューの方法について調べる。 復習：配布物・ノートを見直す。	30
29 /	瀧辺担当： 「広告」 白山麓キャンパスでのスポーツ大会開催のための広告ポスターを作成する。	評価規準の提示 ポスター作成	復習：ポスター作成に関して工夫した点をまとめる。	30
30 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	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、Good Work!」：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ください。

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)
31 /	黒田担当： グループセッション ・意見交換を行い、複数の視点から物事を考える。	講義と演習 プリント配布	予習：グループセッションの準備をする。 復習：配布物・ノートを見直す。	30
32 /	瀧辺担当： 「広告」 作成したスポーツ大会のポスターについて工夫した点をプレゼン発表する。	プレゼン発表 評価規準に基づいて相互評価	予習：プレゼン発表の内容をまとめる。	30
33 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
34 /	黒田担当： 小論文 ・序論、本論、結論の三段構成を理解できる。	講義と演習 プリント配布	予習：配布物本文を通読する。 復習：構成ノートを見直す。	30
35 /	瀧辺担当： 「プレゼンテーション1」 プレゼンテーション「世界の都市」のためのスライドを作る。各自一都市を選び、歴史や文化などについて調査する。	発表内容に基づいてスライド構成を考える。	予習：スライド作りのための材料を集める。	30
36 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
37 /	黒田担当： 小論文 ・構成ノートを作成する。 ・添削内容を見直す。	講義と演習 プリント配布	予習：課題に取り組む。 復習：課題を見直す。	30
38 /	瀧辺担当： 「プレゼンテーション1」 プレゼンテーション「世界の都市」のためのスライドを作る。	スライド作り 発表練習	予習：プレゼン練習をする。	30
39 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
40 /	黒田担当： 小論文 ・推敲・清書の方法を理解できる。	①課題（小論文）提出 講義と演習 プリント配布 アンケート実施	予習：課題を見直す。 復習：添削を見直す。	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、Good Work!」：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ってください。※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ください。

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)
41 /	瀧辺担当： 「プレゼンテーション1」 プレゼン発表し、相互評価する。	プレゼン発表 評価シート	発表して気づいた改善点を修正する。（復習）	30
42 /	瀧辺担当： 漢字の読み書き、語彙を身につける。 日本歌謡の歌詞を理解し、正確な発音で歌唱する。	演習 言葉クイズ 言葉クイズ返却 伴奏に合わせて歌唱	復習：学んだ言葉を再確認する。	30
43 /	黒田担当： 小論文 ・相互評価をして、課題を見直す。	小論文返却	予習：課題を見直す。 復習：相互評価を見直す。	30
44 /	瀧辺担当： 「プレゼンテーション2」 白山麓での思い出をプレゼン発表する。	プレゼンのためのスライド作り 評価規準の提示	予習：スライド作りのための材料を用意する。	30
45 /	瀧辺担当： 「プレゼンテーション2」 白山麓での思い出をプレゼン発表する。	プレゼン発表 評価規準に基づいて相互評価	予習：プレゼン練習する。	30

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Health and Physical Education IIA	1	507000	First	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	Running	Practice running and increase the student's endurance and speed over a 2km course Improve the student's climbing ability in an indoor bouldering room Develop basketball skills through drills and practice games							
2	Climbing								
3	Basketball								
4	Focus								
5									
Course Description and Expectations for Students (10.5pt)									
<p>The expectation id for students to be on time for class in the correct uniform and fully participate in the activities of class, and encouraging of other students to do their best.</p> <p>The standard class structure will begin with running a set course, followed by skills practice in the given sport and finally participation in a class game. If due to corona we need to have class online, we will learn dance through zoom.</p> <p>The first 7 classes we will be doing climbing so after the run we will head to the indoor bouldering room and work on body coordination and technique. Students will be expected to think more on how they are using their body to climb more efficiently, rather than increasing power.</p> <p>The next 8 classes will be Basketball, students will be expected to play in a safe manner and practice skills such as shooting, layups, dribbling and passing. Students will be expected to remain focused during drills and try their best to participate in games.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
School sports uniform, Indoor sports shoes, Outdoor sports shoes, Notebook and pen.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Willingness to work together as a team for sports. A drive to improve yourself and discover the joy of movement. Ability to understand basic instructions in English to maintain safety at all times. Skills from the first year climbing course.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to support each other in learning new skills							
②	f	Students will be able to take responsibility for their own behavior and training							
③	i	Students will be able to learn from failure and develop fortitude							
④	i	Students will learn how to train their body correctly for a healthy life							
⑤	c	Students will develop confidence in their abilities and work with a sincere heart							
⑥	b	Students will learn the value of enjoying sports and the lifelong benefits of exercise							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	15	60	25	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	5	0	15	0	20
	Ability to think, reason and create	0	0	0	0	0	10	0	10
	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	0	10	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	✓ Climbing: Marked out of 10. On completing the two endurance circuits, 5 points for each.
	②	
	③	✓ Basketball: Marked out of 5. Write up of key steps to perform skills like a layup, free throw, and dribbling.
	④	
	⑤	✓
	⑥	✓
Works	①	
	②	✓ Sports: 4 points, participation >90%, positive attitude, encourages others, plays fair and in a safe way. Participation 80-90%, rarely complains, good but not best effort, plays mostly under control, respects other students but doesn't encourage others, 3 points. Participation 50-80%, complains sometimes has moderate effort, needs encouragement, tends to break game rules, occasionally disrespectful to other students, 2 points. Low level <50% participation, effort is lacking, negative attitude, needs frequent encouragement from teacher, plays unsafely (needs supervision), often argues. 1 points. 0 points is possible. Marked after each class, 60 total.
	③	
	④	
	⑤	✓
	⑥	✓
Portfolios	①	
	②	✓ Running: keep a log book of your 2km times for each run. Each run time that is not logged will lose a point. Marked out of /15.
	③	
	④	✓ Running: The fastest time will be used for your score. Boys scoring: 13-14min 4/10, 12-13min 5/10, 11-12min 6/10, 10-11min 7/10, 9-10min 8/10, 8-9min 9/10, 7-8min 10/10. Girls scoring: 15-16min 5/10, 14-15min 6/10, 13-14min 7/10, 12-13min 8/10, 11-12min 8/10, 10-11min 9/10, 9-10min 10/10
	⑤	
	⑥	In the case of injury: Not able to run, a workout will be provided for 8/10 mark.
Others	①	
	②	✓ Dress: for each time the student is not in correct uniform, or they will lose a point from their final score.
	③	
	④	Dance: If due to corona we need to online classes we will learn a dance via zoom and their effort/participation will be judged as per the sport criteria along with a demonstration when we are back in class.
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
The ideal student will put their best effort into both the warm up and the running. Keeping a positive attitude throughout the class and encouraging other students to do their best in climbing. Being able to do both climbing routes. They will try to participate with a sincere heart and remain focused through the skill practice, and willing to play sports with people outside of their friend groups. They will act in a safe manner in the climbing wall and being careful when playing basketball. Looking to include other students in the activities. They will also describe correct ways to perform skills in basketball.	The standard student will warm up and run with no extra effort, they will participate in climbing and badminton all the time but with 70% effort. They will be safe in how they play basketball. They will enjoy sport and not complain frequently. Being able to climb at least one route in the climbing wall and describing basketball skills in a simplistic sense.

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 /	Welcome Back Syllabus explanation Running 2km Climbing, endurance training	Lecture and Active Learning	Log run time	100
2 /	Running 2km Climbing – endurance training	Lecture and Active Learning	Log run time	100
3 /	Running 2km Climbing – endurance training	Lecture and Active Learning	Log run time	100
4 /	Running 2km Climbing – endurance training	Lecture and Active Learning	Log run time	100
5 /	Running 2km Climbing – working on challenges	Lecture and Active Learning	Log run time	100
6 /	Running 2km Climbing – working on challenges	Lecture and Active Learning	Log run time	100
7 /	Running 2km Climbing – final demonstration of challenges	Lecture and Active Learning	Log run time	100
8 /	Running 2km Basketball – shooting and layup, dribbling	Lecture and Active Learning	Log run time	100
9 /	Running 2km Basketball – shooting, layup, attacks	Lecture and Active Learning	Log run time	100
10 /	Running 2km Basketball – shooting, layups, attacks	Lecture and Active Learning	Log run time	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 2km Basketball – drills, blocking, game	Lecture and Active Learning	Log run time	100
12 /	Running 2km Basketball – drills, reverse layup, blocking, game	Lecture and Active Learning	Log run time	100
13 /	Running 2km Basketball – drills, game	Lecture and Active Learning	Log run time	100
14 /	Running 2km Basketball – drills, game	Lecture and Active Learning	Log run time	100
15 /	Running 2km – final. Basketball – demonstration of skills, game	Lecture and Active Learning	Log run time – complete basketball skills description.	100

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Health and Physical Education IIB		1	507100	Second	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	Machine weight training			Use machines to improve the student's body health, and muscular strength. The student will learn the joy of soft volleyball The student will improve skills in the sport Indiacca The student will develop increased agility and skill in singles badminton					
2	Soft volleyball								
3	Indiacca								
4	Badminton								
5	focus								
Course Description and Expectations for Students (10.5pt)									
<p>The expectation id for students to be on time for class in the correct uniform and fully participate in the activities of class, and encouraging of other students to do their best.</p> <p>The standard class structure will begin with a machine weight training regime, followed by skills in the given sport and finally participation in a class game. If due to corona we need to have class online, we will learn dance through zoom.</p> <p>For the first 4 classes we will be doing soft volleyball after the training. We will work enjoying sport for sports sake with all levels of ability. We will then move on to 3 classes of Indiacca which is a challenge in hand-eye coordination. Students are expected to work together and be supportive. As well as practicing having control of the volleyball/Indiacca at all times; as to not endanger other students.</p> <p>The next 8 classes will be singles badminton where the student is expected to work to improve their agility and reaction time. Skills such as serve, drive, backhand, smash, and drop shot will also be improved upon.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
School sports uniform, Indoor sports shoes, Notebook and pen.									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Willingness to work together as a team for sports. A drive to improve yourself and discover the joy of movement. Ability to understand basic instructions in English to maintain safety at all times. Also 1 st year badminton doubles skills or prior badminton experience.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to support each other in learning new skills							
②	f	Students will be able to take responsibility for their own behavior and training							
③	i	Students will be able to learn from failure and develop fortitude							
④	i	Students will learn how to train their body correctly for a healthy life							
⑤	c	Students will develop confidence in their abilities and work with a sincere heart							
⑥	b	Students will learn the value of enjoying sports and the lifelong benefits of exercise							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	25	60	15	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	15	0	0	0	15
	Collaboration and leadership	0	0	0	0	20	0	0	20
	Announcement / Expression / Communication	0	0	0	10	20	0	0	30
	Attitude and motivation for learning	0	0	0	0	20	0	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	
	②	
	③	
	④	
	⑤	
	⑥	
Presentations	①	✓ Soft Volleyball: 5 points. Demonstrate proper serve and gameplay with teammates
	②	
	③	✓ Indiaca: 5 Points. Demonstrate proper serve and gameplay with teammates
	④	
	⑤	✓ Badminton: 15 points. Demonstrate and describe the rules of badminton, components of the serve 1 other badminton shot of choice.
	⑥	✓
Works	①	
	②	✓ Sports: 4 points, Participation >90%, positive attitude, encourages others, plays fair and in a safe way. Participation 80-90%, rarely complains, good but not best effort, plays mostly under control, respects other students but doesn't encourage others, 3 points. Participation 50-80%, complains sometimes has moderate effort, needs encouragement, tends to break game rules, occasionally disrespectful to other students, 2 points. Low level <50% participation, effort is lacking, negative attitude, needs frequent encouragement from teacher, plays unsafely (needs supervision), often argues. 1 point. 0 points is possible. Marked after each class, 60 total.
	③	
	④	
	⑤	✓
	⑥	✓
Portfolios	①	
	②	✓ Training: keep a log of the machine weight training, one for each workout. Marked out of 15, one for each class.
	③	
	④	✓
	⑤	
	⑥	
Others	①	
	②	✓ Dress: for each time the student is not in correct uniform, or they will lose a point from their final score.
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
The ideal student will put their best effort into both the warm up and training. Keeping a positive attitude throughout the class and encouraging other students to do their best in volleyball and soccer. They will try to participate with a sincere heart and remain focused through the skill practices and games. They will keep a tidy log of training and make an effort to develop their skills outside of class. They will be on time for class in the correct uniform and help with the setting up or the taking down of sport equipment. They will involve themselves in sport that they are not good at in effort to improve their skills and participate.	The standard student will warm up and train with no extra effort, they will participate in all activities the time but with 70% effort. They will be safe in how they set up for badminton, and understand to a modest degree the movements involved in skills such as serving and smash and might not be able to perform them to a high degree.

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 /	Welcome Back Syllabus explanation Training Soft volleyball	Lecture and Active Learning	Log training	100
2 /	Training Soft volleyball – tournament	Lecture and Active Learning	Log training	100
3 /	Training Soft volleyball – tournament	Lecture and Active Learning	Log training	100
4 /	Training Soft volleyball – tournament	Lecture and Active Learning	Log training	100
5 /	Training Indiaca tournament	Lecture and Active Learning	Log training	100
6 /	Training Indiaca tournament	Lecture and Active Learning	Log training	100
7 /	Training Indiaca tournament	Lecture and Active Learning	Log training	100
8 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
9 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
10 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	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 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
12 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
13 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
14 /	Training Badminton – drills, games	Lecture and Active Learning	Log training	100
15 /	Training Badminton – singles games, final demonstration of singles skills	Lecture and Active Learning	Log training and Badminton skills	100

令和3年度 学習支援計画書

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	507500	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	小高 有普		白山麓C: 101.201				月曜 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		芸術分野の作品鑑賞を通し、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。それらを体験した学生は、次に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ためである。						
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し、それを伝達するスキルを磨く。									
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									
【教科書および参考書・リザーブドブック】 教科書： 参考書： リザーブドブック：									
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必要があります。 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	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							
②	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							
③	g	何が有効なアイデアなのかを見極めることができる							
④	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							
⑤	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							
⑥	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							
達成度評価									
評価方法		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
指標と評価割合									
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
	学習に取り組む姿勢・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	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	
	③	
	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	
	③	
	④	
	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
	②	
	③	
	④	
	⑤	
	⑥	
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	
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	①構成力：①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、Good Work!」：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ください。

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 調査① 地域文化を通じ芸術や思想を理解する	講義 レポート インフォグラフィックによる 構造の視覚化	予習： 復習：調査のまとめ	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	予習：調査のための準備 復習：調査の継続	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	予習：制作計画をたてる 復習：アイデアを展開する	30
6 /	構造デザイナー—基礎② 基礎的なモデルの作成（立方体）	講義 モデル作成	予習：制作計画のチェック 復習：作業遅延分の実施	30
7 /	構造デザイナー—基礎② 基礎的なモデルの作成（立方体）	講義 モデル作成	予習：制作計画のチェック 復習：作業遅延分の実施	30
8 /	コミュニケーションデザイン インタビューを通して情報を収集し、アイデア展開に 活かす テーマに添った構造アイデアを図で表現	講義 モデル作成	予習：制作計画のチェック 復習：1次モデルを完成する	30
9 /	構造デザイナー—応用① アイデアを形に具現化する	講義 スケッチ、モデル作成	予習：計画のチェック 復習：改良モデルを完成する	30
10 /	構造デザイナー—応用① アイデアを形に具現化する	講義 合成作業	予習：ソフトの使い方について 復習：作業遅延分の実施	40

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ください。

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	15

令和3年度 学習支援計画書

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		パフォーマンスアート II		1	507700	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	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									
<p>一年次で受講したパフォーマンスアート I の内容をさらに拡大し表現力を身につける。一年次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。</p>									
【教科書および参考書・リザーブドブック】									
教科書： 参考書： リザーブドブック：									
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		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
指標と評価割合									
総合評価割合		0	0	0	50	0	0	50	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	30	0	0	35	65
	学習に取り組む姿勢・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
	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
	②	レ
	③	レ
	④	レ
	⑤	
	⑥	
		<p>30%: 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。</p> <p>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。</p>
		<p>35%: 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。</p> <p>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。</p>

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、恥ずかしがらず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。	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。	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、Good Work!」：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ください。

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 「Over the rainbow」の理解 歌唱に挑戦	講義、発声、歌唱		
2 /	歌唱の練習 楽器を用いて練習 発表	練習、歌唱、鑑賞	Over the rainbow	15
3 /	課題曲の理解 発声練習 歌唱に挑戦 学生選曲の課題曲（1）	練習、歌唱、鑑賞	発声練習を行う	15
4 /	歌唱の練習 楽器を用いて練習 学生選曲の課題曲（1）	練習、歌唱、鑑賞	次回の課題曲（2）を聴く	30
5 /	課題曲の理解 発声練習 歌唱に挑戦 学生選曲の課題曲（2）	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 学生選曲の課題曲（2）発表	練習、歌唱、鑑賞	次回の課題曲（3）を聴く	30
7 /	課題曲の理解 発声練習 歌唱に挑戦 学生選曲の課題曲（3）	練習、歌唱、鑑賞	発声練習を行う	15
8 /	歌唱の練習 楽器を用いて練習 学生選曲の課題曲（3）発表	練習、歌唱、鑑賞	課題曲（3）を歌う	30
9 /	吹替えを理解 吹替えの鑑賞	講義、鑑賞		
10 /	吹替えの練習 吹替えの発表 吹替えの鑑賞	練習、吹替え実演、鑑賞	次回の課題曲（4）を聴く	

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、Good Work!」：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ください。

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 歌唱に挑戦 学生選曲の課題曲（4）	講義、発声、歌唱	発声練習を行う	15
12 /	歌唱の練習 楽器を用いて練習 学生選曲の課題曲（4）発表	練習、歌唱、鑑賞	課題曲（4）を歌う	15
13 /	課題曲の理解 発声練習 歌唱に挑戦 学生選曲の課題曲（5）	講義、発声、歌唱	発声練習を行う	15
14 /	歌唱の練習 楽器を用いて練習 学生選曲の課題曲（5）発表	練習、歌唱、鑑賞	課題曲（5）を歌う パフォーマンス発表の準備と練習	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

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Engineering Design IIA		2	508000	First	Experiment/Practice Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	MATSUSHITA, Omihito OGAWA, Hayato KUSHIMA, Yoshihiro KODAKA, Arihiro YAMAZAKI, Shuntaro		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)									
<p>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-tech and agri-business around the area. Based on the group's project scopes, each group will work on their plans for solution development using AI, IoT, and other appropriate technologies as well as business design and implementation. The work will be continued to the EDIIB course.</p> <p>Advice on taking this class</p> <ul style="list-style-type: none"> - 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) (10.5pt)									
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 analyze issues from different perspectives which the local communities face.							
②	a, d, g	Students will be able to generate locally appropriate solutions to problems with teams.							
③	a, d, g	Students will be able to make their solution concept 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	0	30	60	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	10	15	2	0	27
	Ability to think, reason and create	0	0	0	10	15	2	0	27
	Collaboration and leadership	0	0	0	5	10	2	0	17
	Announcement / Expression / Communication	0	0	0	5	15	2	0	22
	Attitude and motivation for learning	0	0	0	0	5	2	0	7

* 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	レ
	②	レ
	③	レ
	④	レ
	⑤	
	⑥	
Works	①	レ
	②	レ
	③	レ
	④	レ
	⑤	レ
	⑥	
Portfolios	①	
	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)
<ul style="list-style-type: none"> - 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. 	<ul style="list-style-type: none"> - 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 - Project goals	Lecture and group work	Prepare as instructed	
2 /			Finish class assignments and reflection	20
3 /	Group organization - System and working environment - Server and communication - Farming situation in the area	Lecture and group work	Prepare as instructed	15
4 /	Agri-business planning 1		Finish class assignments and reflection	30
5 /	System Concept - IoT and system environment (AI/IoT/Powering/Stage Hardware Intro.) Agri-business planning 2	Lecture and group work	Prepare as instructed	15
6 /			Finish class assignments and reflection	20
7 /	System Concept Review - Prototype review & feedback (AI/IoT/Powering/Stage) Agri-business planning review & feedback	Lecture and group work	Prepare as instructed	15
8 /			Finish class assignments and reflection	30
9 /	System Design - IoT system design - System installation design Agri-business Sales 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 /	System Design Review Agri-business Sales planning 2	Lecture and group work	Prepare as instructed	15
12 /			Finish class assignments and reflection	20
13 /	System Development 1 - Machine Learning and signal output - IoT communication implementation - Base stage development	Lecture and group work	Prepare as instructed	15
14 /	Agri-business Sales planning 3		Finish class assignments and reflection	20
15 /	System Development 2 - Machine Learning and signal output - IoT communication implementation - Base stage development	Lecture and group work	Prepare as instructed	15
16 /	Agri-business Environment 1		Finish class assignments and reflection	20
17 /	System Development 3 - Machine Learning and signal output - IoT communication implementation - Base stage development	Lecture and group work	Prepare as instructed	15
18 /	Agri-business Environment 2		Finish class assignments and reflection	20
19 /	System Construction 1 - AI and IoT Communication - Base staging finalization setup	Lecture and group work	Prepare as instructed	15
20 /	Agri-business Environment 3		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 Construction 2 - AI and IoT Communication - Base staging finalization setup Agri-business Environment 4	Lecture and group work	Prepare as instructed	15
22 /			Finish class assignments and reflection	20
23 /	System Review - system/platform setup review Agri-business Environment 5	Lecture and group work	Prepare as instructed	15
24 /			Finish class assignments and reflection	20
25 /	Field Installation Agri-business Sales & Environment Check 1	Lecture and group work	Prepare as instructed	15
26 /			Finish class assignments and reflection	20
27 /	Field Operation Agri-business Sales & Environment Check 2	Presentation	Prepare for the presentation	15
28 /			Finish class assignments and reflection	20
29 /	Field Operation Check and Debugging Final Presentation Planning for the next semester Self-Reflection	Group work Self-reflection	Prepare for the presentation	60
30 /			Finish class assignments and reflection	

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Engineering Design IIB		2	508100	Second	Experiment/Practice Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	MATSUSHITA, Omihito OGAWA, Hayato KUSHIMA, Yoshihiro KODAKA, Arihiro YAMAZAKI, Shuntaro		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)									
<p>The students will continue their regional problem-solving projects from Engineering Design IIA. Based on the group's project scopes, each group will work on their plans for solution development and evaluation of a recognition system and deterrent systems using AI, IoT, and other appropriate technologies, as well as evaluating business promotion and implementation.</p> <p>Advice on taking this class</p> <ul style="list-style-type: none"> - 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									
ECIIA: Understanding the ethics of SDGs and 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.							
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	30	60	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	10	15	2	0	27
	Ability to think, reason and create	0	0	0	10	15	2	0	27
	Collaboration and leadership	0	0	0	5	10	2	0	17
	Announcement / Expression / Communication	0	0	0	5	15	2	0	22
	Attitude and motivation for learning	0	0	0	0	5	2	0	7

* 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	
		Students will give oral project progress and the final report 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 and individually.
Works	①	✓
	②	✓
	③	✓
	④	✓
	⑤	✓
	⑥	
		The format of works can be physical prototypes of solutions, concept diagrams, sketches, work report, and other styles of visual aids and writing forms. The format will be announced by the instructors.
Portfolios	①	
	②	
	③	
	④	
	⑤	✓
	⑥	✓
		Portfolios will include either individual or group 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.
Others	①	
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
<ul style="list-style-type: none"> - 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. 	<ul style="list-style-type: none"> - 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 System Operation Check/ Deterrent system Evaluation 1	Lecture and group work	Prepare as instructed	
2 /	Market Research Planning 1	Lecture and group work	Finish class assignments and reflection	20
3 /	System Operation Check/ Deterrent system Evaluation 2 Market Research Planning 2	Lecture and group work	Prepare as instructed	15
4 /		Lecture and group work	Finish class assignments and reflection	20
5 /	System Operation Check/ Deterrent system Evaluation 3 Sales Development 1	Lecture and group work	Prepare as instructed	15
6 /		Lecture and group work	Finish class assignments and reflection	20
7 /	System Operation Check/ Deterrent system Evaluation 4 Sales Development 2	Lecture and group work	Prepare as instructed	15
8 /		Lecture and group work	Finish class assignments and reflection	20
9 /	System Operation Check/ Deterrent system Evaluation 5 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/ Deterrent system Evaluation 6 Sales Development 4	Lecture and group work	Prepare as instructed	15
12 /		Lecture and group work	Finish class assignments and reflection	20
13 /	System Sustainability and Further Consideration 2 Agri-Business Summary 1	Lecture and group work	Prepare as instructed	15
14 /		Lecture and group work	Finish class assignments and reflection	20
15 /	System Sustainability and Further Consideration 2 Agri-Business Summary 2	Lecture and group work	Prepare as instructed	15
16 /		Lecture and group work	Finish class assignments and reflection	20
17 /	System sustainability and expansion 1 - Improve user interface and maintenance. - Hardware software upgradability analysis	Lecture and group work	Prepare as instructed	15
18 /	Product adaptability in the market 1 Agri-business prediction 1	Lecture and group work	Finish class assignments and reflection	20
19 /	System sustainability and expansion 2 - Improve user interface and maintenance. - Hardware software upgradability analysis	Lecture and group work	Prepare for the progress presentation	60
20 /	Product adaptability in the market 2 Agri-business prediction 2	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 expansion 3 - Improve user interface and maintenance. - Hardware software upgradability analysis	Lecture and group work	Prepare as instructed	15
22 /	Product adaptability in the market 3 Agri-business prediction 3	Lecture and group work	Finish class assignments and reflection	20
23 /	Progress Report - Make the implementation and evaluation progress reports and plans.	Project progress presentation	Prepare as instructed	15
24 /	- Expand view of solution effect and causes	Lecture and group work	Finish class assignments and reflection	20
25 /	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 /	Final Presentation	Presentation	Prepare as instructed	60
28 /		Lecture and group work	Finish reflection	20
29 /	SDGs wrap-up Self-reflection	group work	Prepare as instructed	20
30 /		Self-reflection	Finish reflection	20

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Engineering Context IIA	1	508900	First	Experiment/Practice Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
2	OGAWA, Hayato KUSHIMA, Yoshihiro HALIM, Hazwan	Hakusanroku C101.201			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 Engineering Design 2 A. For a successful continuation of project and support for the local area, the students will need experience in programming python code to do Machine learning and use the modules that are installed on the Jetson nano system.							
2	artificial intelligence								
3	Robotics								
4	IoT								
5	Python								
Course Description and Expectations for Students (10.5pt)									
<p>This class will cover basic robotic concepts using a Jetbot chassis and jetbot.org programming examples. Concepts such as programmable 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 sections 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.</p> <p>Advice on taking this course:</p> <ul style="list-style-type: none"> • Have laptops or notebooks ready before class starts • Check Manaba often and download all files needed for today's lesson • Submit assignments on time. • Enter a portfolio for self-records and review. • Feel free to ask questions during office hour. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Reference books: Reserved books:</p>									
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									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
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	0
	Ability to think, reason and create	0	0	10	0	20	0	0	0
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	0	20	0	0	0
	Attitude and motivation for learning	0	0	5	0	10	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	x
	②	x
	③	
	④	
	⑤	
	⑥	
Presentations	①	
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	
	②	
	③	x
	④	x
	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 wild animal damage control image recognition and alert. Students gain interest and motivation to design and conduct a project in ED2A/B.	Students understand the implementation of the experimental setup of wild animal damage control image recognition and alert. 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 - Jetsbot 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	- Jetsbot 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 for robotics -IOT Introduction presentation Learn Arduino 1	-Introduction to IOT and Arduino -Software install and preparation	Arduino familiarization assignment	30
14 /	Learn Arduino 2 -ESP8266 WIFI module introduction and spec Project 1	-ESP8266 WIFI module introduction and spec Project 1	1st exercise and data collection simulation	30
15 /	Learn Arduino 3 -Project 2	-Collect data from sensor and analyses -project 2 explanation	2nd exercise with sensors	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Engineering Context II B		1	509000	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	TAN, Kah Keng YAMAZAKI, Shuntaro TAYLOR, James		Hakusanroku C101. 201				Wed. 8:40-10:20		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Sustainable Development Goals (SDG)			Students will learn the basic knowledge required for the project conducted in the ED IIA / B class. This enables students to understand the business skill based on the ethics of the SDGs and the importance of intellectual property, which is essential for using ideas in business.					
2	Business Design and Model								
3	Global Strategy								
4	Patents								
5									
Course Description and Expectations for Students (10.5pt)									
<p>For students to become global innovators, they will need to cover a wide range of topics such as understanding different domestic and international environments, opportunity cost (trade-offs) and global strategies. In this course, students will learn how businesses impact society and nature. Students will learn through case studies of real world companies on how they affect society, nature and their respective industry. In addition, students will also understand the importance of Intellectual Property (IP) as it applies to businesses and to the engineers that create them. Finally, students will debate while using the knowledge they have learned to develop their practical skills.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Engineering ethics, Logical thinking, Literature research, Debate, Report writing									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b h	Students will be able to understand the business goals of the SDGs projects							
②	b g i	Students will be able to understand what is business design and how to create a business strategy							
③	g h i	Students will be able to understand how intellectual property and patents affect businesses							
④	d f	Students will be able to apply course concepts to help the local community							
⑤									
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	20	40	0	10	30	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	5	10	0	5	0	20
	Ability to think, reason and create	0	0	5	7	0	0	15	27
	Collaboration and leadership	0	0	0	6	0	0	15	21
	Announcement / Expression / Communication	0	0	10	17	0	0	0	27
	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Reports	①	Students will write a business plan, which will be graded on task achievement and coherence.	
	②		
	③		
	④	Ability to capture knowledge / 25%	
	⑤	Ability to think, reason and create / 25%	
	⑥	Announcement/Expression/Communication / 50%	
Presentations	①	Students will give an oral report on unconscious bias in product design and another on an assigned company, which will be graded on content, cohesion, coherence, and clarity. In addition, students will debate regarding assigned business topic, which will be graded on logicality, objectivity, and communication ability.	
	②		
	③		
	④	Ability to capture knowledge / 23%	
	⑤	Ability to think, reason and create / 17%	
	⑥	Collaboration and leadership / 13%	
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	Through the portfolio assessment, students will be evaluated for their understanding of intellectual property and organization type.	
	②		
	③	Ability to capture knowledge / 50%	
	④	Attitude and motivation for learning / 50%	
	⑤		
	⑥		
Others	①	Student will create business profile, brochures and copy right logos for their ED2B project use.	
	②		
	③	Ability to think / 50%	
	④	Collaboration and leadership / 50%	
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
Students understand the business goals of the SDGs projects, the business design, the creation of a business strategy, and the importance of intellectual property for businesses. Based on these understanding, students can apply the concept of this course in Engineering Design II classes.	Students understand the business goals of the SDGs projects, the business design, the creation of a business strategy, and the importance of intellectual property for businesses. Based on these understanding, students can debate regarding a business subject to be assigned in the class.

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: Class Introduction Business Engineering: Work in tandem with their Engineering Design Class	Introduction to Engineering Context 2B Students will work on the business side of their Engineering Design 2B project.	Copy right logo and documentation	30
2 /	Business Model and Design: Organization Types of domestic and international	Students will learn the different types of business models and organization	Complete Classwork	20
3 /	Business Model and Design: Retail vs e-Commerce	Students will consider the differences between traditional and online commerce, and the advantages and disadvantages of both	Prepare a short oral report on an assigned company	30
4 /	Business Model: Understand what a business model is	Students will learn how to create a business strategy	Complete classwork	30
5 /	Business Strategy: Business Plans	Students will write a business plan	Complete written business plan	30
6 /	Business Model and Design: Marketing and Sales Intellectual Property: Copyright and patent	Students will learn the different components of marketing. Students will review real world business strategies Students will learn the importance of intellectual property for business	Portfolio in manaba regarding intellectual property	10
7 /	Global Strategy: Supply Chain Outsourcing 1	Students will understand the benefits and challenges of a global strategy	Complete Classwork	20
8 /	Global Strategy: Supply Chain Outsourcing 2	Students will understand the benefits and challenges of a global strategy	Complete Classwork	20
9 /	Business Engineering: Work in tandem with their Engineering Design Class	Students will work on the business side of their Engineering Design 2B project.	Copy right logo creation and documentation	30
10 /	Debate: Learn the debate	Students will learn the skill of debate and prepare for the debate session in the final class. The subject will be based on the business design and strategy.	Subject of the debate	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 /	Debate: Prepare for the debate round #1	Students will prepare for the debate round #1.	Subject of the debate	30
12 /	Debate: Debate round #1 Prepare for the debate round #2	Students will debate in terms of the given subject. Students will prepare for the debate in the final class.	Subject of the debate	30
13 /	Debate: Debate round #2	Students will debate in terms of the given subject.		30
14 /	Unconscious Bias: Unconscious bias in product design	Students will consider real examples of unconscious bias in product design	Prepare a short presentation on unconscious bias in product design	30
15 /	Unconscious Bias: Unconscious bias in product design	Students will research and report on unconscious bias in product design	Complete classwork	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Computer Skills IIA		1	509700	First	Exercises / Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	TAN, Kah Keng INOUE, Keisuke OTSUKA, Sakuichi		Hakusanroku C101.201				16:30 - 17:30 (Mon. to Fri.)		
Course Objectives									
Keywords			Learning Objectives						
1	Autodesk Fusion 360 3D Modelling		Global innovators must be able to quickly learn new skills in technical areas. In this course, students will gain experience with new computer applications and tools to be used in a variety of different situations. They will learn 3D model simulation, drone control, and video editing before creating their original project ideas to highlight the learned skills and techniques.						
2	Adobe Premier Pro								
3	Drone Control and Planning								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>Building upon skills learned in the previous Computer Skills courses, students will learn how to combine knowledge from different applications to tackle real world problems. After the students are exposed to different types of computer applications and tools, they will gain more in-depth experience in an application that interests them.</p> <ul style="list-style-type: none"> • Have laptops ready before class starts • Check Manaba and download all required files • Submit assignments on time • Do not be afraid to ask questions • Do not be afraid to challenge yourself • Save your work often 									
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)									
Students must be able to solve STEM problems by breaking them down into smaller, more manageable pieces. They must also be able to think like a computer for performing various tasks. Finally, they should also be able to apply creative thinking to technical tasks in order to produce media.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	g,h	Practice working with 3D Modelling							
②	a,h	Apply technical skills to UAV drone applications / video gimbal usage							
③	f	Understand basic concepts of video editing							
④	a,e	Explore various kinds of video techniques and special effects							
⑤	e,f	Express oneself through creative projects							
⑥	e,i	Reflect on one's own interests to develop an idea for a self-directed project							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	0	0	40	60	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	20	0	0	20
	Ability to think, reason and create	0	0	0	0	20	0	0	20
	Collaboration and leadership	0	0	0	20	10	0	0	30
	Announcement / Expression / Communication	0	0	0	20	0	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	
	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)
<ul style="list-style-type: none"> ① Create a relatively complicated 3D model simulation / animation ② Controlling a drone to do complicated movements ③ Understand appropriate situations for editing features ④ Create videos with multiple effects, techniques, clips ⑤ Apply creative thinking to realizing an original idea ⑥ Create a captivating presentation to explain their project 	<ul style="list-style-type: none"> ① Create a basic 3D model simulation / animation ② Controlling a drone to do basic movements ③ Recognize the purpose of an editing feature ④ Create simple videos from multiple clips ⑤ Create media from an original idea ⑥ Present their project clearly

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 (Minute s)
1 /	Orientation and Fusion 360 (1) Students will be introduced to the course and install the required software on their PCs. Students will learn how to create a 3D assembly model in Fusion 360.	Guidance Self-Study	The teacher will announce assignments in class.	40
2 /	Fusion 360 (2) Students will learn how to create animations and exploded views in Fusion 360.	Guidance Self-Study	The teacher will announce assignments in class.	40
3 /	Fusion 360 (3) Students will explore the use of 3D scanning.	Guidance Self-Study	The teacher will announce assignments in class.	40
4 /	Fusion 360 (4) Students will learn how to stress test 3D objects and experiment with different materials to see the results.	Guidance Self-Study	The teacher will announce assignments in class.	40
5 /	Fusion 360 (5) Students will learn how to create renderings using lightings and environmental settings for their 3D models	Guidance Self-Study	The teacher will announce assignments in class.	40
6 /	Fusion 360 (6) Student to propose and work on their original ideas for their 3D projects	Guidance Self-Study	The teacher will announce assignments in class.	40
7 /	Fusion 360 (7) Student to present their 3D projects (motion, animation and renderings) Students to be briefed for the next unit and software required.	Guidance Self-Study Presentation	The teacher will announce assignments in class.	40
8 /	Adobe Premiere CC (1) Students will learn basic functions in the software such as video tracks, sound tracks, and multi-clips.	Lecture Exercises	The teacher will announce assignments in class.	40
9 /	Adobe Premiere CC (2) Student will learn how to apply transitions to clips and audio Students will learn how to add title animations and special effects to a video.	Lecture Exercises	The teacher will announce assignments in class.	40
10 /	Adobe Premiere CC (3) Students will learn color grading and color adjustments to the video Students will learn how to apply clip mask to the video Student will learn how to use green screening	Lecture Exercises	The teacher will announce assignments in class.	40

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 /	Drone Video Control / Gimbal Control (1) Students will learn safety and fundamentals of operating the drone before practicing some simple controls	Lecture Exercises	The teacher will announce assignments in class.	40
12 /	Drone Video Control / Gimbal Control (2) Student will plan the flight and control the drones to capture various fixed points as a video	Lecture Exercises	The teacher will announce assignments in class.	40
13 /	Drone Video Control / Gimbal Control (3) Students will learn control techniques and applications for the Gimbal Student to conceptualize and propose the theme of the group video project	Lecture Exercises Guidance Self-Study	The teacher will announce assignments in class.	40
14 /	Adobe Premiere CC (4) Student to continue their work on the group project and learn to add in end credits for their video	Guidance Self-Study	The teacher will announce assignments in class.	20
15 /	Adobe Premiere CC (5) Student to complete their group video project and present it in class	Guidance Self-Study Presentation	The teacher will announce assignments in class.	20

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Computer Skills IIB		1	509800	Second	Exercises Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
2	SONGER, Robert / INOUE, Keisuke		HakusanrokuC 101.201				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 21 st century. In this course, students will examine fundamental concepts of computer programming with JavaScript, a language that complements their prior knowledge of HTML and CSS. 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	JavaScript								
3	Self-Directed Learning								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>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 using JavaScript. Students will be able to apply their programming knowledge through creating interactive animations. 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.</p> <ul style="list-style-type: none"> • Focus on class. Close unrelated programs on your laptop and listen when the teacher speaks. • Check Manaba days before each class for reading & assignments. • Submit each assignment on time, or talk to the teacher if you have trouble. • Do not be afraid to ask questions. • Do not worry if programming is difficult for you. Everybody struggles at the beginning. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: “JavaScript: Absolute Beginner’s Guide, 2nd Edition”, Que Publishing									
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. They must also have a basic understanding of how modern websites are created with HTML and CSS. 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	h	Understand the ways that JavaScript can interact with HTML and CSS on a web page							
④	a, h	Apply computer programming skills to other STEM fields							
⑤	e, i	Reflect on one’s own interests to develop an idea for a self-directed project							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	20	20	20	40	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	0	0	10	0	0	20
	Ability to think, reason and create	0	0	10	10	10	0	0	30
	Collaboration and leadership	0	0	5	0	0	0	0	5
	Announcement / Expression / Communication	0	0	5	10	10	0	0	25
	Attitude and motivation for learning	0	10	0	0	10	0	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	Students will take quizzes instead of exams in order to confirm their understanding of material. Each one is short and will include questions intended to find gaps in student's understanding. They will also reinforce the reading assignments from the textbook.	
	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.	
	②		✓
	③		✓
	④		✓
	⑤		
	⑥		
Presentations	①	There is a presentation at the end of the JavaScript unit and one at the end of the Focus Area Project. Each one is an opportunity for students to share their final works.	
	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.	
	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)
<ul style="list-style-type: none"> ① Recognize the value of having skills in programming ② Explain functions, objects, and arrays ③ Explain JavaScript code for handling HTML & CSS ④ Design a programming solution to a STEM problem ⑤ Create a study plan for developing skills of interest 	<ul style="list-style-type: none"> ① Identify areas where programming is used ② Identify variables, conditional statements, and loops ③ Recognize JavaScript in a web page's source code ④ Frame a STEM problem in programming terms ⑤ 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, and review HTML & CSS content from last year.	Lecture Discussion Exercises	Review HTML & CSS from Computer Skills IB	20
2 /	Programming in JavaScript (1) Students will learn about statements, variables, and functions.	Lecture Exercises	Preview: Textbook Chapters 1 – 3 Review: The teacher will announce assignments in class.	30
3 /	Programming in JavaScript (2) Students will learn about conditional statements and loops.	Lecture Exercises	Preview: Textbook Chapters 4 – 5 Review: The teacher will announce assignments in class.	30
4 /	Programming in JavaScript (3) Students will learn about variable scope and closures.	Lecture Exercises	Preview: Textbook Chapters 8 – 9 Review: The teacher will announce assignments in class.	30
5 /	Programming in JavaScript (4) Students will learn about types, primitives, objects, and arrays.	Lecture Exercises	Preview: Textbook Chapters 12 – 13 Review: The teacher will announce assignments in class.	30
6 /	Programming in JavaScript (5) Students will learn about strings and numbers.	Lecture Exercises	Preview: Textbook Chapters 14 – 16 Review: The teacher will announce assignments in class.	30
7 /	Programming in JavaScript (6) Students will learn about the Document Object Model (DOM) and how to manipulate it with JavaScript.	Lecture Exercises	Preview: Textbook Chapters 24 – 26 Review: The teacher will announce assignments in class.	30
8 /	Programming in JavaScript (7) Students will learn about dynamic styling and events.	Lecture Exercises	Preview: Textbook Chapters 27 & 33 Review: The teacher will announce assignments in class.	30
9 /	Programming STEM Project (1) Students will choose a STEM problem to solve with programming and devise a solution.	Guidance Self-Study	Preview: Think about how you might program problems from your STEM classes.	10
10 /	Programming STEM Project (2) Students will develop their programming solutions for STEM problems.	Guidance Self-Study	Review: Work on your STEM program.	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 (3) Students will complete their programming solutions and present them to the teacher.	Guidance Self-Study Presentations	Review: Finish your STEM program and add it to your Portfolio website.	30
12 /	Focus Area Project (1) Students will generate and explore ideas for gaining some new skill in one of the software applications used up to now.	Guidance Self-Study	The teacher will announce assignments in class.	30
13 /	Focus Area Project (2) Students will make a self-study plan for their new computer skill and implement it.	Guidance Self-Study Online	The teacher will announce assignments in class.	30
14 /	Focus Area Project (3) Students will continue their self-study for learning a new computer skill.	Guidance Self-Study	The teacher will announce assignments in class.	30
15 /	Focus Area Project (4) Students will present and demonstrate their new computer skill in front of the class.	Guidance Presentations	The teacher will announce assignments in class.	30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Global Studies		2	510100	First	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
3	DUNBAR, Nathan								
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Study and life skills		The students will learn necessary study and life skills for a study-abroad program in this class: 1) essential academic policies and expectations as international students, including the effective use of the learning support system at Otago Polytechnic 2) the manners and policies for a smooth homestay experience. 3) local geography, culture, and activities on and off campus.						
2	Academic and culture orientation								
3	Learning support system								
4	Homestay experience								
5	Living experience								
Course Description and Expectations for Students (10.5pt)									
In this class, students will understand the policies and expectations to study and live at Otago Polytechnic in Dunedin.									
<u>Study-skills and Campus system</u>									
1) The academic policies and the learning system of Otago Polytechnic.									
2) Expected manners and efforts in class									
3) The use of IT devices and the Internet									
<u>Life-skills</u>									
1) Homestay policies and manners									
2) Campus and City navigation system									
3) Sports and cultural activities in Dunedin									
All the assignments needs to be submitted on time.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Speaking and Listening skills, Reading and Writing Skills, Bridge English									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b,d,i	The students are able to understand and act on the essential academic policy and manners.							
②	b,d,e, i	The students are able to understand and act on the homestay policies and manners.							
③	b,d,i	The students are able to navigate themselves on how to ask for a help with academic and life issues properly when needed.							
④	e,i	The students are able to understand geographical features and how they affect lifestyles							
⑤	b, e, f, i	The students are able to express the cultural differences between New Zealand, Japan or native country.							
⑥	b, e, f, i	The students are able to discuss and reflect on family lifestyles in different ethnic environments							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	10	40	40	0	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	5	10	10	0	2	0	27
	Ability to think, reason and create	0	5	10	10	0	2	0	27
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	10	0	3	0	13
	Attitude and motivation for learning	0	0	20	10	0	3	0	33

* 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	
	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)
<p>The students complete all the assignments on time/ahead of submission dates.</p> <p>Having frequent interaction with instructors, other students, host families, and communities.</p> <p>Detailed and well thought out Moodle reflections.</p>	<p>The students complete and handed in on time.</p> <p>Having consistent communication with instructors, other students, host families, and communities</p> <p>Detailed Moodle reflections.</p>

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 /	Technology and Online Resources on Campus Navigating Moodle Using Microsoft Teams	Lecture / Interaction		
2 /	Self-introductions Talking about self and identity	Lecture	PowerPoint Presentation about self	
3 /	Locations and Living Environments (geography, hometown, NZ etc.)	Lecture		
4 /		Lecture	Pamphlet task	15
5 /		Student presentations	Prepare the materials according to a lecture	15
6 /		Lecture		
7 /		Lecture		
8 /		Student presentations		
9 /	Festivals	Lecture	Prepare the materials according to a lecture	15
10 /	Education Academic Expectations	Lecture	Prepare the materials according to a lecture	15
11 /		Lecture	Prepare the materials according to a lecture	15

12 /		discussion		
13 /	Planning and goals	Lecture		15
14 /		Lecture		15
15 /		Exercises		
16 /		Lecture	Detailed personal plan	

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)
17 /	Expressing yourself (Facts, claims, opinions)	Lecture	Prepare the materials according to a lecture	15
18 /		Lecture		15
19 /		Lecture		
20 /		Debate		
21 /	Homestay and Lifestyles	Lecture	Prepare the materials according to a lecture	15
22 /		Student presentation		
23 /	Politeness and Manners Requests and Permissions Offers Apologies	Lecture		15
24 /		Lecture		15
25 /	Health and Nutrition	Lecture		15

26 /		Discussion	Prepare the materials according to a lecture	15
27 /		Lecture	Prepare the materials according to a lecture	15
28		Exercises		
29	Entertainment	Lecture		
30		Student presentation		

2021 Syllabus

Instructor with “*” means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept S. General Required	Global Life and Culture (For students who live in Japan)	4	510200	All year	Online/Lecture/ Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
3	FUDANO, Hiroko / BAIRD, Pauline / KURODA, Fumi	Hakusanroku C 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	Culture	Students will be able to deepen their interest in various aspects of different cultures, including lifestyle, housing, food, fashion, manners, customs, pastimes, working styles, nature, and history. Through contact with people with different cultural backgrounds, students will explore a variety of values and beliefs, experiencing the joys and challenges of intercultural exchange. Students will learn to see their own culture from a comparative perspective, improving their ability to express their own standpoint while respecting their own and different cultures.							
2	Diversity								
3	Values and beliefs								
4	Intercultural exchange								
5	Comparative perspective								
Course Description and Expectations for Students									
<p>In this course, the following topics will be covered in seven units: Living in multi-cultural context, Ceremonial Occasions, Religions, Foods, Social Systems, Technology, Music / Fashion / Subculture.</p> <p>For each unit, students need to submit: (1) a research topic of their interest in each unit category on a Padlet sheet, (2) Journal 1 with some information research on the chosen research topic (to the Report folder on <i>manaba</i>), and (3) Journal 2 with the summary of their findings from listening to and observing five or more people of various backgrounds (e.g., generation, gender, occupation, nationality) about their opinions and attitudes about the chosen research topic (to the Report folder on <i>manaba</i>). (4) Then, prepare a Power Point presentation with about 10 slides in English summarizing their findings from the previous assignments, and give an oral presentation in a class meeting. (Submit the PP file to the Portfolio folder on <i>manaba</i>.)</p> <p>Advice: (1) Some class sessions in each unit are conducted in the “Self-Directed” study style instead of face-to-face or online lectures. Check the course syllabus for the class meeting schedule. (2) Positively communicate with people with diverse backgrounds during the course. (3) Try to see things from various aspects so that you can more deeply understand the given topic.</p> <p>【Required Materials】 None</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Ability to express one’s own ideas, feelings, and observations in English and / or Japanese. Ability to write and reflect on life at home and overseas. Ability to organize ideas into a journal. Ability to use feedback to improve thought and expression.									
No.	Program Objectives	Target Abilities for Students							
①	a	Students will be able to communicate with people in the world using English.							
②	e	Students will be able to understand the ways of life in various cultures and enjoy them.							
③	f	Students will be able to express their findings and ideas/thoughts through engaging the assignments.							
④	g	Students will be able to explore a variety values and beliefs.							
⑤	e	Students will be able to listen to and observe various people to deepen their interests about different cultures.							
⑥	f	Students will be able to improve their ability to express their own standpoint.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		0	0	50	0	0	50	0	100
Comprehensive Strength Criterion	Ability to capture knowledge	0	0	20	0	0	20	0	40
	Ability to think, reason and create	0	0	20	0	0	20	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	10	0	20
	Attitude and motivation for learning	0	5	0	0	0	0	0	0

※ The numerical breakdown shown by Comprehensive Strength Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability		Evaluation Methods and Important Points
	①		
Exams	①		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①		
	②		
	③		
	④		
	⑤		
	⑥		
Report	①	✓	<p>(1) Students will choose a research topic of their interest, and complete the entry in the Padlet sheet for each unit. (Each entry is worth 10 points.)</p> <p>(2) Conduct research on the selected topic at various information sources, and write a Journal 1 to summarize the findings and their understanding about the research topic in either English or Japanese. (More than 250 words for English, or more than 400 characters for Japanese <u>in paragraph form.</u>) Submit it to manaba. (One journal submission by the due is given 10 points, and the max. of 10 points is given for the content quality.)</p> <p>(3) Listening to or observing the opinions and attitudes about the research topic of <u>5 or more people</u>, write a Journal 2 about the findings and their understandings in English or Japanese <u>in paragraph form.</u> (More than 250 words for English, or more than 400 characters for Japanese.) Submit it to manaba. (submission points 10 points, and the max. of content points 10 points)</p> <p>The subtotal of the points (50 points max. each unit) for 7 units is converted to count 50 % of the overall course grade.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentation	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolio	①	✓	<p>(1) In each unit, summarizing their findings through the two Journal assignments, students will prepare a 10-minute Power point presentation in English. The presentation will be graded on the content quality, organization, slide quality, and good presentation and Q&A manner for max. 30 points.</p> <p>(2) The submission of their slide files by the due date to manaba is given 20 points.</p> <p>The subtotal of the points (50 points max. each unit) for 7 units is converted to count 50 % of the overall course grade.</p>
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Others	①		
	②		
	③		
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will complete assignments in English or Japanese on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will complete assignments to a reasonable standard in English or Japanese. Students will respond to most feedback and will occasionally seek help.

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
12 13 / ~ /	同③、同④ ・課題トピックについて情報収集 Unit 2③&④ ・ Information gathering on the research topic	自主学習 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 6/11正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 6/11 Check the feedback comment.	180 20
14 15 / ~ /	同⑤、同⑥ ・課題トピックについて聞き取り及び観察 Unit 2 ⑤&⑥ ・ Listen to and observe people.	自主学習 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 6/18正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 6/18 Check the feedback comment	180 20
16 17 / ~ /	同⑦ ・課題トピックについての発表準備 Unit 2 ⑦ ・ Prepare a presentation on the research topic	自主学習 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 6/25正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 6/25	100
	同⑧ ・発表(英語)とディスカッション Unit 2 ⑧ ・ Presentations and discussion	6/25 4限 対面授業 発表・質疑応答 face-to-face meeting Lecture, Practice		
18 / /	ユニット3:宗教① ・講義「世界の三大宗教(仮)」とディスカッション ・取り組む課題トピックの選定 Unit 3 ① ・ Special lecture by a guest speaker ・ Research topic selection	7/2 4限 対面授業 講義と演習 face-to-face meeting Lecture, Practice	Padletシートを完成させる 7/5正午締切 Finish writing a research topic in the Padlet sheet. Due: Noon, 7/5	
19 20 / /	同②、同③ ・座禅体験 Unit 3 ②&③ ・ Zazen at a Buddhism temple	7/3 1-2限 学外授業 Off-campus activity		
21 22 / ~ /	同④、同⑤ ・課題トピックについて情報収集 Unit 3 ④&⑤ ・ Information gathering on the research topic	自主学習 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 7/9正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 7/9 Check the feedback comment.	180 20
23 24 / ~ /	同⑥、同⑦ ・課題トピックについて聞き取り及び観察 Unit 3 ⑥&⑦ ・ Listen to and observe people.	自主学習 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 7/30正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 7/30 Check the feedback comment	180 20
25 26 / ~ /	同⑧ ・課題トピックについての発表準備 Unit 3 ⑧ ・ Prepare a presentation on the research topic	自主学習 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 8/6正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 8/6	100
	同⑨ ・発表(英語)とディスカッション Unit 3 ⑨ ・ Presentations and discussion	8/6 4限 対面授業 発表・質疑応答 face-to-face meeting Presentation, Q&A		

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
27 / / /	ユニット4：食① ・講義「世界の発酵食品（仮）」とディスカッション Unit 4: Foods ① ・ Special lecture by a guest speaker and discussion	9/10 4限 対面授業 講義と演習 face-to-face meeting Lecture, Practice		
28 29 / /	同②、同③ ・糀パーク見学（仮） Unit4 ②&③ ・ Tour to Yamato Miso & Soy Sauce “Kohji” park	9/11 1-2限 学外授業 Off-campus activity		
30 31 / ~ /	同④、同⑤ ・課題トピックについて情報収集 Unit 4 ④&⑤ ・ Information gathering on the research topic	自主学习 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 9/17正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 9/17 Check the feedback comment.	180 20
32 33 / ~ /	同⑥、同⑦ ・課題トピックについて聞き取り及び観察 Unit 4 ⑥&⑦ ・ Listen to and observe people.	自主学习 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 10/8正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 10/8 Check the feedback comment	180 20
34 35 / ~ /	同⑧ ・課題トピックについての発表準備 Unit 4 ⑧ ・ Prepare a presentation on the research topic	自主学习 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 10/15正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 10/15	100
	同⑨ ・発表（英語）とディスカッション Unit 4 ⑨ ・ Presentations and discussion	10/15 4限 対面授業 発表・質疑応答 face-to-face meeting Presentations, Q&A		
36 37 / ~ /	ユニット5：社会制度① ・講義「社会制度の国際比較（仮）」とディスカッション Unit 5: Social Systems ① ・ Special lecture by a guest speaker and discussion	10/22 4限 対面授業 講義・演習 face-to-face meeting Lecture, Practice		
	同② ・取り組む課題トピックの選定 Unit 5 ② ・ Research topic selection	自主学习 Self-Directed Learning	Padletシートを完成させる 10/23正午締切	100
38 39 / ~ /	同③、同④ ・課題トピックについて情報収集 Unit 5 ③&④ ・ Information gathering on the research topic	自主学习 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 10/29正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 10/29 Check the feedback comment.	180 20

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
40 41 / ~ /	同⑤、同⑥ ・課題トピックについて聞き取り及び観察 Unit 5 ⑤&⑥ ・ Listen to and observe people.	自主学習 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 11/5正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 11/5 Check the feedback comment	180 20
42 43 / ~ /	同⑦ ・課題トピックについての発表準備 Unit 5 ⑦ ・ Prepare a presentation on the research topic	自主学習 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 11/12正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 11/12	100
	同⑧ ・発表(英語)とディスカッション Unit 5 ⑧ ・ Presentations and discussion	11/12 4限 対面授業 発表・質疑応答 face-to-face meeting Presentations, Q&A		
44 45 / ~ /	ユニット6:テクノロジー① ・講義「デジタル・ディバイド(仮)」とディスカッション Unit 6: Technology ① ・ Special lecture by a guest speaker and discussion	11/26 4限 対面授業 講義・演習 face-to-face meeting Lecture, Practice		
	同② ・取り組む課題トピックの選定 Unit 6 ② ・ Research topic selection	自主学習 Self-Directed Learning	Padletシートを完成させる 11/27正午締切	100
46 47 / ~ /	同③、同④ ・課題トピックについて情報収集 Unit 6 ③&④ ・ Information gathering on the research topic	自主学習 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 12/3正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 12/3 Check the feedback comment.	180 20
48 49 / ~ /	同⑤、同⑥ ・課題トピックについて聞き取り及び観察 Unit 6 ⑤&⑥ ・ Listen to and observe people.	自主学習 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 12/10正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 12/10 Check the feedback comment	180 20
50 51 / ~ /	同⑦ ・課題トピックについての発表準備 Unit 6 ⑦ ・ Prepare a presentation on the research topic	自主学習 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 12/17正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 12/17	100
	同⑧ ・発表(英語)とディスカッション Unit 6 ⑧ ・ Presentations and discussion	12/17 4限 対面授業 発表・質疑応答 face-to-face meeting Presentations, Q&A		

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
5 2 / / / /	ユニット7：音楽・ファッション・サブカル① ・講義「三味線とヴァイオリン（仮）」とディスカッション ・取り組む課題トピックの選定 Unit 7: Music, Fashion, and Subculture ① ・ Special lecture by a guest speaker and discussion ・ Research topic selection	1/28 4限 対面授業 講義と演習 face-to face meeting Lecture, Practice	Padletシートを完成させる 1/31正午締切 Finish writing a research topic in the Padlet sheet Due: Noon, 1/31	
5 3 5 4 / / /	同②、同③ ・楽器体験（仮） Unit 7 ②&③ ・ Challenge to play the musical instruments	1/29 1-2限 学外授業 Off-campus activity		
5 5 5 6 / ~ /	同④、同⑤ ・課題トピックについて情報収集 Unit 7 ④&⑤ ・ Information gathering on the research topic	自主学習 Self-Directed Learning	ジャーナル①を作成し、manabaに提出する 2/4正午締切 コメントを確認する Complete Journal ① and submit it to manaba. Due: Noon, 2/4 Check the feedback comment.	180 20
5 7 5 8 / ~ /	同⑥、同⑦ ・課題トピックについて聞き取り及び観察 Unit 7 ⑥&⑦ ・ Listen to and observe people.	自主学習 Self-Directed Learning	ジャーナル②を作成し、manabaに提出する 2/10（木）正午締切 コメントを確認する Complete Journal ② and submit it to manaba. Due Noon, 2/10 Check the feedback comment	180 20
5 9 6 0 / ~ /	同⑧ ・課題トピックについての発表準備 Unit 7 ⑧ ・ Prepare a presentation on the research topic	自主学習 Self-Directed Learning	PowerPointファイル(10頁程度・英語)を作成しmanabaに提出する 2/18正午締切 Create a Power Point file with approx. 10 slides in English, and submit it in manaba. Due: Noon, 2/18	100
	同⑨ ・発表（英語）とディスカッション Unit 7 ⑨ ・ Presentations and discussion	2/18 4限 オンライン 発表・質疑応答 Presentations, Q&A		

2021 Syllabus

Instructor with “*” means an instructor with company experience

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept S. General Required	Global Life and Culture (For students who live in New Zealand)	4	510200	All year	Online / Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
3	FUDANO, Hiroko / BAIRD, Pauline, KURODA, Fumi	Hakusanroku C. 101.201			(M-F) 16:30-17:30				
Course Objectives									
Keywords		Learning Objectives of the Course							
1	New Zealand Culture	Students will be able to deepen their interest in various aspects of New Zealand culture, including lifestyle, housing, food, fashion, manners, customs, pastimes, working styles, nature, and history. Through contact with local people with different cultural backgrounds, students will explore various values and beliefs, experiencing the joys and challenges of intercultural exchange. Students will learn to see their own culture from a comparative perspective, improving their ability to express their standpoint while respecting their own and different cultures.							
2	Diversity								
3	Values and beliefs								
4	Intercultural exchange								
5	Comparative perspective								
Course Description and Expectations for Students									
<p>Write! Be ready to submit weekly journals and one monthly reflection essay on Manaba. You can make up an assignment if you are sick or have an emergency; otherwise, late work will receive a penalty of 2 points deducted for each day late (including weekends).</p> <p>Advice: (1) It is required that you login to Manaba frequently access class updates and notices. (2) It is advised that you positively communicate with local people and teachers during the course. (3) Recognize cultural differences between Japan, New Zealand, and global communities while living abroad with an open mind.</p>									
【Required Materials】									
Textbooks:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites)									
Ability to express one's ideas, feelings, and observations in English and/or Japanese. Ability to write and reflect on topics and issues relating to life and culture at home and overseas. Ability to organize ideas into self-determined projects that will be written in a weekly journal. Ability to use feedback to improve thought and expression.									
No.	Program Objectives	Target Abilities for Students							
①	a	Students will be able to communicate with native English speakers in abroad.							
②	e	Students will be able to understand the ways of life abroad and enjoy it.							
③	f	Students will be able to express their experiences abroad through writing journals.							
④	g	Students will be able to explore a variety of values and beliefs.							
⑤	e	Students will be able to use observation to deepen their interests in New Zealand culture.							
⑥	f	Students will be able to improve their ability to express their own standpoint.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolio	Other	Total
Total Percentage		0	0	50	0	0	50	0	100
Comprehensive Strength Criterion	Ability to capture knowledge	0	0	20	0	0	20	0	40
	Ability to think, reason and create	0	0	20	0	0	20	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	10	0	20
	Attitude and motivation for learning	0	5	0	0	0	0	0	0

※ The numerical breakdown shown by Comprehensive Strength Criterion is an approximate guideline for class management.

Evaluation Method

Evaluation Method	Target Ability	Evaluation Methods and Important Points
Exams	①	
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	
	②	
	③	
	④	
	⑤	
	⑥	
Report	①	✓ 50% of the overall grade: Students will write weekly journals on a topic/issue.
	②	✓ You will choose a topic/issue that is of interest to you. Listen and observe in your community, the internet, peers, etc. and determine your journal's focus and content. Your journal will be at least 250 words in English or 400 characters for Japanese). Submit the journals in paragraph form in an MS Word file to Manaba. You will be graded for clear expression and organization and meeting the course requirements.
	③	✓
	④	✓
	⑤	✓
	⑥	✓ Your teacher will return your graded journals on the date that the next journal is due. Two (2) points will be deducted for each day your journal is late (includes weekends).
Presentation	①	
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	
	②	
	③	
	④	
	⑤	
	⑥	
Portfolio	①	✓ 50 % of overall grade: Students will REFLECTION on a variety of topics related to studying abroad.
	②	✓
	③	✓ You will write your reflections on assigned prompts in paragraph form (at least 400 words in English or 600 characters in Japanese). Submit reflections in a word file to Manaba.
	④	✓ Your reflections essay will be graded for clarity, clear organization, and meeting the courses' objectives. Your teacher will return the essay one week after the submission date on Manaba.
	⑤	✓
	⑥	✓ Two (2) points will be deducted for each day the reflection is late (including weekends). You will meet with your teacher by appointment in a Zoom meeting after the reflection essay.
Others	①	
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement	Description of Standard Achievement
Students will complete projects in English or Japanese on time and to a high standard. Students will respond appropriately to feedback and seek help when necessary to further improve.	Students will complete projects to a reasonable standard in English or Japanese. Students will respond to most feedback and will occasionally seek help.

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks is listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher’s guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
1 /	Module 1 Getting Internet Connection Login to Manaba/Read Syllabus April 28 -May 7	Getting Started: Manaba/ Reading the syllabus	Review syllabus	180 20
2 /	Getting Internet Connection Login to Manaba/Read Syllabus April 28 - May 7	Proposing topics for modules. Developing a plan for writing and submitting journals. (Zoom Online as needed)	Brainstorm topics for the modules. Make a bulleted list as a proposal of topics for your journal.	180 20
3 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences, and/or ideas on moving to a new location). Due May 21</i>	Reflective essay 1 (Zoom Online as needed)	Reflective essay Preparing for the next module.	180 20
4 /	Module 2 Journal 1- Due May 28	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
5 /	Journal 2 - Due June 4	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
6 /	Journal 3 - Due June 11	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
7 /	<i>Reflections (By listening and observing, write your reflection—thoughts, experiences and/or ideas on cultural conflicts, issues, and solutions of interest to you). Due June 25</i>	Reflective essay 2 (Zoom Online as needed)	Submit the journal Review comment from the teacher	180 20
8 /	Module 3 Journal 4- Due July 23	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
9 /	Journal 5- Due July 30	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
10 /	Journal 6- Due August 20	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20

Course schedule

About the CLIP learning process

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No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
11 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences and/or ideas on the environment).</i> Due September 10	Reflective essay 3 (Zoom Online as needed)	Submit the journal Review comment from the teacher	180 20
12 /	Module 4 Journal 7- Due September 17	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
13 /	Journal 8- Due October 8	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
14 /	Journal 9- Due October 16	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
15 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences and/or ideas on meeting people of different backgrounds).</i> Due October 22	Reflective essay 4 (Zoom Online as needed)	Submit the journal Review comment from the teacher	180 20
16 /	Module 5 Journal 10- Due October 29	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
17 /	Journal 11- Due November 5	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
18 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences and/or ideas on Japanese culture abroad).</i> Due November 12	Reflective essay 5 (Zoom Online as needed)	Reflective essay. Preparing for the next module.	180 20
19 /	Module 6 Journal 12- Due November 19	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
20 /	Journal 13- Due November 26	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20

Course schedule

About the CLIP learning process

* In the time column of the Assignments, the standard time required for the specified study tasks are listed. For study credit subjects, the time corresponding to each class (for example, In the case of a 2 credits course, please try to take 200 minutes per week for review and preview. Please follow the teacher's guidance for details.

No. Date	Class Content	Method	Assignments (10pt) (Preview and Review)	Time (minutes)
21 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences and/or learning abroad). Due December 3</i>	Reflective essay 6 (Zoom Online as needed)	Reflective essay. Preparing for the next module.	180 20
22 /	Module 7 Journal 14- Due December 10	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
23 /	Journal 15- Due December 17	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
24 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences, and/or ideas on language encounters with others of similar or different backgrounds). Due January 14</i>	Reflective essay 7 (Zoom Online as needed)	Reflective essay. Preparing for the next module.	180 20
25 /	Module 8 Journal 16- Due January 21	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
26 /	Journal 17- Due January 28	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
27 /	Journal 18- Due February 4	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
28 /	<i>Reflections (By listening and observing yourself and others, write your reflections, thoughts, experiences and/or views on the need for technical English in for personal use or for career building). Due February 11</i>	Reflective essay 8 (Zoom Online as needed)	Reflective essay. Preparing for the next module.	180 20
29 /	Module 9 Journal 19- Due February 18	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20
30 /	Journal 20- Due February 25	Listening, observing, writing based on student topic of interest.	Submit the journal Review comment from the teacher	180 20

Functional English

<i>SMS Code</i>	EE501001	<i>Teacher-directed learning hours</i>	150
<i>Level</i>	4	<i>Authentic work experience learning hours</i>	
<i>Credits</i>	15	<i>Student-managed learning hours</i>	
<i>Prerequisites</i>	No	<i>Total Learning Hours</i>	150
<i>NQF Unit standards assessed in this course: No</i>			
<i>This course approved in another Programme No</i>			

Aim

To enable students to communicate independently and effectively with fluency and flexibility in everyday social, community, and academic English language contexts

Learning Outcomes

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

1. Use oral and written English fluently to communicate in formal and informal settings
2. Identify and outline main ideas and key supporting evidence in formal and informal communication
3. Apply the principles of intercultural communication in context

Indicative Content

- Reading moderately complex English texts and commenting on them
- Listening to moderately complex English texts and commenting on them
- Participating in conversations about culture and society
- Analysing situations from a cultural perspective
- Writing a variety of texts in English in appropriate genre about social and cultural issues

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Test	10%	1-3	Percentage	Must pass with minimum 50 % overall
Oral Discussion	20%	1-3		
Portfolio	40%	1-3		
Presentation	30%	1-3		

Engineering English Communication (Engineering Communication)

SMS Code	EE502001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme No			

Aim

To enable students to communicate effectively in English in a global engineering environment

Learning Outcomes

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

1. Interpret ideas and concepts in complex English language texts in an engineering context
2. Communicate technical information in an engineering English context
3. Use English language to communicate instructions, information and decisions effectively
4. Demonstrate cultural awareness in a global engineering environment

Indicative Content

- Writing a technical report in English
- Writing engineering laboratory reports in English
- Giving a technical presentation based on a project
- Giving and receiving instructions in an engineering context
- Analysing engineering case studies from a technical and cultural viewpoint
- Reading and interpreting technical information related to engineering and IT contexts
- Participating in group project planning and implementation in an English language environment
- Analysing cultural norms and values relating to teamwork and project case studies

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Presentation	20%	1-4	Percentage	Must pass with minimum 50% overall
Report	20%	1-4		
Test	15%	1,2		
Portfolio	20%	2-4		
Practical	25%	1-4		

Introduction to Engineering Practice (Engineering Practice)

<i>SMS Code</i>	EE503001	<i>Teacher-directed learning hours</i>	150
<i>Level</i>	4	<i>Authentic work experience learning hours</i>	
<i>Credits</i>	15	<i>Student-managed learning hours</i>	
<i>Prerequisites</i>	No	<i>Total Learning Hours</i>	150
<i>NQF Unit standards assessed in this course: No</i>			
<i>This course approved in another Programme: No</i>			

Aim

To enable students to develop engineering principles and applications in an integrated, multidisciplinary project-based learning environment

Learning Outcomes

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

1. Operate safely in an engineering environment
2. Produce concept models and assemblies and apply these to create a project outcome
3. Demonstrate effective communication and cultural awareness in a project-based team environment

Indicative Content

- Team roles and effective team operation
- Integration of maths and physical science concepts into physical engineering projects
- 3D Cad for detail drawings and automated subtractive and additive engineering processes
- Safe use of a range of engineering and electrical hand and power operated tools for the manufacture of prototype parts
- Effective communication with engineering technicians and others providing client services
- Reflective practice for self-analysis of project work
- Effective presentation types, technologies, skills and techniques

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Project Team Contribution	30%	1-3	CRA	Must pass with minimum 50% overall
Project outcomes	30%	1-3		
Presentation	40%	2,3		

Engineering Project (Engineering Design III)

<i>SMS Code</i>	EE504001	<i>Teacher-directed learning hours</i>	300
<i>Level</i>	5	<i>Authentic work experience learning hours</i>	
<i>Credits</i>	30	<i>Student-managed learning hours</i>	
<i>Prerequisites</i>	No	<i>Total Learning Hours</i>	300
<i>NQF Unit standards assessed in this course: No</i>			
<i>This course approved in another Programme No</i>			

Aim

To enable students to apply engineering knowledge and problem-solving skills to conceive, design, implement and operate an engineering project to accepted standards

Learning Outcomes

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

1. Present a proposal for an engineering-based project
2. Formulate a work plan and procedures with consideration to environment and resource management, safety, ethical and cultural factors
3. Implement, operate, analyse and report on an engineering project outcome

Indicative Content

- Apply theoretical knowledge and practical skills to develop a desired engineering solution
- Create of an effective product prototype, computer model or proof of concept as the required outcome
- Design process that integrates mathematical and physical science concepts as appropriate to the outcomes
- Integration of maths and physical science concepts into physical engineering projects
- Demonstration of reflective practice throughout the project process
- Correct selection of effective presentation types, technologies, skills and techniques
- Recording of processes in appropriate media
- Teamwork and group negotiation skills

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Project outcomes	50%	1-3	Percentage	Must pass with minimum 50% overall
Presentation	15%	1-3		
Documentation	35%	1-3		

Engineering Mathematics

SMS Code	EE505001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme No			

Aim

To enable students to apply general mathematical principles and equip them with appropriate engineering mathematical skills to solve engineering problems

Learning Outcomes

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

1. Apply techniques of algebra to solve engineering-related problems
2. Apply complex numbers and matrices to solve engineering-related problems
3. Apply techniques of calculus including integration and differential equations to solve engineering-related problems

Indicative Content

- Graphs and trigonometric waves
- Algebraic expressions and equations
- Complex number forms, expressions, and equations
- Logarithms & exponentials
- Trigonometry
- Matrices and simultaneous equations
- Differentiation and integration techniques in an engineering context
- Differential equation techniques in an engineering context

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Collaborative Tutorials	15%	1-3	Percentage	Must pass with minimum 50% overall
Tests	35%	1-3		
Exam	50%	1-3		

Programming for Engineers (Programming 1)

SMS Code	EE506001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme Name of other Programme:			

Aim

To introduce students to the concepts of program design and programming fundamentals for engineering

Learning Outcomes

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

1. Decompose a simple problem into a series of computer operations
2. Use one logic depiction method and apply it to appropriate simple tasks
3. Create programs using basic programming constructs and simple data structures
4. Implement routines as functions and as procedures and apply common methods to access files within an application

Indicative Content

- Program Design
- Algorithms
- Structured diagrams UML
- If statements, Nested ifs, Switch statements
- Loops
- Arrays
- Data Types and Records
- Reading Files of Records
- Text files
- Version control

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Assignment	20%	1-4	Percentage	Must pass with minimum 50% overall
Tests	70%	1-4		
Lab tasks	10%	1-4		

Engineering Mechanics

SMS Code	EE507001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme No Name of other Programme:			

Aim

To enable students to analyse the fundamental principles and laws of mechanics

Learning Outcomes

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

1. Analyse static forces in mechanics and their relationship to engineering applications
2. Analyse dynamic force systems and their relationship to engineering applications
3. Analyse the principles of fluids for solving engineering-related problems

Indicative Content

- Basic mechanical theory as applied to 2-dimensional systems
- Systems of static loads and simple frameworks
- Shear force and bending moment diagrams
- Friction on level and inclined surfaces
- Centroid and Centre of Gravity
- Linear and angular motion
- Forces and motion
- Work and energy
- Relative motion
- Principles of fluids

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Tests	30%	1,2	Percentage	Must pass with minimum 50% overall
Laboratories	20%	1,2		
Exam	50%	1-3		

Platforms and Devices for Engineering (Engineering Computing)

SMS Code	EE508001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme: Name of other Programme:			

Aim

To enable students to use a range of devices, platforms and concepts utilised within the IT and engineering industry

Learning Outcomes

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

1. Use and recall systems tools, command line and scripting to configure, maintain, and secure operating systems in local and virtual settings.
2. Identify, explain, install and troubleshoot typical faults (both hardware and OS) for the main components of a computer.
3. Connect and configure a range of devices to enable network functionality

Indicative Content

- Installing, configuring and selecting PC hardware components
- Operating systems installation and maintenance (systems tools)
- Bootloaders
- Overview of operating systems (mobile, desktop, service, etc.)
- Use a VM & develop basic understanding of virtualisation
- Formats (media formats; open vs. binary)
- Basic use of transmission protocols (e.g. FTP, SSH)
- File systems
- Backup and RAID systems
- Troubleshooting hardware and software
- Connecting and configuring devices (Bluetooth, Wi-Fi, printers, etc.)/Mounting drives
- Command line proficiency
- Basic network configuration
- 'Embedded' (Raspberry Pi, Arduino, Development platforms)
- Environmental impact of IT
- Identify sustainability issues involved in purchasing, using and disposing of devices.

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Exam	40%	1,2	Percentage	

Skills-based Assessment	40%	2,3		Must pass with minimum 50% overall
Assignment	20%	1,2,3		

Electronic Principles

SMS Code	EE509001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme No Name of other Programme:			

Aim

To enable learners to apply general electronic skills to basic circuits

Learning Outcomes

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

1. Explain fundamental principles of digital and analogue electronics.
2. Apply electronic principles to basic electronic circuits.
3. Demonstrate the use of electronic measuring equipment.

Indicative Content

- Thevenin's theorem, superposition theorem and maximum power transfer theorem.
- Combinational logic circuits, sequential logic, registers, counters and encoders.
- Diodes, rectification and smoothing. Simple Zener and three-terminal regulated power supplies. Switching power supplies.
- Linear and switching operation of BJT and MOSFET devices.
- Operational Amplifier theory and applications.
- Electronic meters, oscilloscope, function generators and component testers.

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Assignments	30%	1-3	Percentage	Must pass with minimum 50% overall
Laboratories	20%	1-3		
Test	50%	1-3		

Material Science

SMS Code	EE510001	Teacher-directed learning hours	150
Level	5	Authentic work experience learning hours	
Credits	15	Student-managed learning hours	
Prerequisites	No	Total Learning Hours	150
NQF Unit standards assessed in this course: No			
This course approved in another Programme No			

Aim

To enable students to recognise the characteristics and properties of common engineering materials and elements of biology and chemistry relevant to mechanical and process engineering.

Learning Outcomes

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

1. Explain basic materials science chemistry and specify methods to change material properties
2. Test and analyse properties of materials used in engineering
3. Apply selection criteria for engineering materials and identify likely causes of material failure

Indicative Content

- Characteristics and properties of ferrous and non-ferrous metals, iron-carbon diagram, steels, cast iron, ferrous alloys, cold & hot working.
- Other materials such as ceramics, plastics, composites, timber and concrete
- Material testing, physical properties, tensile, compressive, fatigue, and NDT testing to relevant standards.
- Heat treatment processes and effects.
- Surface hardening processes.
- Surface coatings.
- Fibre reinforced composites, types of materials, types of reinforcements.
- Selection of materials for engineering applications.
- Case study approach to chemistry and biology covering processes relevant to industries such as HVAC, food production, fuel production, waste treatment, natural raw material processing (eg timber, meat, animal fibre, minerals etc)

Assessment

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Assignment	20%	1,3	Percentage	Must pass with minimum 50% overall
Project / Lab	30%	1-3		
Test	50%	1,2		

令和3年度 学習支援計画書

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		人文科学	2	510500	後学期	講義/学修			
対象学年	担当教員名		居室	電子メールID		オフィスアワー			
4年	平泉 紀房 清水 節		金沢キャンパス 21.604 21.605			授業時に予約			
授業科目の学習教育目標									
キーワード			学習教育目標						
1	日本の歴史		日本における歴史上の人物の生涯を学ぶことで、その生き方・考え方を知り、それらを通して日本人の特質・行動規範などについて理解し、今後の自身の問題と照らし合わせて考える。さらに、各種神話や建国伝承を学ぶことで、多様な価値観の存在を知るとともに、日本人の特質を考える。一方、諸外国のもつ多様な文化・価値観にも眼を向け、日本と異なる歴史や文化・伝統を公平に評価できる真摯な姿勢の大切さを学ぶ。これらのことを通じて、「読む・聞く・考える・書く」といった基礎的能力の向上を図る。						
2	日本の神話								
3	日本人の特質、国民性								
4	比較文化								
5	多様な価値観								
授業の概要および学習上の助言									
本講義は学修単位であるため、1単位を50分45回分の学習とし、100分授業15回に対して100分30回分の自学自習を行って下さい。 ☆本科目の授業概要は以下の通りである。 第1回～第7回目 テーマ：日本人の生き方・考え方に学ぶ 1. 日本の歴史上の人物に関する講義を聴き、その人物の生き方・考え方（行動規範）に学ぶ。 2. 日本の神話と世界の神話を比較して、日本人の特質を考える。 3. 日本の建国伝承から、国の成り立ちと建国の理想について学ぶ。 第8回目授業 テーマ：地域の歴史・文化を学ぶ 4. 白山と白山信仰について学習する。 第9回～第15回 テーマ：国際比較から日本の特質を考える 5. 日本、および日本人の特色や特質について、歴史や比較文化の観点から学ぶ。 6. グループ活動で「日本と外国」「過去と現在」の比較調査を行い、討議した成果を発表する。 7. 相互評価を行って、自身の学習成果について振り返りを行う。									
【教科書および参考書・リザーブドブック】									
教科書：指定なし 参考書：指定なし リザーブドブック：世界主要国価値観データブック〔同友館〕									
履修に必要な予備知識や技能									
1. 予習内容と聴講内容とを総合して理解し、提示されたテーマについて考察する能力 2. 適切な日本語で文章にまとめる能力 3. グループ討議に積極的に参加する姿勢、および調査・考察・発表を行うための基礎能力									
No.	教育目標(DP) (記号表記)	学生が達成すべき行動目標							
①	e	歴史上の人物から学んだ、生き方・考え方について、適切な日本語の文章で説明できる。							
②	e	日本・日本人の特質について、学習内容や調査内容をもとに適切な日本語の文章で説明できる。							
③	e	日本の建国伝承から学んだ国の成り立ちと建国の理想について、適切な日本語の文章で説明できる。							
④	e	海外の人々が多様な価値観をもっていることについて理解を深めることができる。							
⑤	e	グループ討議・発表を通じて、自己の見解を口頭および文章で表現することができる。							
⑥	i	本科目における学生の達成すべき行動目標を自己評価できる。							
達成度評価									
評価方法		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
指標と評価割合									
総合評価割合		0	0	62	20	0	10	8	100
総合力指標	知識を取り込む力	0	0	25	0	0	0	0	25
	思考・推論・創造する力	0	0	25	0	0	0	0	25
	コラボレーションとリーダーシップ	0	0	0	10	0	0	0	10
	発表・表現・伝達する力	0	0	12	10	0	0	0	22
	学習に取り組む姿勢・意欲	0	0	0	0	0	0	10	8

※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	
	②	✓
	③	
	④	✓
	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	✓
	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
<p>行動目標</p> <p>①②③④「授業レポート」において、課題の主旨と条件を満たし、評価基準に合致した適切な日本語の文章で、講義内容の要点および考察を具体的に記述できる。</p> <p>②④⑤グループ活動を通じて、日本と外国の比較調査を行い、その成果を明快に口頭発表することができる。</p> <p>⑥自己の達成度を適切な日本語表現で、明快に論述できる。</p>	<p>行動目標</p> <p>①②③④「授業レポート」において、課題の主旨と条件を満たし、評価基準に合致したある程度適切な日本語の文章で、講義内容の要点および考察を記述できる。</p> <p>②④⑤グループ活動を通じて、日本と外国の比較調査を行い、その成果を口頭発表することができる。</p> <p>⑥自己の達成度を適切な日本語表現で論述できる。</p>

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、Good Work!」：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ください。

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 /	☆科目説明 (ガイダンス) 本科目の概要及び授業運営についての説明を行う。 ☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	講義と質疑 授業レポート作成	復習：学習支援計画書や各種配布資料により、科目の教育目的と行動目標を確認する。	100
2 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ提出する。	前回の自己点検 講義と質疑 授業レポート作成	予習：『日本学資料集』の指定ページ部分を読んで理解してくる。 復習：返却された「授業レポート」を見直し、内容を確認する。	120 60
3 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	前回の自己点検 講義と質疑 授業レポート作成	予習：『日本学資料集』の指定ページ部分を読んで理解してくる。 復習：返却された「授業レポート」を見直し、内容を確認する。	120 60
4 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	前回の自己点検 講義と質疑 授業レポート作成	予習：『日本学資料集』の指定ページ部分を読んで理解してくる。 復習：返却された「授業レポート」を見直し、内容を確認する。	120 60
5 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	前回の自己点検 講義と質疑 授業レポート作成	予習：『日本学資料集』の指定ページ部分を読んで理解してくる。 復習：返却された「授業レポート」を見直し、内容を確認する。	120 60
6 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	前回の自己点検 講義と質疑 授業レポート作成	予習：『日本学資料集』の指定ページ部分を読んで理解してくる。 復習：返却された「授業レポート」を見直し、内容を確認する。	120 60
7 /	☆日本人の生き方・考え方に学ぶ 担当教員の講義を聴講して、日本人の生き方、日本国および日本人の特質について学び、提示されたテーマについて考察した内容を授業レポートにまとめ、提出する。	前回の自己点検 講義と質疑 授業レポート作成	ポートフォリオを提出する。	200
8 /	☆地域の歴史・文化を学ぶ オンラインで講義動画を視聴する 白山・白山信仰について学習する。	オンライン講義 教室での授業は行わない。 各自で講義動画を視聴し、聴講メモを作成する。	聴講メモの作成	200
9 /	☆第9回目以降の授業について (ガイダンス) 第9回目以降の授業目的・意義・運営方法について解説する。 ☆国際比較から日本の特質を考える 担当教員による講義を聴講する。取りあげるテーマや人物は、クラスや学科の特性に合わせる。	講義と質疑 演習 (レポート作成)	テキストの予習 レポート作成準備	100 100
10 /	☆国際比較から日本の特質を考える 担当教員による講義を聴講する。取りあげるテーマや人物は、クラスや学科の特性に合わせる。 ☆講義レポートの返却、学習成果の振り返り	講義と質疑 演習 (レポート作成)	テキストの予習 レポート作成準備	100 100

授業明細表

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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)
11 /	☆国際比較から日本の特質を考える 担当教員による講義を聴講する。取りあげるテーマや人物は、クラスや学科の特性に合わせる。 ☆講義レポートの返却、学習成果の振り返り	講義と質疑 演習（レポート作成）	テキストの予習 レポート作成準備	100 100
12 /	☆国際比較から日本の特質を考える グループ討議① 討議テーマに関する解説、および調査・考察・発表の方法について説明する。 また、インターネットやライブラリーセンターの蔵書などを活用し、官庁や研究所が公表している各種調査データを分析検討する。なお、各自で調査・考察した成果をグループ討議レポートにまとめる。	講義と質疑、演習 ノートパソコン、LANケーブルを持参する。	収集資料の整理と分析 プレゼンテーション準備 グループ討議レポートの作成	120 120 120
13 /	☆国際比較から日本の特質を考える グループ討議② 前回に続いて、グループ活動（調査・討議・発表準備）を行う。各自で調査・考察した成果をグループ討議レポートにまとめる。また、グループとして発表内容をまとめ、パワーポイントを作成する。	講義と質疑、演習 ノートパソコン、LANケーブルを持参する。	収集資料の整理と分析 プレゼンテーション準備 グループ討議レポートの作成	120 120 120
14 /	☆国際比較から日本の特質を考える グループ発表① 各グループの成果を発表し、質疑応答と相互評価を実施する。	演習（発表と質疑応答） 発表評価シートの作成 発表の反省 自己評価レポートの作成 グループ討議レポートの提出	発表評価シートの作成 発表の反省 自己評価レポートの作成	100 30 100
15 /	☆国際比較から日本の特質を考える グループ発表② 各グループの成果を発表し、質疑応答と相互評価を実施する。 ☆自己点検 これまでの学習成果について、教員・学生相互で確認を行う。	演習（発表と質疑応答） 自己評価レポートの提出	発表評価シートの作成 発表の反省	100 30

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S General Required		Comprehensive English IB		1	511200	Second	Lecture Class		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	REYNOLDS, Stephanie IKOMA, Keith USUTUNOMIYA, Takako		Kanazawa C: 31.104				Friday 15:00-17:00		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Critical Thinking		In this course, students will be able to improve English communication skills while sharing opinions in group discussions, presentations, and in writing. Students will learn critical thinking skills and content related to the theory of knowledge including ways of knowing. Additionally, students will learn and apply effective and appropriate communication strategies in discussions, presentations, and writing.						
2	Communication								
3	Knowledge								
4	Writing								
5	Presentation								
Course Description and Expectations for Students (10.5pt)									
<p>Students will prepare and participate in English discussions using the language skills that are already known. Students will practice and apply new strategies for effective communication in discussions, presentations, and writing. Students will write one reaction/response essay and prepare one collaborative, research-based presentation.</p> <p>It will be important for students to share their own opinions in relation to information from a variety of sources. Therefore, students will learn how to appropriately reference and cite sources. Students should be prepared with a binder or folder to keep handouts, writing tools for in-class work, and laptop computers for preparing presentations, researching related information, downloading class materials, and submitting online assignments.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Reference books: Van Den Lagemaat, Richard. (2015). Theory of Knowledge for the IB Diploma, Second Edition. Cambridge University Press.</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Intermediate English ability Basic computer skills</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to share opinions and ideas through discussions in English.							
②	h	Students will be able to think critically about various topics related to ways of knowing.							
③	g	Students will be able to write a reaction/response essay.							
④	c	Students will be able to make presentations in English.							
⑤	c	Students will be able to apply effective communication strategies in presentations and writing.							
⑥	b	Students will be able to reference and cite sources appropriately.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	20	30	30	0	20	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	5	10	5	0	5	0	25
	Ability to think, reason and create	0	5	10	5	0	5	0	25
	Collaboration and leadership	0	0	0	10	0	5	0	15
	Announcement / Expression / Communication	0	5	10	10	0	0	0	25
	Attitude and motivation for learning	0	5	0	0	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	<p>Eight vocabulary, skill review, and reading/listening comprehension quizzes based on the content of in-class activities and assignments (20%):</p> <p>Feedback will be given in the next class session and on Manaba.</p>	
	②		✓
	③		
	④		
	⑤		✓
	⑥		
Reports	①	<p>One reaction/response essay (30%)</p> <p>Essay includes an outline, first draft, 2 writing conferences, and final draft.</p> <p>Feedback will be given in the next class session and on Manaba.</p>	
	②		✓
	③		✓
	④		
	⑤		✓
	⑥		✓
Presentations	①	<p>One jigsaw presentation project (30%)</p> <p>Project includes an outline, delivery of presentation, preparation of supplementary materials, and self-evaluation/reflection.</p> <p>Feedback will be given in the next class session and on Manaba.</p>	
	②		✓
	③		
	④		✓
	⑤		✓
	⑥		✓
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①	<p>In-class or assignment handouts for discussion activities (20%)</p> <p>Feedback will be given in the next class session and on Manaba.</p>	
	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)
<p>Professional-level, academic writing and presentations.</p> <p>Discuss 100% in fluent English.</p>	<p>Comprehensible writing and presentations.</p> <p>Discussions mostly in English.</p>

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 be introduced to the syllabus and contents of the course. Students will participate in brainstorming and background building communication activities.	Brainstorming as a pre-reading technique, individual, pair, and group work; discussion	Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
2 /	Students will review and discuss topics related to the theme. Theme: Common sense & Certainty Quiz 1 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
3 /	Students will review and discuss topics related to the theme. Theme: Radical doubt & Relativism Quiz 2 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
4 /	Students will review and discuss topics related to the theme. Theme: What should we believe? Quiz 3 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
5 /	Students will review and discuss topics related to the theme. Theme: Levels of Knowledge Quiz 4 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
6 /	Students will review, discuss, and brainstorm ideas and opinions. Students will research related information to support their ideas. Theme: Types of Knowledge Quiz 5 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Review: Complete outline and Reaction/Response Essay Draft 1	50
7 /	Students will brainstorm ideas and opinions. Students will research and learn how to appropriately reference sources to write a reaction/response essay.	Individual, pair, and group work; discussion	Review: Complete Reaction/Response Essay Final Draft due Class 9	50
8 /	Students will participate in writing conferences. Students will create teams, choose topics, and participate in brainstorming and background building communication activities.	Individual, pair, and group work; discussion	Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
9 /	Students will research information related to their topic and learn how to appropriately reference sources for a presentation.	Individual, pair, and group work; discussion	Review: Start presentation outline	50
10 /	Students will continue to research and organize presentation contents.	Individual, pair, and group work; discussion	Review: Complete presentation outline	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 /	Students will prepare presentation slides and supplementary materials for their presentation. <i>Reaction/Response Essay Returned</i>	Individual, pair, and group work; discussion	Review: Complete presentation slides and supplemental materials Reading – Various articles, book/web resources	50
12 /	Jigsaw Presentation/Discussion Theme: Language, Sense Perception, Reason Students will deliver presentations and lead discussions/activities based on supplemental materials connected to their topic of research. Quiz 6 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
13 /	Jigsaw Presentation/Discussion Theme: Emotions, Intuition, Imagination Students will deliver presentations and lead discussions/activities based on supplemental materials connected to their topic of research. Quiz 7 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Reading – Various articles, book/web resources	50
14 /	Jigsaw Presentation/Discussion Theme: Memory, Faith Students will deliver presentations and lead discussions/activities based on supplemental materials connected to their topic of research. Quiz 8 – Vocabulary and reading comprehension	Individual, pair, and group work; discussion	Preview: Study for the quiz Review: Complete the worksheet based on the class activities. Review: Complete written reflection	50
15 /	Self-Evaluation Students will be given oral and written feedback both overall and individually on their work. Students will also be encouraged to share their feedback about the course. <i>Presentation/Discussion Project Returned</i>	Individual, pair, and group work; discussion		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Required	Health and Physical Education III B	1	511600	Second	Experiment / Practice Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	TAKIMOTO, Akihiro CADZOW, Philip	Hakusanroku C 101.201			Tuesday 16:30 - 17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Lifelong sports	<ul style="list-style-type: none"> - Adopt sports in everyday life to keep and promote health. - Take part in sports with precautions for safety's sake. - Following rules while taking part in sports. - Take part in sports with pleasure. 							
2	Safety								
3	Following rules								
4	Pleasure of sports								
5									
Course Description and Expectations for Students (10.5pt)									
<p>Basic living health, Preparations for sports day, Preparations for ball game day, Tennis, and Badminton.</p> <ol style="list-style-type: none"> 1. Wear proper sports attire. (the P.E. instructor will check it each time). 2. Since sports can be dangerous, pay attention to safety. 3. Understand the importance of lifelong sports. 4. Understand the pleasure of sports. <p>Take part in sports with an application for improvement.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Reference books: Active sports 2020 Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Be instructed in news and information about sports and health. Examine the rules of tennis, singles, and doubles badminton.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d	Students will be able to understand lifelong sports							
②	d	Students will be able to understand basic strength							
③	d	Students will be able to understand safety of sports							
④	e	Students will be able to understand doubles badminton							
⑤	e	Students will be able to understand tennis							
⑥	e	Students will be able to understand singles badminton							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	0	20	30	0	0	50	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	20	0	0	0	0	20
	Ability to think, reason and create	0	0	0	15	0	0	0	15
	Collaboration and leadership	0	0	0	15	0	0	0	15
	Announcement / Expression / Communication	0	0	0	0	0	0	0	0
	Attitude and motivation for learning	0	0	0	0	0	0	50	50

* 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 must submit reports about the rules of badminton and tennis. Full points of each report is 10 points. Total points is 20 points.	
	②		
	③		
	④		✓
	⑤		✓
	⑥		✓
Presentations	①	Full points for badminton is 15 points. The point total on the badminton games is 15. The point total for tennis is 15 points. Combined is 30 points.	
	②		
	③		
	④		✓
	⑤		✓
	⑥		✓
Works	①		
	②		
	③		
	④		
	⑤		
	⑥		
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①	PE will be important for students to understand their health and physical strength, and this class will be an opportunity of experiences in life long sports. Students eagerness, effort, attendance, and attitude will be evaluated.	
	②		✓
	③		✓
	④		
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
1) The ideal students will be able to understand lifelong sports enough.	1) The ideal students will be able to understand lifelong sports generally.
2) The ideal students will be able to understand safety enough	2) The ideal students will be able to understand safety generally
3) The ideal students will be able to understand the pleasure of sports enough	3) The ideal students will be able to understand the pleasure of sports generally
4) The ideal students will be able to understand the rules of badminton enough	4) The ideal students will be able to understand the rules of badminton generally
5) The ideal students will be able to understand the rules of tennis enough	5) The ideal students will be able to understand the rules of tennis generally

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 /	Understand the rules and gameplay of doubles match tennis games	Lecture and demonstration of procedure of class and tennis matches	Report on the rules and components on the doubles match	100
2 /	Practice doubles tennis matches	Games	Games	100
3 /	Practice doubles tennis matches	Games	Games	100
4 /	Practice doubles tennis matches	Games	Games	100
5 /	Practice doubles tennis matches	Games	Games	100
6 /	Understand the rules and equipment in use for singles badminton.	Lecture on badminton singles gameplay	Report on rules and components of singles badminton.	100
7 /	Understand the singles badminton gameplay	Lecture on the singles gameplay	Games	100
8 /	Singles badminton matches	Games	Games	100
9 /	Singles badminton matches	Games	Games	100
10 /	Singles badminton matches	Games	Games	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 /	Singles badminton matches	Games	Games	100
12 /	Understanding the doubles badminton gameplay and rules	Lecture on doubles badminton	Games	100
13 /	Doubles badminton matches	Games	Games	100
14 /	Doubles badminton matches	Games	Games	100
15 /	Doubles badminton matches	Games	Games	100

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required *Practical	Engineering Design IVB	2	520300	Second	Experiment/Practice Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	*ITO, Kouhei *FUJISAWA, Takeshi *SODE, Mikiko	31.124 31.104 31.109-1			Wednesday 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Expertise	We aim to develop human resources who have the ability to overlook engineering in the future and who can lead the project as leaders. Therefore, in the 4th grade, students will voluntarily acquire knowledge and skills in various fields through practical training. Through practical training, we also aim to improve theoretical thinking, decision-making, problem-solving processes, technical communication skills, and presentation skills.							
2	Theoretical thinking/Decision making								
3	Problem-solving process								
4	Information gathering and analysis								
5	Presentation								
Course Description and Expectations for Students (10.5pt)									
<p>Based on the advice of faculty members, the team decides on a "theme" that applies knowledge in specialized fields of mechanical engineering, information engineering, and business, and carries out project activities.</p> <p>In addition to the knowledge and experience that you have already acquired, you will learn how to collect and share the information necessary to proceed with the project, and gain new knowledge through research through practical training. Then, carry out activities based on logical thinking.</p> <p>The flow is slightly different depending on the main theme, but basically, the project proceeds according to the following process. "Problem discovery-> Understanding the current situation-> Problem determination based on problem cause analysis and structural analysis-> Setting preconditions / achievement conditions for solution-> Determining solution plan"</p>									
<p>Relationship between this course and business experiences</p> <p>A faculty member who has practical experience in missile system design and guidance control system design reflects those design experiences in the class and explains using actual aircraft and missile models as examples.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Reference books: Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Knowledge and experience learned and acquired by the time of attendance.									
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 proceed with project activities as a team.							
⑤	d	Students will be able to explain their analysis and ideas logically, in an easy-to-understand manner.							
⑥	a	Students will be able to show an attitude of trying to objectively evaluate one's ability.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	0	20	30	0	50	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	5	0	0	10	0	15
	Ability to think, reason and create	0	0	5	0	0	10	0	15
	Collaboration and leadership	0	0	0	15	0	10	0	25
	Announcement / Expression / Communication	0	0	10	15	0	10	0	35
	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	
	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)
<ul style="list-style-type: none"> You can set a theme in your area of specialization. You can analyze various information for the theme and apply the acquired knowledge to solve problems. By collecting information, you can make logical evaluations based on data and facts and make decisions. You can solve problems as a team. 	<ul style="list-style-type: none"> Based on the advice of faculty members, you can set applied themes in specialized fields. Based on the advice of faculty members, you can analyze various information on the theme and apply the acquired knowledge to solve problems. Based on the advice of faculty members, you can collect information to make logical evaluations based on data and facts and make decisions. You can solve problems as a team based on the advice of teachers.

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)
1-2 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
3-4 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
5-6 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
7-8 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
9-10 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
11-12 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
13-14 /	Presentation	Presentation	Team activity / preparation of report materials	60
15-16 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
17-18 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
19-20 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60

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)
21-22 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
23-24 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
25-26 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
27-28 /	Project activity / review	Activity / Explanation / Report	Team activity / preparation of report materials	60
29-30 /	Presentation	Presentation	Team activity / preparation of report materials	60

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S General Elective * Practical	Entrepreneurship	1	520900	Second	Lecture Class				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	* TANIGUCHI, Moemi	Kanazawa C:31:310			Friday 15:30-17:00				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Entrepreneurship	In this course, we 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	Seven Sources								
5	Industry and Market Structure								
Course Description and Expectations for Students (10.5pt)									
We will learn and analyze some examples of businesses and persuading successful stories as "entrepreneurs". Through lectures and the search for real entrepreneurs, you can establish some simple guidelines to identify and take advantage of opportunities and ideas that come your way. Students are expected to actively acquire information on a day-to-day basis and be sensitive to changes in the world. <u>Relationship between this course and business experiences</u> Based on the teacher's previous investment and management experience in a venture capital division, the teacher will provide discussion materials on the key factors for entrepreneurial success.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: None Reference books: Innovation and Entrepreneurship, Peter Drucker 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	Be able to explain the role of an entrepreneur							
②	a,i,g	Know a lot of success stories and why							
③	c,g	Understand the challenges and risks involved in starting a new business							
④	c,g	Learn about the importance of management resources							
⑤									
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	0	60	20	10	0	10	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	0	0	0	0	0	0	0
	Ability to think, reason and create	0	0	60	0	0	0	0	60
	Collaboration and leadership	0	0	0	0	10	0	0	10
	Announcement / Expression / Communication	0	0	0	20	0	0	0	20
	Attitude and motivation for learning	0	0	0	0	0	0	10	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	✓
	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)
<p>Be able to play the role of an entrepreneur.</p> <p>Know a lot of success stories and the reason for their success.</p> <p>Understand the challenges and risks of starting a new business and know how to deal with them.</p>	<p>Be able to explain the role of an entrepreneur.</p> <p>Know a lot of success stories.</p> <p>Understand the challenges and risks involved in starting a new business.</p>

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 About entrepreneur	Lecture Q&A Discussion	Review the handouts Research & Report	50
2 /	Entrepreneurship Value	Lecture Q&A Discussion	Review the handouts Research & Report	50
3 /	Seven Sources for Innovation Opportunity	Lecture Q&A Discussion	Review the handouts Research & Report	50
4 /	Lecture (1)	Lecture Q&A Discussion	Review the handouts Research & Report	50
5 /	Lecture (2)	Lecture Q&A Discussion	Review the handouts Research & Report	50
6 /	Case study	Discussion Q&A	Review the handouts Research & Report	50
7 /	Lecture (3)	Lecture Q&A Discussion	Review the handouts Research & Report	50
8 /	Lecture (4)	Lecture Q&A Discussion	Review the handouts Research & Report	50
9 /	Case study	Discussion Q&A	Review the handouts Research & Report	50
10 /	Lecture (5)	Lecture Q&A Discussion	Review the handouts Research & Report	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 /	Lecture (6)	Lecture Q&A Discussion	Review the handouts Research & Report	50
12 /	Case Study	Discussion Q&A	Review the handouts Research & Report	50
13 /	Industry and Market Structure	Lecture Q&A Discussion	Review the handouts Research & Report	50
14 /	Review (1)	Group discussion Presentation	Research & Report	50
15 /	Review (2)	Presentation		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	AI Fundamentals	1	521100	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	INOUE, Keisuke	Kanazawa C: 31.308-2			16:30-17:30 (Mon. to Fri.)				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	AI	AI (Artificial Intelligence) is a fundamental topic in current society. This course introduces a foundation for responding to the new paradigm of science and technology. Students will be able to learn about the basic contents and perform basic operations in AI. Furthermore, students will be able to make elementary data construction which is necessary for machine learning.							
2	Image recognition								
3	Natural language analysis								
4	Interactive speech recognition								
5	Machine learning								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>In this course, you will systematically learn the basic mechanism of AI, basic/typical functions of AI, and the elementary theory of how machine learning works.</p> <p>The main topics are shown below:</p> <ol style="list-style-type: none"> 1. Image recognition 2. Natural language processing 3. Interactive voice recognition <p style="padding-left: 40px;">Bring a laptop computer every time to practice using the logic circuit simulator along with the lecture contents.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: None</p> <p>Reference books: None</p> <p>Reserved books: None</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Students must have the ability to express their ideas logically.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e	Can understand the basic examples based on image recognition in AI.							
②	e	Can understand the basic examples of natural language processing in AI.							
③	e	Can operate the basic operations of interactive voice recognition in AI.							
④	e	Can construct the basic data structures required for machine learning.							
⑤	e	Can adhere to the laws related to AI, respect AI ethics.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	20	20	20	30	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	10	10	5	0	55
	Ability to think, reason and create	0	0	10	0	10	5	0	25
	Collaboration and leadership	0	0	0	5	10	0	0	15
	Announcement / Expression / Communication	0	0	0	5	0	0	0	5
	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	There will be some quizzes to check students' understanding of the content.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Reports	①	There will be a report for every lesson. It will be done individually or in teams on a topic related to the content, chosen by the students.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Presentations	①	A group of students will discuss a theme related to AI and present their ideas.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Works	①	Students will have to hand in an assignment once a week.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Portfolios	①	Students must submit a portfolio every week to check their progress or understanding the content properly.	
	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 recognize the importance of AI in future society. Students further understand that using it is crucial to develop an efficient system.	Students can recognize the importance of AI to some extent. Students understand some of the terminologies.

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, introduction, basic operations	Guidance Exercises	The teacher will announce assignments in class.	200
2 /	Mathematical backgrounds	Lecture Exercises	The teacher will announce assignments in class.	200
3 /	Image recognition, laws, ethics	Lecture Exercises	The teacher will announce assignments in class.	200
4 /	Learn AI image identification focusing on numbers and letters. Learn the basics of the data structure for machine learning.	Lecture Exercises	The teacher will announce assignments in class.	200
5 /	Learn the basics of creating data for machine learning. Learn about image identification based on self-made data.	Lecture Exercises	The teacher will announce assignments in class.	200
6 /	Learn about natural language processing	Lecture Exercises	The teacher will announce assignments in class.	200
7 /	Learn about natural language processing and data analysis Learn interactive voice recognition	Lecture Exercises	The teacher will announce assignments in class.	200
8 /	Looking back on the whole, about machine learning. Group discussion and review.	Lecture Presentation	The teacher will announce assignments in class.	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept.S Specialized Required	Integrated Math and Sci. for Engineering I	4	521800	First	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	YAMAOKA, Hidetaka	Kanazawa C:23.403			Make an appointment in class				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Limit and Continuity	Students will learn: (1) limit value and continuity of functions. (2) exponential functions, logarithmic functions, trigonometric functions, and inverse trigonometric functions. (3) differentiation and its applications. (4) functions expressing the motion of an object.							
2	Exponential and Logarithmic Function								
3	Inverse Trigonometric Function								
4	Differentiation and its Applications								
5	Function of Motion								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. This is a basic course in integrated mathematics and science for engineering. We will cover the following topics: 1. Functions, their graphs, displacement of graphs, and the limit value and continuity of functions. 2. Equations and inverse functions. 3. Differentiation of various functions. 4. Applications of differentiation. Extra classes may be held depending the comprehension level of students. Students are required to review and preview each class. As a matter of particular emphasis, students are required to attempt the exercises after each class. Extra materials may be distributed if necessary. Students are required to show their solution/calculation procedure logically and clearly in each assignment. Students are expected to utilize the Math. and Science Education Research Center or the office hours of the teacher.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Calculus Volume 1, 2, 3 (OpenStax) https://openstax.org/details/books/calculus-volume-1 , https://openstax.org/details/books/calculus-volume-2 , https://openstax.org/details/books/calculus-volume-3 Reference books: Integrated Math and Science for Engineering I									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic calculation skills of numerical formulas (expansion, factorization, division, and calculation of fractional formula)									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Understand the theory, limits, and continuity of functions and draw graphs of functions.							
②	h	Understand the theory of differentiation and find the derivatives of basic functions.							
③	h	Understand the theory of power series expansion and find the approximate expressions of functions.							
④	h	Understand the function of motion and apply it to the differentiation.							
⑤	i	Understand the meanings of fundamental English words for mathematics.							
⑥	i	Be able to demonstrate an understanding of all topics, attend every class, and do the required work.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	64	16	0	0	0	20	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	0	0	0	0	5	25
	Ability to think, reason and create	0	12	8	0	0	0	5	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	16	4	0	0	0	5	25
	Attitude and motivation for learning	0	16	4	0	0	0	5	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	✓ Quiz 1 will focus on target abilities ① and ⑤. Quiz 2 will focus on target abilities ① and ⑤.
	②	✓ In the intermediate quiz, students will be evaluated on target abilities ① and ⑤.
	③	✓ Quiz 3 will focus on target abilities ② and ⑤. Quiz 4 will focus on target abilities ③ and ⑤.
	④	✓ In the final quiz, students will be evaluated on target abilities from ②, ③, and ⑤. The
	⑤	✓ quizzes 1-4 will comprise 6% of the overall evaluation (for a total of 24%) and the intermediate
	⑥	and final quizzes will comprise 20% of the overall evaluation (for a total of 40%).
Reports	①	✓ Students will be evaluated on the integrated subject (16%) which will focus on target abilities
	②	✓ ④ and ⑤.
	③	✓ Students are expected to display logical thinking in their reports.
	④	✓ Students are required to show their solutions/calculation procedures logically and are not
	⑤	✓ allowed to copy from others.
	⑥	✓ The subject and the report deadline will be announced by the teacher.
Presentations	①	
	②	
	③	
	④	
	⑤	
	⑥	
Works	①	
	②	
	③	
	④	
	⑤	
	⑥	
Portfolios	①	
	②	
	③	
	④	
	⑤	
	⑥	
Others	①	Students will be evaluated on homework, exercises, preparation, and review, which together
	②	will comprise 20% of the overall evaluation.
	③	Attendance and attitude in class are included in this category.
	④	Students are expected to utilize the Math. and Science Education Research Center or the office
	⑤	hours of the teacher if they have any questions.
	⑥	✓

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
(1) Accurately draw graphs of basic functions.	(1) Draw graphs of basic functions.
(2) Accurately explain the limit and continuity of a function.	(2) Explain the limit and continuity of a function.
(3) Accurately calculate exponential, logarithmic, trigonometric, and inverse trigonometric functions.	(3) Calculate exponential, logarithmic, trigonometric, and inverse trigonometric functions.
(4) Fully understand the theory of differentiation.	(4) Understand the theory of differentiation.
(5) Accurately calculate power series expansion and find the approximate expression of a function.	(5) Calculate power series expansion and find the approximate expression of a function.
(6) Accurately explain the motion of an object using the appropriate function.	(6) Explain the motion of an object using an appropriate function.
(7) Demonstrate an understanding of all topics and complete all homework.	(7) Demonstrate an understanding of all topics and complete all homework.

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 Functions	Instruction Lecture and exercise	Understand the objectives of the course Rev.: Definition of function Prev.: Graph of a function	30 100 70
2 /	Graph of a function	Lecture and exercise	Self-study: Polynomial function Rev.: Rational function, odd and even functions Prev.: Laws of exponents	50 100 50
3 /	Exponential functions	Lecture and exercise	Self-study: Calculation of exponential functions Rev.: Graph of an exponential function Prev.: Translation of graph	50 100 50
4 /	Displacement of a graph	Lecture and exercise	Self-study: Standard type of function Rev.: Displacement of a graph Prev.: Limit value of a function	50 100 50
5 /	Limit value of a function	Lecture and exercise	Self-study: Shape of graph Rev.: Limit value of an irregular function Prev.: Asymptote of a function	50 100 50
6 /	Continuity of a function	Lecture and exercise	Self-study: Gauss symbol Rev.: Continuous and existence theorem of a solution Prev.: Quiz 1	50 50 100
7 /	Quiz 1 Inverse functions	Quiz Lecture and exercise	Self-study: Graph of an inverse function Rev.: Quiz 1 Prev.: Power and radical root	50 100 50
8 /	Irrational functions	Lecture and exercise Return quiz results Self-check	Self-study: Logarithm Rev.: Graph of an irrational function Prev.: Calc. of a logarithm Self-check: Self-reflection	50 90 30 20
9 /	Logarithmic functions	Lecture and exercise	Self-study: Logarithm law, change-of-base formula Rev.: Exponential equations and inequalities Prev.: Definition of a trigonometric function	50 100 50
10 /	Trigonometric functions	Lecture and exercise	Self-study: Radian method, a trigonometric function Rev.: Graph of a trigonometric function Prev.: Def. of an inverse trigonometric function	50 100 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 /	Inverse trigonometric functions	Lecture and exercise	Self-study: An inverse trigonometric function Rev.: Graph of an inverse trigonometric function Prev.: Relationships among trigonometric functions	50 100 50
12 /	r-alpha method of trigonometric functions	Lecture and exercise	Self-study: Trigonometric addition formulas Rev.: r-alpha method Prev.: Quiz 2	50 50 100
13 /	Quiz 2 Functions using parameters	Quiz Lecture and exercise	Self-study: Equation of trajectory Rev.: Quiz 2 Prev.: Law of motion	50 100 50
14 /	Function of motion [Integrated subject]	Lecture and exercise Return quiz results Self-check	Exercises of integrated subject Prev.: Class contents of #1-#12 Self-check: Self-reflection	120 60 20
15 /	Review of the first half	Exercises for #1-#12	Review: Class contents of #1-#12	200
16 /	Intermediate quiz Displacement, velocity, and acceleration	Intermediate quiz Lecture and exercise	Self-study: Velocity and acceleration Rev.: Intermediate quiz, Confirmation of submission, attendance Prev.: Ave. rate of change	50 100 50
17 /	Review of intermediate quiz Differential coefficients	Return intermediate quiz results and reports on integrated subject Self-check of the first half Lecture and exercise	S-study: Diff. coefficients Rev.: Tangent and normal lines Prev.: Derivative functions Self-check: Int.med. quiz	50 80 50 20
18 /	Characteristics of derivative functions	Lecture and exercise	Self-study: Derivative of a power function Rev.: Derivatives of products and quotients Prev.: Derivatives of composite functions	50 100 50
19 /	Derivatives of composite functions Derivatives of inverse functions	Lecture and exercise	Self-study: Exercises on derivatives Rev.: Various derivatives Prev.: Derivatives of exponent. & log. functions	50 100 50
20 /	Derivatives of exponential and logarithmic functions Logarithmic differentiation	Lecture and exercise	Self-study: Exercises on derivatives Rev.: Log. differentiation Prev.: Derivatives of trigonometric function	50 100 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)
21 /	Derivatives of inverse trigonometric functions	Lecture and exercise	Self-study: Exercises on derivatives Rev.: Derivatives of inverse trigonometric functions Prev.: Quiz 3	50 50 100
22 /	Quiz 3 Higher order derivatives and their application	Quiz Lecture and exercise	Self-study: l'Hospital's theorem Rev.: Quiz 3 Prev.: Taylor's theorem and expansion	50 100 50
23 /	Taylor's theorem and Maclaurin's expansion	Lecture and exercise Return quiz results Self-check	Self-study: Maclaurin's expansion Rev.: Power series expansion Prev.: Power series expansion Self-check: Self-reflection	50 80 50 20
24 /	Power series expansions of various functions n-th order approximation of function	Lecture and exercise	Self-study: Maclaurin's expansion Rev.: Approximation Prev.: Increase and decrease, and extreme value	50 100 50
25 /	Increase and decrease of functions	Lecture and exercise	Self-study: Increase and decrease Rev.: Increase and decrease Prev.: Derivatives of functions using parameters	50 100 50
26 /	Quiz 4 Derivatives of functions using parameters	Quiz Lecture and exercise	Self-study: Derivative of function using parameter Rev.: Quiz 4 Prev.: Class contents of #16-#26	50 100 50
27 /	Review of the second half	Exercises of #16-#26 Return quiz results Self-check	Rev.: Class contents of #16-#26 Self-check: Self-reflection	180 20
28 /	Final quiz Velocity and acceleration of uniform circular motion [Integrated subject]	Final quiz Lecture and exercise	Exercises of integrated subject Prev.: Integrated subject	150 50
29 /	Velocity and acceleration of uniform circular motion [Integrated subject]	Lecture and exercise	Exercises of integrated subject Self-check: Confirmation of submission, attendance	150 50
30 /	Review of final quiz Self-check	Review of final exam Return final quiz results and reports on integrated subject Self-check Questionnaire	Rev.: Final quiz Self-check: Self-reflection	100 100

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Integrated Math and Sci. for Engineering II		4	521900	Second	Lecture Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	AKIYAMA, Koki		Kanazawa C: 23.403				Make an appointment in class		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Definite and indefinite integrals		Students will be able to: (1) learn definite and indefinite integrals, integration by parts and by substitution. (2) learn equations of motion as an application of integrals. (3) learn line integrals and energy. (4) learn moment of force, center of gravity, and moment of inertia.						
2	Differential equations								
3	Line integrals and energy								
4	Center of gravity								
5	Moment of inertia								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>This is a basic course in integrated mathematics and science for engineering. We will cover the following topics:</p> <ol style="list-style-type: none"> 1. Sum of numerical sequence and its limit, definite and indefinite integrals, integration by parts and by substitution. 2. 1st order differential equations, 2nd order linear differential equations, equations of motion and mechanics. 3. Line integral, work and energy. 4. Area of a shape, multiple integral, volume of a solid, center of gravity, rotational motion and moment of inertia. <p>Students are required to review and preview each class. As a matter of particular emphasis, students are required to attempt the exercises after each class.</p> <p>Extra materials may be distributed if necessary.</p> <p>Students are required to show their solution/calculation procedure logically and clearly in each assignment.</p> <p>Students are expected to utilize the Math. and Science Education Research Center or the office hours of the teacher.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Calculus Volume 1, 2, 3 (OpenStax) (license: CC BY-NC-SA) https://openstax.org/details/books/calculus-volume-1, https://openstax.org/details/books/calculus-volume-2, https://openstax.org/details/books/calculus-volume-3</p> <p>Reference books: Integrated Math and Science for Engineering II, Integrated Math and Science for Engineering I</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Skills and knowledge from Integrated Mathematics and Science for Engineering I.</p> <p>Knowledge of exponential functions, logarithmic functions, and trigonometric functions.</p> <p>Basic calculation skills for differentiation.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Calculate the integrals of various functions and integration by parts and by substitution.							
②	h	Solve separable, 1st order linear and 2nd order homogeneous linear differential equations.							
③	h	Understand the concept of a line integral, and explain the energy of a system.							
④	h	Calculate the areas of shapes, the volumes of a solid, moment of inertia, and the center of gravity of a solid.							
⑤	i	Understand the meanings of fundamental English words for mathematics.							
⑥	i	Be able to demonstrate an understanding of all topics, attend every class, and do the required work.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	64	16	0	0	0	20	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	0	0	0	0	5	25
	Ability to think, reason and create	0	12	8	0	0	0	5	25
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	16	4	0	0	0	5	25
	Attitude and motivation for learning	0	16	4	0	0	0	5	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	✓ Quiz 1 will focus on target ability ①. Quiz 2 will focus on target ability ②.
	②	✓ In the intermediate quiz, students will be evaluated on target abilities ① and ② (20% of the overall evaluation).
	③	✓ Quiz 3 will focus on target ability ③. Quiz 4 will focus on target abilities ④ and ⑤.
	④	✓ In the final quiz, students will be evaluated on target abilities from ③ to ⑤ (20% of the overall evaluation). Each quiz will comprise 6% of the overall evaluation (for a total of 24%).
	⑤	✓
	⑥	
Reports	①	✓ Students will be evaluated on their reports of the integrated subject (16%).
	②	✓ Students are expected to display logical thinking in their assignments.
	③	✓ Students are required to show their solutions/calculation procedures logically and are not allowed to copy from others.
	④	✓ The subject and report deadline will be announced by the teacher.
	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	Students will be evaluated on assignments, exercises, preparation, and review, which together will comprise 20% of the overall evaluation.
	②	Attendance and attitude in class are included in this category.
	③	(Students are expected to utilize the Math. and Science Education Research Center or the office hours of the teacher if they have any questions.)
	④	
	⑤	
	⑥	✓

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
(1) Accurately calculate integrals of basic functions and use integration by substitution and by parts. (2) Fully understand the equations of motion and accurately solve separable, 1st order linear and 2nd order homogeneous linear differential equations. (3) Accurately calculate line integrals, and explain the energy of a system correctly. (4) Accurately calculate areas and volumes using definite integrals and find the center of gravity. (5) Fully understand multiple integrals and accurately calculate the moment of inertia. (6) Demonstrate an understanding of all topics and complete all assignments.	(1) Calculate integrals of basic functions and use integration by substitution and by parts. (2) Understand the equations of motion, and solve separable, 1st order linear and 2nd order homogeneous linear differential equations. (3) Calculate line integrals and explain the energy of a system. (4) Calculate areas and volumes using definite integrals and find the center of gravity. (5) Understand multiple integrals and calculate the moment of inertia. (6) Demonstrate an understanding of all topics and complete all assignments.

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 Sum of a numerical sequence	Instruction Lecture and exercise	Understand the course objectives. Rev.: Sum of a numerical sequence Prev.: Riemann sum	200
2 /	Sum of a numerical sequence and its limit Riemann sum	Lecture and exercise	Rev.: Riemann sum Prev.: Fundamental theorem of calculus	200
3 /	Definite integrals Fundamental theorem of calculus Indefinite integrals of various functions	Lecture and exercise	Self-study: Review of differential calculation Rev.: Exercises on integral calculation Prev.: Indefinite integrals	200
4 /	Indefinite integrals of elementary functions	Lecture and exercise	Self-study: Review of differential calculation Rev.: Exercises on integral calculation Prev.: Review of derivatives of products	200
5 /	Integration by parts	Lecture and exercise	Self-study: Review of integral calculation Rev.: Integration by parts Prev.: Integration by substitution	200
6 /	Integration by substitution	Lecture and exercise	Self-study: Concept of recurrence relation Rev.: Integration by substitution Prev.: Various integration methods	200
7 /	Review of integrals	Lecture and exercise	Rev.: Various integration methods Prev.: Quiz 1	200
8 /	Quiz 1 Differential equations by direct integration	Quiz Lecture and exercise	Self-study: Differential equations by direct integration Rev.: Quiz 1 Prev.: Separable, 1st order differential equations	200
9 /	Separable, 1st order differential equations	Lecture and exercise Result announcement of quiz 1 Self-check	Self-study: Separable differential equations Rev.: Solution of differential equations Prev.: 1st order linear differential equations	200
10 /	1st order linear differential equations	Lecture and exercise	Self-study: Solution curve group Rev.: 1st order linear differential equations Prev.: 2nd order linear differential equations	200

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 /	2nd order homogeneous linear differential equations	Lecture and exercise	Self-study: Solutions of quadratic equations and complex numbers Rev.: 2nd order homogeneous linear differential equations	200
12 /	Review of differential equations	Lecture and exercise	Self-study: Solutions of quadratic equations and complex numbers Rev.: Various differential equations Prev.: Quiz 2	200
13 /	Quiz 2 [Integrated subject] Significant digit Scientific notation Application of differential equations to engineering	Quiz Lecture and exercise	Self-study: Review of integral and differential equations Rev.: Quiz 2 Prev.: Integrated subject	200
14 /	[Integrated subject] Application of differential equations to engineering	Lecture and exercise Result announcement of quiz 2 Self-check	Self-study: Completion of integrated subject Rev.: Class contents of #1-#12	200
15 /	Review of the first half	Exercises on #1-#12 Result announcement of integrated subject Self-check	Rev.: Class contents of #1-#12, Integrated subject	200
16 /	Intermediate quiz Length of a curve and line integral	Intermediate quiz Lecture and exercise	Self-study: Length of a curve and line integral Rev.: Intermediate quiz Self-check; Confirmation of submission, attendance Prev.: Work and power	200
17 /	Work and power Self-check	Lecture and exercise Result announcement of intermediate quiz Self-check of the first half	Self-study: Dot product of two vectors Rev.: Work and power Prev.: Potential energy	200
18 /	Work and kinetic energy Potential energy and the conservation law of mechanical energy	Lecture and exercise	Self-study: Conservation law of mechanical energy Rev.: Work and energy Prev.: Various integral	200
19 /	Review: length of a curve, line integral, kinetic energy, areas of shapes, and the center of gravity of a thin plate	Lecture and exercise	Self-study: Various integral Rev.: Various integral Prev.: Quiz 3	200
20 /	Quiz 3 Moment of force Center of gravity of mass points	Quiz Lecture and exercise	Self-study: Various integral Rev.: Center of gravity of mass points Prev.: Area of a shape enclosed by curves	200

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 /	Areas of shapes The center of gravity of a thin plate	Lecture and exercise Result announcement of quiz 3 Self-check	Self-study: Various integrals Rev.: The center of gravity of a thin plate Prev.: Multiple integral and integrated integral	200
22 /	Multiple integral and integrated integral	Lecture and exercise	Self-study: Various integrals Rev.: Multiple integral and integrated integral Prev.: Volume of a solid and its center of gravity	200
23 /	Volume of a solid and its center of gravity	Lecture and exercise	Self-study: Polar coordinates Rev.: Multiple integral and integrated integral Prev.: Volume of a solid of revolution	200
24 /	Volume of a solid of revolution and its center of gravity	Lecture and exercise	Self-study: a solid of revolution Rev.: Volume of a solid of revolution and its center of gravity Prev.: Moment of inertia	200
25 /	Moment of inertia	Lecture and exercise	Self-study: Infinitesimal element and density Integrated subject Rev.: Moment of inertia Prev.: Various multiple integral	200
26 /	Review of multiple integral [Integrated subject] Moment of inertia	Lecture and exercise	Self-study: Various integral Rev.: Multiple integral Prev.: Quiz 4	200
27 /	Quiz 4 [Integrated subject] Moment of inertia	Lecture and exercise Quiz	Self-study: Integrated subject Rev.: Final quiz	200
28 /	Review of the second half	Exercises on #16-#27 Result announcement of quiz 4 and integrated subject Self-check	Rev.: Class contents of #16-#27, Integrated subject	200
29 /	Final quiz	Final quiz Lecture	Rev.: Final quiz Self-check: Confirmation of submission, attendance	200
30 /	Review of final quiz Self-check	Review of final quiz Result announcement of final quiz Self-check Questionnaire	Rev.: Final quiz	200

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Applied Mathematics I		2	522100	First	Lecture Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	WATANABE, Shuji		Kanazawa C: 23.403				Make an appointment in class		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Vectors and Scalars			Students will learn: (1) vector operations. (2) matrix operations. (3) to solve linear systems using “row reduction.” (4) to represent linear transformations of a plane or a space.					
2	Dot product, Cross product								
3	Operations of Matrices								
4	Row Reduction								
5	Linear Maps								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. This is a basic course in linear algebra. We will cover the following topics:									
1. Vectors 1.1 Vectors and their operations 1.2 Dot products and cross products of vectors 1.3 The equation of a plane or a line 2. Matrices and linear maps 2.1 Matrices and their operations 2.2 Linear systems and row reduction 2.3 Linear maps and linear transformation									
Classes include exercises and quizzes; a final examination will be given at the end of the semester. Daily preparation and review are important. Students are required to complete the designated tasks. Students should prepare reports and study research topics in a planned manner, and strictly avoid plagiarism.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Linear Algebra (license: CC BY-NC-SA) https://www.math.ucdavis.edu/~linear/linear-guest.pdf Reference books: None Reserved books: None									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Basic knowledge of mathematics, especially trigonometric functions.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Understand the concept of vectors and be able to properly perform vector operations.							
②	h	Understand the concept of matrices and be able to properly perform matrix operations.							
③	h	Be able to find solutions to linear systems by using row reduction.							
④	h	Understand the concept of linear transformations and be able to represent them in matrix form.							
⑤	h, i	Understand the contents of the course and be able to complete the required tasks by the announced deadlines.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	60	15	0	0	0	25	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	40	0	0	0	0	15	55
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	0	0	0	0	5
	Attitude and motivation for learning	0	0	0	0	0	0	10	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 four quizzes. Each of the 1 st , 2 nd and 3 rd quiz will comprise 10% of the overall evaluation, and the final quiz will comprise 30% (for a total of 30+30%). The final quiz will be given at the end of the semester to assess the degree of student achievement.	
	②		✓
	③		✓
	④		✓
	⑤		
	⑥		
Reports	①	Several reports will be assigned and will together comprise 10% of the overall evaluation. An integrated subject will comprise 5% of the overall evaluation.	
	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	An assessment of the results of the exercises and homework during the class will comprise 25% of the overall evaluation.	
	②		
	③		
	④		
	⑤		✓
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
(1) Properly perform vector operations and find the equations of planes or lines. (2) Properly perform matrix operations. (3) Solve 'complex' linear systems using row reduction. (4) Understand the concept of linear maps and properly determine representation matrices.	(1) Properly perform vector operations. (2) Properly perform matrix operations. (3) Solve 'fundamental' linear systems using row reduction. (4) Find representation matrices of linear transformations in a plane.

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 Vectors in a plane Addition of vectors, inverse vectors Scalar multiplication of vectors	Lecture and exercises	Understand the objectives of the course Review materials from the previous course Preview for 3-dim vectors	200
2 /	3-dim vectors Operations of 3-dim vectors Dot products of plane vectors	Lecture and exercises	Review materials from the last class Preview for dot products and cross products	200
3 /	Dot products of 3-dim vectors Cross products of 3-dim vectors		Review materials from the last class Preview for equation of lines and the quiz	200
4 /	Quiz (1) Equations of lines in a coordinate plane	Quiz on the contents of #1-#3 Lecture and exercises	Review materials from the last class Preview for equations of planes	200
5 /	Equations of lines in a 3-dim space Equations of planes in a 3-dim space	Lecture and exercises Return quiz results Self-check	Review materials from the last class Preview for matrices	200
6 /	Definition of matrix Matrix multiplication	Lecture and exercises	Review materials from the last class Preview for operations of matrices	200
7 /	Additions and scalar products of matrices Square matrices Inverse matrices of order 2	Lecture and exercises	Review materials from the last class Preview for operations of matrices and the quiz	200
8 /	Quiz (2) Row reduction	Quiz on contents of #4 - #7 Lecture and exercises	Review row reduction Preview for elementary matrices	200
9 /	Examples of row reduction Row reduction and elementary matrices Inverse of matrices of order 3	Lecture and exercises Return quiz results Self-check	Review materials from the last class Preview for linear maps and linear transformations	200
10 /	Definition of linear map and linear transformation Representation matrices of rotations in a plane	Lecture and exercises	Review materials from the last class Preview for manipulations of linear transformations	200

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 /	Compositions of linear transformations Inverse transformations Linear transformations in a 3-dim space	Lecture and exercises	Review materials from the last class Preview for the quiz	200
12 /	Quiz (3) Integrated subject: complex numbers and their operations	Quiz on contents of # 8 - # 11 Lecture and exercises	Review materials from the last class Preview for Euler's formula	200
13 /	Integrated subject: Euler's formula Review for the final quiz	Lecture and exercises Return quiz (3) results Self-check Self-study / Q&A	Preview for the quiz	200
14 /	Final quiz	Quiz on contents of # 1 - # 11 Self-study / Q&A		200
15 /	Final quiz return Self-check	Return final quiz results and reports on integrated subject		200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Applied Mathematics II	2	522200	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	KITAJIMA, Takahiro	Kanazawa C: 23.403			Make an appointment in class				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Determinant	Students will learn: (1) The properties of a determinant and a method of calculate determinants. (2) The properties of cofactors. (3) An explicit formula for the solution of a system of linear equations. (4) The concept of a vector space and a basis. (5) Eigenvectors and eigenvalues.							
2	Cofactor								
3	Cramer's rule								
4	Vector space								
5	Eigenvalue and eigenvector								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. This is a basic course in applied mathematics, continued from "Applied Mathematics I." We will cover the following topics:									
1. Determinants. 1.1 Definition of determinant 1.2 Properties of the determinant and calculation method 1.3 Cofactors and their applications 2. Vector spaces and eigenvalue 2.1 Vector spaces 2.2 Eigenvalues and eigenvectors									
Classes include exercises and quizzes. Daily preparation and review are important. Students are required to complete the designated tasks. Students should prepare reports and study research topics in a planned manner, and strictly avoid plagiarism.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Linear Algebra (David Cherney, Tom Denton, Rohit Thomas and Andrew Waldron) (https://www.math.ucdavis.edu/~linear/linear-guest.pdf) Reference books: Linear Algebra II (KIT Math and Science Academic Foundations Programs)									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Students should understand the concepts introduced in "Applied Mathematics I." It is especially important that the students understand and are able to perform matrix calculations and have a good knowledge of linear transformations.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Understand the properties of determinants and be able to calculate the value of a determinant.							
②	h	Be able to find inverse matrices using cofactors.							
③	h	Understand the concept of vector space and be able to find a basis.							
④	h	Be able to find the eigenvalues and eigenvectors of matrices.							
⑤	i	Understand the meanings of fundamental English words for mathematics.							
⑥	i	Understand the contents of the course and be able to complete the required tasks by the announced deadlines.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	60	15	0	0	0	25	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	35	0	0	0	0	15	50
	Ability to think, reason and create	0	25	10	0	0	0	0	35
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	0	0	0	0	5
	Attitude and motivation for learning	0	0	0	0	0	0	10	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	
	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) Understand the definition and properties of determinants and be able to calculate a determinant. (2) Understand the properties of cofactors and find inverse matrices. (3) Understand the properties of vector spaces and the concept of a basis (4) Find the eigenvalues and eigenvectors of matrices and apply them to diagonalization.	(1) Understand the properties of determinants and be able to calculate a determinant. (2) Find inverse matrices using cofactors. (3) Find the basis of a subspace. (4) Find the eigenvalues and eigenvectors of simple matrices.

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 Definition of determinant Calculation of determinants of orders 2 and 3	Lectures and exercises	Understand the objectives of the course Review materials from the previous course	200
2 /	Fundamental properties of determinants	Lectures and exercises	Review materials from the last class Prepare for next class	200
3 /	Calculation method of determinants based on the properties of determinants	Lectures and exercises	Review materials from the last class Prepare for next class	200
4 /	Cofactor expansion	Lectures and exercises	Review materials from the last class Prepare for next class	200
5 /	Inverse matrices and Cramer's rule	Lectures and exercises	Review materials from the last class Prepare for the quiz	200
6 /	Quiz (1) Vector spaces, subspaces	Quiz on the contents of #1 - #5 Lectures and exercises	Review materials from the last class Prepare for next class	200
7 /	Linear independence, linear dependence of vectors	Lectures and exercises Return quiz results Self-check	Review materials from the last class Prepare for next class	200
8 /	Basis and dimension of a subspace	Lectures and exercises	Review materials from the last class Prepare for next class	200
9 /	Eigenvalues and eigenvectors	Lectures and exercises	Review materials from the last class Prepare for next class	200
10 /	Properties of eigenvalues and eigenvectors	Lectures and exercises	Review materials from the last class Prepare for next class	200

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 /	Diagonalization and its applications	Lectures and exercises	Review materials from the last class Prepare for the quiz	200
12 /	Quiz (2) Integrated subject: standard forms of quadratic curves	Quiz on the contents of #6 - #11 Lectures and exercises	Review materials from the last class Prepare for next class	200
13 /	Classifications of quadratic curves Self-reflection class	Lectures and exercises Return quiz results Self-check	Study for the final quiz	200
14 /	Review Final quiz	Review Quiz on contents of #1 - #11	Study for the final quiz Review of this class	200
15 /	Review the final quiz Self-check	Review of the final quiz Return final quiz results and reports on integrated subject Self-check	Review: Final exam	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Machining	2	540100	First	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	HAYASHI, Michihiro WOHLFARTH, Brandon	Kanazawa C 31.124			Friday 16:00-17:00				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Machining methods	Students will: (1) Learn functions and structures of various machine tools. (2) Learn how to manufacture the parts with the machine tools. (3) Learn how to select an advantageous machining method within the requirements using basic production manufacturing technology.							
2	Machine tools								
3	Manufacturing								
4	Evaluation methods of machine parts								
5	Collaboration								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>This course deal with the basics of fundamental machining methods and understanding the function and structure of various machine tools. It also aims to improve both machining and designing skills for manufacturing specific parts.</p> <p>(1) Outline of manufacturing technology (2) Milling operations (3) Turning operations (4) Drilling operations (5) Grinding operations (6) Measurement methods and quality control (7) Production processes</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Reference books: Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
It is essential to obtain licenses for lathes, milling machines, drilling machines, etc., in technical courses provided by Yumekobo.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	d,g,h	Be able to manufacture designed parts by using machine tools.							
②	g,h	Be able to understand the functions and structures of various machine tools.							
③	a,b,h	Be able to understand basic manufacturing methods.							
④	g,h	Be able to select an advantageous processing method with enough accuracy.							
⑤	d,h	Be able to understand measurement methods to verify the required accuracy.							
⑥	b,d,h	Be able to understand the positioning of machining technology in manufacturing.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		50	30	0	0	10	0	10	100
Comprehensive Strength Criteria	Ability to capture knowledge	20	20	0	0	0	0	0	40
	Ability to think, reason and create	30	10	0	0	5	0	0	45
	Collaboration and leadership	0	0	0	0	5	0	0	5
	Announcement / Expression / Communication	0	0	0	0	0	0	5	5
	Attitude and motivation for learning	0	0	0	0	0	0	5	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	There is an exam at the end of the semester to evaluate the degree of achievement.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Quizzes	①	There are tests when each chapter is finished to evaluate the level of understanding. The quizzes on the following five chapters, 1) Basics of manufacturing, 2) Milling operations, 3) Turning operations, 4) Drilling operations, 5) Grinding operations.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Reports	①		
	②		
	③		
	④		
	⑤		
	⑥		
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	Students will be evaluated on the execution plan of the design and function of the final product.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Portfolios	①		
	②		
	③		
	④		
	⑤		
	⑥		
Others	①	Students will be evaluated their contributions within the class.	
	②		
	③		
	④		✓
	⑤		
	⑥		✓

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
(1) Designed parts can be accurately shaped by using machine tools.	(1) Designed parts can be shaped by using machine tools.
(2) Fully understand the functions and structures of various machine tools.	(2) Understand the functions and structures of various machine tools.
(3) Explain the basic manufacturing methods and their contents correctly.	(3) Explain the basic manufacturing methods and their contents.
(4) An advantageous manufacturing method can be selected to realize the accuracy required on the drawing.	(4) An advantageous manufacturing method can be selected which achieves the required accuracy on the drawing.
(5) Explain the measurement method to accurately verify the accuracy required on the drawing.	(5) Explain the measurement method to verify the required accuracy on the drawing.

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	Lecture and Q&A Self-check	Understand the course objectives Confirm the course schedule	100 100
2 /	Basics of metal cutting	Lecture and Q&A Self-check	Yumekobo safety license	200
3 /	Basics of milling Structure of the milling machine and the milling operation	Lecture and Q&A Self-check	Yumekobo milling machine license	200
4 /	Basics of milling Mechanism of machine center, control of CNC machine tool	Lecture and Q&A Self-check Quiz	Practice of milling machine	200
5 /	Basics of turning Structure of the universal lathes and the turning operation	Lecture and Q&A Self-check	Yumekobo lathe license	200
6 /	Basics of turning Mechanism of turn center, control of CNC lathe	Lecture and Q&A Self-check Quiz	Practice of lathe	200
7 /	Basics of drilling Structure of the drilling presses and the drilling operation	Lecture and Q&A Self-check	Yumekobo drill press license	200
8 /	Basics of drilling Mechanism of drilling	Lecture and Q&A Self-check Quiz	Practice drill press	200
9 /	Basics of grinding Structure of the grinding machine and the grinding operation	Lecture and Q&A Self-check	Yumekobo electric and electronic license	200
10 /	Basics of grinding Mechanism of the grinding process and characteristics of the whetstone	Lecture and Q&A Self-check Quiz	Yumekobo wood working license	200

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 /	Finishing surface accuracy	Lecture and Q&A Self-check	Practice how to use the file, whetstone and grinding wheel	200
12 /	Measurement methods and quality control of workpiece	Lecture and Q&A Self-check	Practice how to use the caliper and micrometer	200
13 /	Design the machine part manufactured by using milling, turning and drilling machine	Lecture and practice Self-check	Finish drawing of the part	200
14 /	Manufacture the part designed in class 13	Lecture and practice Self-check	Finish manufacturing of the part	200
15 /	Report about the part designed and manufactured in class 13 and 14	Lecture and practice Self-check	Preview: Confirm the manufactured part Review: Writing report of the manufactured part	20 180
16 /	Final examination	Descriptive test	Self-evaluation	
17 /	Review	Self-check & Review		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Elective	Robot Mechanics	2	540500	First	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	KUSHIMA, Yoshihiro EVANS, Davis	KanazawaC 31.126 31.124			Tue. 16:50~17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Equation of motion	Continue improving your understanding of Newton's equation of motion as the basis for dynamics, such as the movement of a mass system and rigid body caused by external force or torque. Prepare for subsequent specialized mechanics courses. Acquire the knowledge necessary for the design and analysis of complex machines such as robots.							
2	Moment of inertia								
3	Laws of conservation of momentum and angular momentum								
4	Collision and impulse								
5	Rigid body motion								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>This is a continuation of Engineering Mechanics. For studying mechanics, it is important to solve a variety of mechanical problems independently in addition to understanding the meaning of terms and mathematical formulas.</p> <p>In this course, the following basic mechanics topics are covered:</p> <ol style="list-style-type: none"> 1. Newton's equation of motion 2. Movement of mass point received by the damping force or restoring force 3. Motion of the center of gravity and mass system 4. Collision mechanics 5. Momentum, angular momentum, work, and energy 6. Moment of inertia 7. Friction 8. Rigid body motion 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Engineering Mechanics: Dynamics in SI Units</p> <p>Reference books:</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Be familiar with the mathematics and physics used in basic engineering to solve a number of exercise problems.</p> <p>Acquire the content of this class, which is essential for understanding specialized subjects in the following year.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h, i	Calculate the center of gravity and moment of inertia of objects with simple shapes.							
②	h, i	Explain the motion around the center of gravity of a mass system.							
③	h, i	Explain the collision phenomenon using the law of conservation of momentum.							
④	h, i	Understand the relationship between angular momentum and moment of force.							
⑤	h, i	Explain the motion of a rigid body using the law of conservation of angular momentum.							
⑥	h, i	Explain the dynamic behavior of a rigid body using the equation of motion.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		40	20	40	0	0	0	0	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	0	0
	Attitude and motivation for learning	0	0	20	0	0	0	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	✓	A written exam is given at the end of the term. Understanding the ideas behind the equations of motion is as important as memorizing these equations.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	Several 50-minute quizzes are given to improve comprehension.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Students will prepare and submit reports to demonstrate their understanding of assigned topics and issues.
	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)
<ol style="list-style-type: none"> 1. Calculate the moment of inertia of various machine models from the definition of moment of inertia. 2. Derive equations of motion for various machine models and solve them so as to explain the dynamic behavior of machine models. 3. Analyze various collision phenomena using the momentum conservation law. 4. Explain the dynamic behavior of various machine models using the law of conservation of angular momentum. 5. Explain the dynamic behavior of various machine models using the energy conservation laws. 	<ol style="list-style-type: none"> 1. Calculate the moment of inertia of an object consisting of a combination of basic form. 2. Describe the equations related to motion for the center of gravity of mass systems. 3. Derive the velocity after the centripetal collision of two bodies on a straight line by using the conservation of momentum. 4. Describe the equations related to rotation and plane motion of rigid bodies. 5. Apply the energy conservation laws to explain the motion of a mass subject to gravity or a restoring force.

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	Lecture and Q&A	Understand the objectives of the course Homework	200
2 /	Movement of the center of gravity Total momentum	Lecture and Q&A	Review lecture content and assignments Homework	200
3 /	Conservation law of total momentum Impulse Kinetic energy	Lecture and Q&A	Review lecture content and assignments Homework	200
4 /	Motion of a colliding mass system Restitution coefficient	Lecture and Q&A	Review lecture content and assignments Homework	200
5 /	Review and exercise Intermediate quiz	Review Quiz	Confirm the level of understanding of classes 1-4	200
6 /	Rotational motion Angular momentum	Lecture and Q&A	Review lecture content and assignments Homework	200
7 /	Total angular momentum Conservation law of total angular momentum	Lecture and Q&A	Review lecture content and assignments Homework	200
8 /	Angular momentum of mass system Conservation law of total angular momentum around the center of gravity	Lecture and Q&A	Review lecture content and assignments Homework	200
9 /	Center of gravity of the various shapes Moment of inertia of mass system	Lecture and Q&A	Prepare for test Homework	200
10 /	Review and exercise Intermediate quiz	Review Quiz	Confirm the level of understanding of classes 6-9	200

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 /	Moment of inertia of rigid body Parallel axis theorem and orthogonal axis Theorem	Lecture and Q&A	Review lecture content and assignments Homework	200
12 /	Angular momentum and force moment Degrees of freedom of mass system Degrees of freedom of rigid body	Lecture and Q&A	Review lecture content and assignments Homework	200
13 /	Motion of a rigid body with a fixed axis Physical pendulum and natural period Movement of pulley	Lecture and Q&A	Review lecture content and assignments Homework	200
14 /	Moment of force and equation of rigid body motion Rigid body motion in plane	Lecture and Q&A	Prepare for test Homework	200
15 /	Review and exercise Intermediate quiz	Review Quiz	Confirm the level of understanding of classes 11-14	200
16 /	Final exam	Exam	Check comprehension for the entire course	50
17 /	Review of final exam Self-evaluation	Review Self-evaluation	Review	50

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Elective	Design of Machine Element	2	540200	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	HAYASHI, Michihiro HAN, Justin	KanazawaC 31.124 31.126			Friday 16:00-17:00				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Machine design	Students will: (1) Understand the mechanical elements. (2) Learn the method of machine design. (3) Practice the design of a screw, shaft and bearing.							
2	Mechanical elements								
3	Reliability design								
4	Detailed design								
5	Community cooperation								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. This is a course on the basics of machine design. We will cover the following topics: Basics of design: 1) Procedure of the design, 2) design and processing, 3) reliability design, 4) modular design. Strength and stiffness of materials: 1) Load and material properties, 2) fatigue strength and deformation stress, 3) detailed design and factor of safety. Mechanical elements: 1) Screws, 2) shafts and couplings, 3) bearings. Students should strive to improve their design ability.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Reference books: Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Know how to use a scientific calculator.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b,h	Be able to explain the design process.							
②	b,c,d,g,h	Be able to explain engineering ethics, design for reliability and factor of safety.							
③	b,h	Be able to design for strength.							
④	g,h	Be able to perform calculations necessary for screw, shaft and coupling, and design them.							
⑤	g,h	Be able to perform calculations necessary for bearings and design them.							
⑥	g,h	Be able to choose appropriate part dimensions and shapes with reference to various standards.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		60	20	20	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	15	0	0	0	0	0	45
	Ability to think, reason and create	30	5	10	0	0	0	0	45
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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	✓	Descriptive tests are given on the content of the lectures: 1) Stress and strain, 2) shaft and key, 3) bearings and 4) gears.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	Descriptive tests are given on the content of each section.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥		
Reports	①		Students will be evaluated on a design report for a shaft and bearing.
	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)
(1) Understand design and solutions and explain the design process clearly.	(1) Understand design solutions and explain the design process.
(2) Extensively understand the factor of safety and have the ethical intention of an engineer.	(2) Understand the factor of safety and have the ethical intention of an engineer.
(3) Confidently select the dimensions and shapes of a material based on a standard.	(3) Select the dimensions and shapes of a material based on a standard.
(4) Confidently select screw and shaft diameter based on a calculation.	(4) Select screw and shaft diameters based on a calculation.
(5) Calculate the gear dimensions and the number of teeth using the speed transmission ratio and module.	(5) Calculate the number of gear teeth using the speed transmission ratio and module.
(6) Understand the ethics information taught by a local engineer.	(6) Understand the information provided by a local engineer.

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 design	Lecture and Q&A Self-check	Understanding the course objectives Confirm the course schedule	100 100
2 /	Strength and stiffness of materials: Load, mechanical properties, fatigue strength, stress and deformation	Lecture and Q&A Self-check	Preview: Balance of forces Review: Stress and strain	100 100
3 /	Strength and stiffness of materials: Detailed design, allowable stress and factor of safety	Lecture and Q&A Self-check	Preview: Stress Review: Difference between load and stress	100 100
4 /	Mechanical elements: Shaft Basics of shaft	Lecture and Q&A Self-check	Preview: Strength of materials Review: Types of load	100 100
5 /	Mechanical elements: Shaft Strength of shaft applied tensile and compressive load	Lecture and Q&A Self-check	Preview: Tensile and compressive load Review: Tensile and compressive stress, cross section area	60 140
6 /	Mechanical elements: Shaft Strength of shaft applied bending moment and shear load	Lecture and Q&A Self-check	Preview: Load and moment Review: BMD, SFD	60 140
7 /	Mechanical elements: Shaft Strength of shaft applied combined load	Lecture and Q&A Self-check	Preview: bending and shear stress Review: Design of shaft	100 100
8 /	Mechanical elements: Shaft Stiffness of shaft applied bending and torsional moment.	Lecture and Q&A Self-check	Preview: Stiffness Review: Area moment of inertia	40 160
9 /	Mechanical elements: Screw Basics of screw	Lecture and Q&A Self-check	Preview: Types of screw Review: Metric screw thread	60 140
10 /	Mechanical elements: Screw Strength of screw	Lecture and Q&A Self-check	Preview: Procedure of screw design Review: Procedure of screw design	100 100

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 /	Mechanical elements: Bearing Basics of bearings	Lecture and Q&A Self-check	Preview: Types of bearing Review: Ball and roller bearing	60 140
12 /	Mechanical elements: Bearing Design of bearings	Lecture and Q&A Self-check	Preview: Ball bearing Review: Procedure of ball bearing design	30 170
13 /	Mechanical elements: Gear Basics of gears	Lecture and Q&A Self-check	Preview: Types of gear Review: Spur gears	100 100
14 /	Mechanical elements: Gear Design of gear	Lecture and Q&A Self-check	Preview: Gear reducers Review: Procedure of gear design	50 150
15 /	Integrated learning	Lecture and Q&A Self-check	Preview: Review: Creating the design reports	200
16 /	Final examination	Descriptive test Self-check	Self-evaluation	
17 /	Review	Self-check & Review		

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Elective	Thermodynamics	2	540600	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	NAGANUMA, Kaname	Kanazawa C 44.203			Make an appointment in class				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Heat	Students will: (1) learn basic knowledge for heat, energy (2) learn how to energy conversion, heat to work (3) acquire design skills for energy conversion in mechanical engineering							
2	Property and Unit								
3	Temperature and Heat								
4	Ideal gas								
5	The 1 st law of thermodynamics								
Course Description and Expectations for Students (10.5pt)									
This is a basic course of thermodynamics. We will cover the following materials: 1. Thermal equilibrium and the zeroth law of thermodynamics 2. Heat, specific heat capacity and other basic units 3. The 1st law of thermodynamics 4. Characteristics of ideal gas and real gas 5. Energy and enthalpy 6. Energy conversion Students are expected to understand the meaning of terms and formulas. Students are expected to solve the exercises by yourself. Students should be aware of the teacher's instructions in the class, because the schedules of quizzes, tests and reports may change as the class progresses. Students should not be absent the class, as the handouts may be not recieved.									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Reference books: Thermodynamics, English-Japanese Bilingual Textbook Series of Fundamental Engineering, Masataka Arai and Tomohiko Furuhata, Morikita Publishing, Technical Thermodynamics for Engineers -Basic and Applications-, Achim Schmidt, Springer Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Enough skill of mathematics (especially differential / integral calculations) How to use a calculator.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	g, h, i	Be able to explain the zero law of thermodynamics and apply to a subject							
②	g, h, i	Be able to explain the characteristics of ideal gas and apply to a subject							
③	g, h, i	Be able to explain the characteristics of mixed gas and apply to a subject							
④	g, h, i	Be able to explain the zeroth law of thermodynamics							
⑤	g, h, i	Be able to explain the 1st law of thermodynamics							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	60	40	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	0	0	0	0	0	0
	Ability to think, reason and create	0	40	20	0	0	0	0	0
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	10	0	0	0	0	0
	Attitude and motivation for learning	0	10	10	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 are tests to evaluate the level of understanding.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		
Reports	①	Students will be evaluated on reports.	
	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)
<p>(1) Explain the thermal phenomenon, property, the zero law of thermodynamics, temperature and quantity of heat. Also solve the advanced problems related issue by these understanding.</p> <p>(2) Explain the ideal gas. Also solve the advanced problems related issue by these understanding.</p> <p>(3) Explain the 1st law of thermodynamics. Also solve the advanced problems related issue by these understanding.</p> <p>(4) Explain the real gas. Also solve the advanced problems related issue by these understanding.</p>	<p>(1) Explain the thermal phenomenon, property, the zero law of thermodynamics, temperature and quantity of heat. Also solve the basic problems related issue by these understanding.</p> <p>(2) Explain the ideal gas. Also solve the basic problems related issue by these understanding.</p> <p>(3) Explain the 1st law of thermodynamics. Also solve the basic problems related issue by these understanding.</p> <p>(4) Explain the real gas. Also solve the basic problems related issue by these understanding.</p>

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	Lecture Self-check	Prepare chpt.1.1- 1.4 on the text book. Review	100 100
2 /	Property and units	Lecture and practice Self-check	Prepare chpt.2.1- 2.6 on the text book. Review the class	100 100
3 /	Temperature and quantity of heat	Lecture and practice Self-check	Prepare chpt.3.1- 3.4 on the text book. Review	100 100
4 /	Review	Review and practice Self-check	Review the previous contents Review	100 100
5 /	Ideal gas (1)	Lecture and practice Self-check	Prepare chpt.4.1- 4.2 on the text book. Review	100 100
6 /	Ideal gas (2)	Lecture and practice Self-check	Prepare chpt.4.3- 4.4 on the text book. Review	100 100
7 /	Ideal gas (3)	Lecture and practice Self-check	Prepare chpt.4.5- 4.6 on the text book. Review	100 100
8 /	Review	Review and practice Self-check	Review the previous contents Review	100 100
9 /	Test (1)	Test Self-check	Review the previous contents Review	100 100
10 /	The 1st law of thermodynamics (1)	Lecture and practice Self-check	Prepare chpt.5.1- 5.4 on the text book. Review	100 100

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 /	The 1st law of thermodynamics (2)	Lecture and practice Self-check	Prepare chpt.5.2- 5.5 on the text book. Review	100 100
12 /	Test (2)	Review and practice Self-check	Review the previous contents Review	100 100
13 /	Review(1)	Test and Quizzes Self-check	Review the previous contents Review the test	100 100
14 /	Review(2)	Test and Quizzes Self-check	Review the previous contents Review the test	100 100
15 /	Introduction to Thermo Engineering II	Review Self-check	Review the previous contents	100
29 /				
30 /				

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Elective	Fluid Mechanics	2	540900	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	ITO, Kouhei EVANS, Davis	Kanazawa C 31.124			Wednesday 16:30-17:30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Fluid Properties	In this lecture, you will learn the basics. It plays an important role in hydrodynamic (performance) design. Learn the basic properties of fluids, Bernoulli's theorem, continuity equation, law of momentum, etc. In order to acquire the ability to apply mechanics, students will master application examples through exercises. A good understanding of these is a prerequisite for a mechanical engineer.							
2	Pressure and Total pressure								
3	Bernoulli's principle								
4	Continuity equation								
5	Law of momentum								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.									
<p>■ Class structure As for the structure of the lesson, have them work on their homework after the lecture.</p> <p>■ About the lecture As a general rule, classes are conducted based on textbooks.</p> <p>■ About homework Do homework every week. Work on homework during class and self-study time and submit by next time</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Understanding Fluid Flow (AIMS Library of Mathematical Sciences) Cambridge University Press Reference books: Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
1 Ensure preparation and review. 2 Act and think for yourself and solve problems									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Be able to explain the properties of fluids, especially their compressibility and viscosity.							
②	h	From the depth and pressure, it becomes possible to calculate the total pressure applied to the object.							
③	h	The basic formula of the flow can be derived.							
④	h	Basic fluid calculations can be performed using the continuity equation, Bernoulli's equation, etc.							
⑤	h	Understand the momentum theorem and apply it to actual fluid calculations							
⑥	a	Understand the connection between learning content and community issues, and discuss and learn from each other.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		50	0	50	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	0	20	0	0	0	0	50
	Ability to think, reason and create	20	0	20	0	0	0	0	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	5	0	0	0	0	5
	Attitude and motivation for learning	0	0	5	0	0	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	Comprehensive questions about the scope of study in the semester. The basic difficulty level is the range to be asked in weekly tasks.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Homework will be assigned to confirm understanding of the content of each week's lectures. As a general rule, self-evaluation is possible because the answer is obtained in some way. Basically, have them submitted by the next class. If the submission status is poor, points may be deducted. Homework is self-scoring by looking at the model answers. Then, submit the scoring result again.
	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)
<p>The basic formula of flow can be derived from the basic law. In particular, the problems related to the following matters can be completely solved.</p> <p>(1) Explain the functions such as compressibility and viscosity. (2) The relational expression between depth and pressure can be established and the total pressure can be calculated. (3) The basic formula of the flow can be derived. (4) Basic fluid calculation can be performed using the continuity equation, Bernoulli's equation, etc. (5) Understand the momentum theorem and apply it to actual fluid force calculation and basic design of fluid machinery. (6) You can actively participate in questions and answers and have essential discussions.</p>	<p>The following matters can be explained to some extent from the viewpoint of mechanics. (1) Explain the properties of fluids, especially the functions such as compressibility and viscosity. (2) The relational expression between the depth of the fluid and the pressure can be established, and the total pressure applied to the object can be calculated. (3) The basic equation of flow can be derived. (4) Basic fluid calculation can be performed using the continuity equation, Bernoulli's equation, etc. (5) Understand the momentum theorem and apply it to actual fluid force calculations. (6) Actively participate in the question-and-answer session.</p>

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 /	Explanation of lesson policy, purpose, outline, etc. Learning about the properties of basic fluids.	Lecture Explain Report	Preparation and homework for this week's study	100 100
2 /	Learning about the properties of basic fluids.	Lecture Explain Report	Preparation and homework for this week's study	100 100
3 /	Learn the definitions and properties of static fluid properties (especially pressure)	Lecture Explain Report	Preparation and homework for this week's study	100 100
4 /	Learn about the principles of manometers.	Lecture Explain Report	Preparation and homework for this week's study	100 100
5 /	Learn about buoyancy acting on objects and the principles of hydraulic machines.	Lecture Explain Report	Preparation and homework for this week's study	100 100
6 /	Looking back on the lesson contents so far through exams and exercises	Lecture Explain Report	Preparation and homework for this week's study	100 100
7 /	Learn about the basic properties and expressions of flowing fluids.	Lecture Explain Report	Preparation and homework for this week's study	100 100
8 /	Learn about basic flow equations and equations of motion.	Lecture Explain Report	Preparation and homework for this week's study	100 100
9 /	Learn about the basic equations of flow, especially the continuity equation.	Lecture Explain Report	Preparation and homework for this week's study	100 100
10 /	Learn about Bernoulli's formula. In particular, learn the guidance of Bernoulli's equation and its application in the pipeline.	Lecture Explain Report	Preparation and homework for this week's study	100 100

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 /	Learn Pitot tube, Venturi, Torricelli theorem, etc.	Lecture Explain Report	Preparation and homework for this week's study	100 100
12 /	Learn about the law of momentum. Learn about fluid force and jet propulsion due to collision jets.	Lecture Explain Report	Preparation and homework for this week's study	100 100
13 /	Learn about basic theories such as fluid machinery and their design.	Lecture Explain Report	Preparation and homework for this week's study	100 100
14 /	Review the contents of the latter half of the lecture by practicing (may be changed according to the progress of the lesson, and may be replaced with a special lecture by engineers in the industry).	Lecture Explain Report	Preparation and homework for this week's study	100 100
15 /	Discussion and self-inspection of exercises and tasks	Lecture Explain Report	Preparation and homework for this week's study	100 100
16 /	Final exam			
17 /	Self-reflection on class Self-evaluation			

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Computer Architecture	2	541400	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	FUJISHIMA, Satoshi SONGER, Robert	Kanazawa C 31.118 31.309-2			Tuesday 16.30 – 17.30				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Hardware	In this course, students will learn about elemental technologies of computers in order to understand the mechanisms behind the computers in terms of hardware and software. And students also learn the technologies of single-board computers (e.g. Raspberry Pi and/or Jetson Nano). Knowledge from this course is usable in applying a single-board computer to future system development.							
2	Software								
3	Network								
4	Single-board computer								
5									
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>This course introduces concepts of elemental technologies of computers including how computers work, memory, CPU, programming, storage, networks, OS, and I/O. Students will also learn about the configuration of the Raspberry Pi and/or Jetson, known as edge AI devices, through assignments.</p> <p>Advice on taking this course:</p> <ul style="list-style-type: none"> • Be sure to prepare sufficiently for class and the incoming topics in advance. • Have laptops or notebooks ready for assignment work. • Submit assignments. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: (Handout)</p> <p>Reference books:</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> • Basic knowledge of computers 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	i	Students will be able to understand the hardware of a computer.							
②	i	Students will be able to understand the software of a computer.							
③	i	Students will be able to understand computer networks.							
④	a,h,i	Students will be able to understand the configuration of single-board computers.							
⑤									
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	40	60	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	30	0	0	0	0	50
	Ability to think, reason and create	0	20	0	0	0	0	0	20
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	20	0	0	0	0	20
	Attitude and motivation for learning	0	0	10	0	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	✓ Students will have short quizzes in class to check their understanding of the contents.
	②	✓
	③	✓
	④	✓
	⑤	
	⑥	
Reports	①	✓ Exercises will be done on every topic.
	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)
① Students are able to explain the function of each element of hardware and software in computer architecture.	① Students are able to understand the concept of hardware and software in computer architecture.
② Students are able to explain computer networking correctly.	② Students are able to understand the basics of computer networking.
③ Students are able to perform IP subnetting correctly.	③ Students are able to perform simple network calculations using IP addresses.
④ Students are able to design a specific system using single-board computers.	④ Students are able to design an outline of possible uses for single-board computers.

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 Recapping Computing ● Understanding the overview of what computers do.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
2 /	Numbering system ● Understanding the binary notation and hexadecimal notation.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
3 /	Electric Memory 1 ● Understanding the basics of SRAM and DRAM.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
4 /	Electric Memory 2 ● Understanding the basics of cache and virtual memory.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
5 /	Processors 1 ● Understanding the internal workings of CPUs.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
6 /	Processors 2 ● Understanding the concepts of ARM and SoC.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
7 /	Programming 1 ● Understanding the software development processes.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
8 /	Programming 2 ● Understanding the interpreter language and compiler language.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
9 /	Network 1 ● Understanding the wired and wireless Ethernet.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
10 /	Network 2 ● Understanding the IP routing.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200

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 /	Network 3 ● Understanding the IP subnetting.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
12 /	Operating System ● Understanding the purpose of operating systems.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
13 /	Input/Output ● Understanding the I/O of computers.	Lecture and exercise	Read the given lecture slides and proceed with exercises.	200
14 /	Final exercise ● Understanding the learned contents	Exercise	Proceed with exercises.	200
15 /	Final exercise ● Understanding the learned contents	Exercise	Proceed with exercises.	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Information Mathematics II	2	550200	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	HAYASHI, Ryoko	Yatsukaho C:67.321			Make an appointment in class				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Probability	Probability and statistics are two of the basic knowledge of science and technology. Machine learning has been attracting attention in recent years, and probability and statistics are the basis of machine learning. In this course, students will acquire basic knowledge of probability and statistics, which are essential in science and technology, through classroom lectures and practical training.							
2	Statistics								
3	Data science								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>In this course, you will learn the basic contents of probability and statistics in classroom lectures, and deepen your understanding through computer exercises.</p> <p>You will use Python for most computer exercises, but also use Excel.</p> <p>The order of the learning contents shown in the course schedule is a guide, and the details will be provided by the instructor. At least the following contents will be included:</p> <ul style="list-style-type: none"> ● Basics of Python, basics of Excel ● Probability (dependent and independent, conditional probability, random variable, normal distribution) ● Statistics (representative values, scatter, correlation, statistical hypothesis testing, confidence intervals, Bayesian inference) <p>Other contents may be added at the discretion of the instructor.</p> <p>Some programming experience is desirable, but not required at the beginning of the course. If necessary, study by yourself during the course period to supplement the programming abilities required to acquire this course.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Data Science from Scratch, Second Edition, Joel Crus, O'Reilly, (2019).									
Reference books:									
Reserved books: 「ゼロからはじめるデータサイエンス第2版」, (2020) (in Japanese).									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Knowledge of mathematics is required. Specifically, you should have a general understanding of the basics of inequalities, equations, elementary functions such as polynomial functions and exponential functions, and calculus.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b	Students will learn the application of probability and understand the significance of returning the knowledge to society.							
②	g	Students will learn the basics of how to handle data and understand the possibility of creating new value from data.							
③	h	Students will be able to express their thoughts on statistical information on various events.							
④	i	Students will acquire basic probability and statistical knowledge and experience with a view to developing into data science.							
⑤									
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	60	0	0	0	0	40	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	30	0	0	0	0	10	40
	Ability to think, reason and create	0	30	0	0	0	0	10	40
	Collaboration and leadership	0	0	0	0	0	0	0	0
	Announcement / Expression / Communication	0	0	0	0	0	0	10	10
	Attitude and motivation for learning	0	0	0	0	0	0	10	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	Make sure that you understand the basic knowledge of probability and statistics, and that you can apply it properly.	
	②		✓
	③		✓
	④		✓
	⑤		
	⑥		
Reports	①		
	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	Make sure that you understand the basic knowledge of probability and statistics, and that you can apply it properly. In order to confirm whether you can handle the learning contents properly using a computer, you may need to submit deliverables of computer training.	
	②		✓
	③		✓
	④		✓
	⑤		
	⑥		

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
You can fully understand the learning contents related to probability and statistics and apply them to real-world problems. You can master both Python and Excel in computer training and apply the learning contents to actual data.	You can generally understand the learning contents related to probability and statistics, and apply the basic contents to real-world problems. In computer training, you can apply the learning contents to actual data using at least one of Python and Excel.

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. Explanation of outline of the subject, how to proceed with the lesson, preparation, review, and evaluation method There is a possibility to install Python.	It is basically face-to-face, but it may be done online.	Review (install and check Python, try using Python)	200
2 /	Textbook Chapter 2 (First Half) Python Quick Learning Course	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
3 /	Textbook Chapter 2 (Second Half) Python Quick Learning Course	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
4 /	Textbook Chapter 3 Data Visualization Chapter 4 Linear algebra	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
5 /	Textbook Chapter 5 Statistics	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
6 /	Comprehensive exercise 1	It is basically face-to-face, but it may be done online.	Review (learn the previous parts of the textbook) Review (resolve the problem)	60 140
7 /	Quiz (The actual schedule may change because the quiz will be conducted face-to-face. The instructor will set a sufficient preparation period and inform the details.) Textbook Chapter 6 Probability (first half)	It is basically face-to-face.	Preparation for quiz Review (actually process data on a computer using Python)	140 60
8 /	Textbook Chapter 6 Probability (Second half)	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
9 /	Textbook Chapter 7 Hypothesis and Presumption	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
10 /	Textbook Chapter 8 Gradient descent method	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140

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 Chapter 9 Data Acquisition	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
12 /	Textbook Chapter 10 Data Manipulation	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140
13 /	Comprehensive exercise 2	It is basically face-to-face, but it may be done online.	Review (lean the previous parts of the textbook) Review (resolve the problem)	140 60
14 /	Quiz (The actual schedule may change because the quiz will be conducted face-to-face. The instructor will set a sufficient preparation period and inform the details.) Textbook Chapter 11 Machine Learning	It is basically face-to-face.	Preparation for quiz Review (actually process data on a computer using Python)	140 60
15 /	Quiz answer commentary For future development of probability and statistics, further learning	It is basically face-to-face, but it may be done online.	Preparation (learn the relevant part of the textbook) Review (actually process data on a computer using Python)	60 140

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Computer System A		2	550600	First	Lecture Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	HALIM, Hazwan		31.115				M - T 16.30 – 17.30		
Course Objectives									
Keywords (10.5pt)				Learning Objectives (10.5pt)					
1	Digital number system			Throughout the course, students will learn about the digital number system, operation of basic logic gates, using Karnaugh map to simplify Boolean expression, operation of flip-flops, and design an asynchronous and synchronous counter using flip-flops.					
2	Logic gates								
3	Boolean algebra								
4	Karnaugh map								
5	Sequential circuits								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. In this course, students will be introduced to the basics of digital circuits and systems. The course is prepared to provide students with basic knowledge of digital memory circuits based on combinational logic circuits and sequential circuits. After completing the course, students should be able to explain and discuss the basics principles of digital memory circuits. This course includes lectures, hands-on work, and an individual project.</p> <p>Advice on taking this course:</p> <ul style="list-style-type: none"> • Be prepared for class and study the incoming topics in advance. • Do the assignment and make sure to submit all your work on time. • English will be the main challenge in this course. Make sure you ask for help from the teacher or friends. • The use of an electronics dictionary is strongly encouraged. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: Digital Electronics: A Primer: Introductory Logic Circuit Design (ICP Primers in Electronics and Computer Science)</p> <p>Reference books:</p> <p>Reserved books:</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> • Ability to perform simple algebra operation • Basics knowledge of mathematical operations (add, subtraction, multiplication, and division) 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a,h	Students will be able to perform the conversion of digital number systems.							
②	a,h	Students will be able to write Boolean algebra expressions of the given combinational circuits.							
③	a,h	Students will be able to use the Karnaugh map to simplify Boolean algebra expression.							
④	a,h,i	Students will be able to design circuits from the simplified Boolean algebra expression.							
⑤	a,h	Students will be able to explain the operation of latches and flip-flops.							
⑥	a,h,i	Students will be able to design an Asynchronous counter and a Synchronous counter.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		40	10	20	0	20	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	20	5	10	0	0	0	0	35
	Ability to think, reason and create	20	5	10	0	10	0	0	45
	Collaboration and leadership	0	0	0	0	5	0	0	5
	Announcement / Expression / Communication	0	0	0	0	0	5	0	5
	Attitude and motivation for learning	0	0	0	0	5	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	✓	There is one final exam at the end of the semester. Exam questions will be related to all target ability. To get a good score, students need to be able to answer all questions in the exercises and quizzes correctly. Thus, reviewing and redoing the exercises before the exams is essential.
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Quizzes	①	✓	Several quizzes in each semester will test all target ability. To get a good score, students need to be able to answer all questions in the exercises correctly. <ul style="list-style-type: none"> • If a student is absent on the day, it is the responsibility of the student to reschedule a time with the teacher to sit for the quiz • Rescheduling must be within the same week of the quiz
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Reports	①	✓	Weekly exercises will be handed to the students based on what they have learned in the week. All target ability related question will be included in the exercise. <ul style="list-style-type: none"> • If a student is absent, it is the responsibility of the student to collect the weekly exercise from the teacher. • Completed weekly exercise must be submitted at the end of class or the next day at 5 PM
	②	✓	
	③	✓	
	④	✓	
	⑤	✓	
	⑥	✓	
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①		Students will have at least two projects. The projects will test the student's cognitive and psychomotor skill that relates to what they have learned in the class. <ul style="list-style-type: none"> • If a student is absent on the day, it is the responsibility of the student to collect the project assignment from the teacher. • Project assignments must be submitted on time.
	②		
	③	✓	
	④	✓	
	⑤		
	⑥	✓	
Portfolios	①	✓	All exercises, quizzes, and projects need to be recorded by the student as an evaluation of their learning progress. Students are responsible for keeping all worksheets neatly in a file/folder which will be checked by the teacher at the end of each semester.
	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 and explain the working principle of logic gates with the correct schematic diagram.	Students can understand the concept of the working principle of logic gates correctly.
Students can perform simplification of boolean expression using the Karnaugh map.	Students can perform simplification of boolean expression using the Karnaugh map.
Students can design Asynchronous and Synchronous counter complete with the logic circuits and timing diagram.	Students can design Asynchronous and Synchronous counter correctly.

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 Digital number system - Binary, decimal, hexadecimal - Conversion of the number system Introduction to basic logic gates and universal gates - Learn how to read the MIL symbol and truth table.	- Lecture - Worksheet	- Read textbook - Complete Exercise 1	200
2 /	Quiz 1 - Binary, decimal, and hexadecimal Introduction to Boolean algebra - Boolean expressions and rules of Boolean algebra Introduction to Sum-of-Product (SOP) and Product-of-Sum (POS)	- Lecture - Worksheet	- Read textbook - Complete Exercise 2	200
3 /	Quiz 2 - Boolean algebra and SOP Introduction to Karnaugh map - Learn how to use and fill Karnaugh map	- Quiz - Lecture - Worksheet	- Read textbook - Complete Exercise 3	200
4 /	Simplification of Boolean expression using Karnaugh map - Draw circuits from the simplified expression	- Lecture - Worksheet	- Read textbook - Complete Exercise 4	200
5 /	Quiz 3 - Karnaugh map Project 1 - Design BCD circuit with 7- segment display	- Quiz - Worksheet	- Read textbook - Complete Project 1	200
6 /	Binary addition and arithmetics circuits 1 - Understand half adder and full adder circuits	- Lecture - Worksheet	- Read textbook - Complete Exercise 5	200
7 /	Binary addition and arithmetics circuits 2 - Subtraction using 2` complement method - Understand adder-subtractor circuits	- Lecture - Worksheet	- Read textbook - Complete Exercise 6	200
8 /	Quiz 4 - Karnaugh map - Binary addition and subtraction Decoder and Encoder - Understand decoder and encoder circuits	- Quiz - Lecture - Worksheet	- Read textbook - Complete Exercise 7	200
9 /	Latches and Flip – flops 1 - Introduction to SR, JK, and D flip-flops - Understand the characteristics of a flip-flop with a truth table and timing diagrams.	- Lecture - Worksheet	- Read textbook - Complete Exercise 8	200
10 /	Latches and Flip – flops 2 - Introduction to SR, JK, and D flip-flops - Understand the characteristics of a flip-flop with a truth table and timing diagrams.	- Lecture - Worksheet	- Read textbook - Complete Exercise 9	200

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 5 - Flip-flops Asynchronous counter - Understand the working principle of asynchronous counter - Design asynchronous counter.	- Quiz - Lecture - Worksheet	- Read textbook - Complete Exercise 10	200
12 /	Project 2 - Design an asynchronous counter	- Quiz - Worksheet	- Read textbook - Complete Project 2	200
13 /	Quiz 6 - Asynchronous counter Synchronous counter - Understand the working principle of asynchronous counter	- Quiz - Lecture - Worksheet	- Read textbook - Complete Exercise 12	200
14 /	Synchronous counter - Design asynchronous counter.	- Lecture - Worksheet	- Read textbook - Complete Exercise 13	200
15 /	Revision for the final examination - Digital number system - Combinational circuits - Sequential circuits	- Worksheet	- Review worksheet	200
16 /	Final Examination - Digital number system - Combinational circuits - Sequential circuits	- Examination	- Review worksheet	200
17 /	Returning final examination result	- Lecture	- Review final examination papers	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Computer System B	2	550700	Second	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	INOUE, Keisuke	Kanazawa C:31.308-2			16:30-17:30 (Mon. to Fri)				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Von Neumann computer	In a computer, hardware and software are integrated to perform information processing. The computer architecture defines the division of which processing is realized by hardware and which processing is executed by software. In this course, you will learn the basic configuration and operating principles of computers in order to understand how computers process information.							
2	Instruction set architecture								
3	Pipeline processing								
4	Memory architecture								
5									
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>In this course, you will systematically learn basic knowledge and theory about the basic structure and operating principle of computers.</p> <p>Since it is based on what you learned in computer system basics and logic circuits, please review it carefully.</p> <p>The main topics are shown below:</p> <ol style="list-style-type: none"> 1. Data flow and control flow 2. Instruction set architecture 3. Pipeline processing 4. Cache and virtual memory 5. Embedded processor <p style="margin-left: 20px;">Bring a laptop computer every time to practice using the logic circuit simulator along with the lecture contents.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
<p>Textbooks: None</p> <p>Reference books: None</p> <p>Reserved books: None</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Students must have the ability to express their ideas logically.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e	Can perform the calculation based on the numerical expression format inside the computer system by hand.							
②	e	Can explain the process of computer processing to be executed.							
③	e	Can explain the instruction word structure and address specification method in computer system.							
④	e	Can explain the hierarchical structure of memory system with an example.							
⑤	e	Can explain the characteristics of embedded processors with an example.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	20	20	20	40	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	10	20	0	0	60
	Ability to think, reason and create	0	0	10	0	10	0	0	20
	Collaboration and leadership	0	0	0	5	10	0	0	15
	Announcement / Expression / Communication	0	0	0	5	0	0	0	5
	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		
	②		
	③		
	④		
	⑤		
	⑥		
Quizzes	①	There will be four or three quizzes to check understanding of the content.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Reports	①	There will be a report every three or four months. It will be done individually or in teams on a topic related to the content, chosen by the students.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Presentations	①		
	②		
	③		
	④		
	⑤		
	⑥		
Works	①	Students will have to hand in an assignment once a week.	
	②		✓
	③		✓
	④		✓
	⑤		✓
	⑥		✓
Portfolios	①	Students must submit portfolio every week to check their progress or understanding the content properly.	
	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 recognize the importance of computer architecture in computer science. Students further understand that using it is crucial to develop an efficient system.	Students can recognize the importance of computer architecture to some extent. Students generally understand its definition.

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, introduction, review of logic circuits	Guidance Exercises	The teacher will announce assignments in class.	200
2 /	Data flow and control flow 1 Main memory system	Lecture Exercises	The teacher will announce assignments in class.	200
3 /	Data flow and control flow 2 What is an instruction? 3 decoder 4 sequencer	Lecture Exercises	The teacher will announce assignments in class.	200
4 /	Instruction set architecture 1 instruction format 2 instruction set 3 Addressing 4 Realization of subroutine 5 CISC and RISC	Lecture Exercises	The teacher will announce assignments in class.	200
5 /	Pipeline processing 1 instruction pipeline 2 Pipeline hazard 3 Hazard solution	Lecture Exercises	The teacher will announce assignments in class.	200
6 /	Comprehensive exercise: Learn deeply about commands through exercises.	Lecture Exercises	The teacher will announce assignments in class.	200
7 /	Comprehensive exercise: Exercise using a simple CPU. Review	Lecture Exercises	The teacher will announce assignments in class.	200
8 /	Mid-term quiz Cache and virtual memory 1 Memory hierarchy 2 cache memory	Lecture Exercises	The teacher will announce assignments in class.	200
9 /	Cache and virtual memory 1 Virtual memory 2 Memory access mechanism	Lecture Exercises	The teacher will announce assignments in class.	200
10 /	Embedded processor part 1	Lecture Exercises	The teacher will announce assignments in class.	200

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 /	Embedded processor part 2	Lecture Exercises	The teacher will announce assignments in class.	200
12 /	Final quiz Project Team activity	Lecture Exercises	The teacher will announce assignments in class.	200
13 /	Project Team activity	Lecture Exercises	The teacher will announce assignments in class.	200
14 /	Project Team activity Presentation	Lecture Exercises	The teacher will announce assignments in class.	200
15 /	Final review	Lecture Exercises	The teacher will announce assignments in class.	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Data Structures and Algorithms	2	550900	First	Lecture Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	INOUE, Keisuke	Kanazawa C:31.308-2			16:30-17:30 (Mon. to Fri)				
Course Objectives									
Keywords (10.5pt)		Learning Objectives (10.5pt)							
1	Data structures	Data structures and algorithms are fundamental concepts of computer science. Knowledge of data representations, data structures, and algorithms is essential in the development, use, and maintenance of adaptable, reusable, and efficient software. In this course, students will learn about basic data structures and algorithms that provide a foundation for writing efficient computer programs.							
2	Algorithms								
3	Computers								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>Data structures and algorithms have become essential in computer science to develop efficient programs. These programs are used to create web applications, supercomputing, and AI programs, etc.</p> <p>This course will introduce students to theoretical background using mathematics. Students will be able to apply their programming knowledge through creating original applications.</p> <ul style="list-style-type: none"> · Have laptops ready before class starts · Check Share folder and download all required files · Submit assignments on time · Try various algorithms you are interested in · Do not be afraid to challenge yourself 									
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 must have the ability to express their ideas logically.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	e	Recognize the importance of data structures.							
②	e	Recognize the importance of algorithms.							
③	e	Design original algorithms.							
④	e	Figure out advanced algorithm procedures.							
⑤	e	Understand the sorting algorithms.							
⑥	e	Understand the queue and stack.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio		0	20	20	10	40	10	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	20	10	5	20	0	0	55
	Ability to think, reason and create	0	0	10	0	10	0	0	20
	Collaboration and leadership	0	0	0	0	10	0	0	10
	Announcement / Expression / Communication	0	0	0	5	0	0	0	5
	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	✓
	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 recognize the importance of data structures and algorithms in computer science. Students further understand that using them is crucial to develop efficient software.	Students can recognize the importance of data structures and algorithms to some extent. Students generally understand their definitions.

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 about course outline, review, evaluation Computational complexity	Guidance Exercises	The teacher will announce assignments in class.	200
2 /	Fundamental data structures in algorithms: Array, list, stack, and queue	Lecture Exercises	The teacher will announce assignments in class.	200
3 /	Basic concepts of algorithms: Tree	Lecture Exercises	The teacher will announce assignments in class.	200
4 /	Data search	Lecture Exercises	The teacher will announce assignments in class.	200
5 /	Sorting algorithms 1 Basic algorithms	Lecture Exercises	The teacher will announce assignments in class.	200
6 /	Sorting algorithms 2: Quick sort, merge sort, performance comparison	Lecture Exercises	The teacher will announce assignments in class.	200
7 /	Exercises 1	Lecture Exercises	The teacher will announce assignments in class.	200
8 /	Basic data structures: Graph Quiz	Lecture Exercises	The teacher will announce assignments in class.	200
9 /	Graph search: Depth First Search Width First Search	Lecture Exercises	The teacher will announce assignments in class.	200
10 /	Shortest path problem on graphs	Lecture Exercises	The teacher will announce assignments in class.	200

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 /	Design methods of algorithms	Lecture Exercises	The teacher will announce assignments in class.	200
12 /	Applications of algorithms	Lecture Exercises	The teacher will announce assignments in class.	200
13 /	Exercises 2	Lecture Exercises	The teacher will announce assignments in class.	200
14 /	Future scope in algorithms, Quiz	Lecture Exercises	The teacher will announce assignments in class.	200
15 /	Final review	Lecture Exercises	The teacher will announce assignments in class.	200

2021 Syllabus

Field	Course Name	Credits	Course Code	Semester	Class Style				
Dept. S Specialized Required	Software Engineering	2	551000	Second	Exercises Total				
Target Grade	Instructor	Office	E-mail Address		Office Hours				
4	SONGER, Robert	Kanazawa C: 31.309-2			Mon. 16:00 – 17:00				
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Development Process	Software Engineering is a field that generally includes all the professional activities surrounding the development of software products. It combines engineering, computer science, and management to define the process from concept to realization and beyond. Up to this point, students have taken many courses on implementing software programs, so this class will instead focus on planning, designing, testing, and maintaining software.							
2	Requirements Specification								
3	Software Design								
4	Software Testing								
5	Software Maintenance								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. Having learned about programming in previous classes, students in this course will instead investigate the context and activities surrounding the programming stage of development including requirements specification, design, testing, operation, and maintenance. The requirements and testing topics include a comparative analysis of traditional “waterfall” style of development to the relatively modern “agile” style of development. During the design topic, students will apply what they know about object-oriented concepts and Unified Modeling Language (UML) to analyze software design patterns.</p> <p>Keep your PC closed at the beginning of every class until the teacher tells you to use it. If you miss a class period, talk to the teacher about missing work before the start of the next class. Keep a binder or folder for your papers and notes for English words you do not understand. Make an effort to learn the English in the class. The teacher may consider your assignments late if you have bad behavior or fail to participate during class activities.</p>									
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 must know the basic concepts of Object-Oriented Programming and the Python language. In addition, students must be familiar with UML and the idea of software development processes.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	b	Explain the importance of Software Engineering.							
②	g, h	Understand and explain all the stages of the software development cycle.							
③	e, h	Explain the differences between traditional and agile development processes.							
④	f, h	Create appropriate documentation for each step of software development.							
⑤	i	Identify important software engineering terms in English.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		30	20	50	0	0	0	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	30	0	20	0	0	0	0	50
	Ability to think, reason and create	0	20	10	0	0	0	0	30
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	10	0	0	0	0	10
	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 is one exam at the end of the semester and it will cover all previous topics.
	②	
	③	
	④	
	⑤	
	⑥	
Quizzes	①	There are two quizzes during the semester. Quizzes are short tests with simple answer type questions such as multiple-choice and fill-in-the-blanks. They allow the students to confirm their comprehension of recently covered content.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	Reports are general assignments including handouts, written reports, and documents created during various in-class activities. Reports will be evaluated based on the accuracy of student responses in most cases; otherwise, they will be evaluated based on the amount of effort students put into their creation. In general, if a student submits one of these assignments late, their score will lose 20% of the maximum possible points on the assignment.
	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)
<ul style="list-style-type: none"> ① Describe the context for engineering software ② Practice all stages of the development cycle ③ Choose the best process for a software project ④ Create well-formatted documentation ⑤ Understand the context of important English words ⑥ Lead teammate in completing the goals of a project 	<ul style="list-style-type: none"> ① Understand the advantages of engineering ② Identify activities in the development cycle ③ Recognize traits of agile development ④ Identify documents used at each step of development ⑤ Understand the meaning of important English words ⑥ Help teammates complete the goals of 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 /	Guidance & Intro to Software Processes Students will receive an introduction to the course before investigating the software development process.	Lecture Discussion Exercises	The teacher will announce assignments in class.	200
2 /	Software Development Processes (1) Students will learn about the software development lifecycle and development models.	Lecture Inquiry Exercises	The teacher will announce assignments in class.	200
3 /	Software Development Processes (2) Students will investigate non-technical challenges for professional software developers.	Lecture Exercises	The teacher will announce assignments in class.	200
4 /	Review & Intro to Software Requirements Students will review the context of software engineering and then investigate system requirements specification.	Lecture Exercises	Quiz on Software Engineering Context The teacher will announce assignments in class.	200
5 /	Requirements Specification (1) Students will examine the parts of a System Requirements Specification (SRS) document and the role of Use Cases.	Lecture Exercises	The teacher will announce assignments in class.	200
6 /	Requirements Specification (2) Students will compare Use Cases to User Stories and understand the differences between the two.	Lecture Exercises	The teacher will announce assignments in class.	200
7 /	Requirements Specification: Waterfall vs. Agile Students will investigate the different ways that traditional Waterfall processes and Agile processes handle their requirements.	Lecture Inquiry Exercises	The teacher will announce assignments in class.	200
8 /	Software Design & Unified Modeling Language Students will review the components of Unified Modeling Language (UML) and how it is used in software design.	Lecture Inquiry Exercises	The teacher will announce assignments in class.	200
9 /	Software Design Patterns (1) Students will examine popular software design patterns and discuss their applicability to various software projects.	Lecture Exercises	The teacher will announce assignments in class.	200
10 /	Software Design Patterns (2) Students will consider design patterns for the design of an original software product.	Lecture Exercises	The teacher will announce assignments in class.	200

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 /	Review & Intro to Software Testing Students will review UML and design patterns before exploring two styles of testing software.	Lecture Exercises	Quiz on Software Design The teacher will announce assignments in class.	200
12 /	Software Testing Students will learn about testing at different stages of the development process and then practice unit testing.	Lecture Practice	The teacher will announce assignments in class.	200
13 /	Software Testing: Waterfall vs. Agile Students will learn about Test-Driven Development (TDD) and compare it to traditional testing practices.	Lecture Practice	The teacher will announce assignments in class.	200
14 /	Software Operation & Maintenance Students will investigate activities for operation & maintenance of a software and then learn about end-of-life policies.	Lecture Inquiry	The teacher will announce assignments in class.	200
15 /	Semester Review Students will review class content and complete any unfinished assignments.	Guidance Self-Study	Review for the final exam.	200
16 /	Final Exam			
17 /	Final Exam Review			

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Elective		Programming Lab A		2	550400	First	Exercises Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	FUJISHIMA, Satoshi SONGER, Robert		Kanazawa C 31.118 31.309-2				Mon. 16:00 – 17:00		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Python		The Python language is increasingly important in the modern computing world. In this course, students will learn Object-Oriented Programming (OOP), an essential programming paradigm, in addition to Python data structures such as lists and dictionaries. They will then expand their programming knowledge further with a chance for deeper learning in a programming project that relates to their chosen specialization.						
2	Object-Oriented Programming								
3	Application Development								
4									
5									
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.</p> <p>Course Description: This course builds on knowledge about programming from previous courses and introduces the Python approach to common concepts, such as conditional branches, loops, and functions. After becoming familiar with the Python language, students will then study concepts of Object-Oriented Programming including abstraction, encapsulation, inheritance, and polymorphism. Finally, students will implement one of the following programming projects based on their areas of specialization:</p> <ol style="list-style-type: none"> 1. 2D Game 2. Data Visualization 3. Web Application <p>Expectations for Students: Bring your textbook and PC to class every time, but keep them closed until the teacher instructs you to open them. Take time to look at the assigned chapters in the textbook each week so you can quickly reference the material during in-class exercises. If you are having trouble following in class, schedule a time to meet with the teacher and get some assistance.</p> <p>Required Materials (textbooks, reference books, reserved books) (10.5pt) Textbooks: “Python Crash Course, 2nd Edition” Eric Matthes, No Starch Press Reference books: None Reserved books: None</p>									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<p>Students must be familiar with variables, conditionals, loops, and functions from Computer Skills IIA. They must also be able to use the command line for their OS and discover helpful resources for various programming technologies on the Internet.</p>									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	h	Apply existing knowledge about programming to learn a new programming language.							
②	a, i	Discover useful and relevant resources for learning programming tools & technologies.							
③	d, f	Collaborate with others to investigate new programming skills and techniques.							
④	a, h	Create an application with object-oriented programming in the Python language.							
⑤	e, g	Direct oneself and apply programming skills in the development of a specialized application.							
⑥									
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	20	20	10	20	30	0	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	0	0	0	10	0	20
	Ability to think, reason and create	0	10	10	0	10	10	0	40
	Collaboration and leadership	0	0	10	0	0	0	0	10
	Announcement / Expression / Communication	0	0	0	10	0	0	0	10
	Attitude and motivation for learning	0	0	0	0	10	10	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	✓
	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)
<ul style="list-style-type: none"> ① Create Python programs as easily as any other language. ② Analyze search results for relevance to a given inquiry. ③ Lead an investigation effort to understanding new code. ④ Use multiple OOP concepts to create a program. ⑤ Identify and achieve personal goals for a themed project. 	<ul style="list-style-type: none"> ① Identify correct Python syntax for programming concepts. ② Use appropriate search terms to find online resources. ③ Work smoothly with classmates to investigate source code. ④ Create basic classes to achieve programming goals. ⑤ Complete a themed project related to a specialization.

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, Variables & Data Types Students will receive an introduction to the course and then get Python running with simple programming exercises.	Lecture Discussion Exercises	Review: Textbook Chapters 1 – 2 The teacher will announce assignments in class.	200
2 /	Working with Lists Students will learn about lists in Python and the various ways they can be used.	Lecture Exercises	Preview: Textbook Chapters 3 – 4 The teacher will announce assignments in class.	200
3 /	Conditionals & If Statements Students will examine how Python handles boolean expressions and if statements.	Lecture Exercises	Preview: Textbook Chapter 5 The teacher will announce assignments in class.	200
4 /	Dictionaries Students will investigate dictionaries and how they can be used.	Lecture Exercises	Preview: Textbook Chapter 6 The teacher will announce assignments in class.	200
5 /	Review & Loops Students will take a quiz about lists and dictionaries before they examine how to write loops in Python programs.	Lecture Exercises	Review Quiz Textbook Chapter 7	200
6 /	Functions Students will examine how to write functions in Python programs.	Lecture Exercises	Preview: Textbook Chapter 8 The teacher will announce assignments in class.	200
7 /	Object-Oriented Programming (1) Students will investigate the concept of abstraction in Object-Oriented Programming.	Lecture Exercises	Preview: Textbook Chapter 9 The teacher will announce assignments in class.	200
8 /	Object-Oriented Programming (2) Students will investigate the concept of encapsulation in Object-Oriented Programming.	Lecture Exercises	The teacher will announce assignments in class.	200
9 /	Object-Oriented Programming (3) Students will investigate the concept of inheritance in Object-Oriented Programming.	Lecture Exercises	The teacher will announce assignments in class.	200
10 /	Object-Oriented Programming (4) Students will investigate the concept of polymorphism in Object-Oriented Programming.	Lecture Exercises	The teacher will announce assignments in class.	200

Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Specialized Programming Project (1) Students will take a quiz on OOP concepts before they choose a programming project for their area of specialization.	Guidance Self-Study	Review Quiz Textbook Chapter 10	200
12 /	Specialized Programming Project (2) Students will continue working on a programming project for their chosen specialization.	Guidance Self-Study	The teacher will announce assignments in class.	200
13 /	Specialized Programming Project (3) Students will continue working on a programming project for their chosen specialization.	Guidance Self-Study	The teacher will announce assignments in class.	200
14 /	Specialized Programming Project (4) Students will continue working on a programming project for their chosen specialization.	Guidance Self-Study	The teacher will announce assignments in class.	200
15 /	Specialized Programming Project (5) Students will finish their programming project and demonstrate it with a presentation.	Guidance Self-Study Presentations	The teacher will announce assignments in class.	200

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Elective		Programming Lab B		2	550500	Second	Exercises Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	FUJISHIMA, Satoshi HALIM, Hazwan		Kanazawa C 31.118 31.115				Tuesday 16.30 – 17.30		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Digital Input/Output		Throughout the course, students will learn how to apply the C programming language to perform the basic function of a microcontroller. The basic function includes programming the digital input/output, Interrupts, Analog to Digital conversion (ADC), PWM control, and User input and output devices. Knowledge from this course is usable in designing digital control units for consumer electronics, industrial automation, telecommunication systems, etc.						
2	Interrupts								
3	Analog to Digital Converter (ADC)								
4	Pulse Width Modulation (PWM)								
5	User Input and Output Devices								
Course Description and Expectations for Students (10.5pt)									
This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes.									
This course introduces students to the basis of a microprocessor-based computer hardware system with software that is designed to carry out computation for real-time operations. This course includes lectures, hands-on works, and an individual project. Particularly ARM Cortex M4 processor will be studied and utilized together with various microcontroller peripherals. The architecture and instruction set of microcontrollers will be discussed, and microcontroller peripherals boards will be built and debugged by students. Students will learn through hands-on experience while doing several experiments and projects.									
Advice on taking this course:									
<ul style="list-style-type: none"> • Have laptops or notebooks ready before class starts. • Be sure to prepare sufficiently for class and the incoming topics in advance. • Submit assignments on time. 									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks:									
Reference books:									
Reserved books:									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
<ul style="list-style-type: none"> • Basic knowledge on programming. 									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a,i	Students will be able to explain the structure of microprocessor-based computer hardware systems for real-time operations.							
②	a,h	Students will be able to use the C programming language to program digital input/output and an interrupts condition.							
③	a,h	Students will be able to use the C programming language to perform Analog to Digital conversion.							
④	a,h	Students will be able to use the C programming language for Pulse Width Modulation control (PWM).							
⑤	a,h	Students will be able to use the C programming language to program user input and output devices.							
⑥	a,h,i	Students will be able to design an application that utilizes two or more basic functions together.							
Evaluation Criteria									
Evaluation Method		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Criteria and Ratio									
Total Evaluation Ratio		0	20	20	0	40	10	10	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	10	10	0	15	0	0	35
	Ability to think, reason and create	0	10	10	0	15	0	0	35
	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	10	10	5	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	✓
	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 understand and explain the concept of a microprocessor-based computer hardware system for real-time operations with a correct schematic diagram.	Students are able to understand the concept of a microprocessor-based computer hardware system for real-time operations correctly.
Students are able to perform and improvise the learned basic operation of the microcontroller using C programming.	Students are able to perform the learned basic operation of the microcontroller using the C programming language.
Students are able to design an application that utilizes more than two basic operations together.	Students are able to design an application that utilizes at least two basic operations together.

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 /	i. Guidance ii. Introduction to microprocessor-based computer hardware system. <ul style="list-style-type: none"> • Definition and examples iii. Introduction to C programming language and ARM microprocessor.	Lecture	Read the given lecture slides and textbook.	200
2 /	i. Basic of C programming language. ii. Introduction to Tiva Series Cortex M4 processor and peripherals boards. <ul style="list-style-type: none"> • ARM microprocessor architecture and board setup. 	Lecture and exercise	Read the given lecture slides and textbook.	200
3 /	i. Software Setup <ul style="list-style-type: none"> • Code Composer Studio (CCS) • TivaWare for C Series (Tivaware) • Project creation procedure • Project execution procedure 	Lecture	Read the given lecture slides and textbook.	200
4 /	i. Quiz 1 <ul style="list-style-type: none"> • Basic C programming and ARM microprocessor. ii. Programming of digital input/output.	Lecture and exercise	Read the given lecture slides and textbook.	200
5 /	i. Programming for interrupt condition. ii. Improvisation	Lecture and exercise	Read the given lecture slides and textbook.	200
6 /	i. Quiz 2 <ul style="list-style-type: none"> • Programming for digital input/output and interrupt condition. ii. Programming for Analog to Digital conversion.	Lecture and exercise	Read the given lecture slides and textbook.	200
7 /	i. Programming for Analog to Digital conversion (continue). ii. Improvisation	Lecture and exercise	Read the given lecture slides and textbook.	200
8 /	i. Quiz 3 <ul style="list-style-type: none"> • Programming for Analog to Digital conversion. ii. Programming for Pulse Width Modulation (PWM) control	Lecture and exercise	Read the given lecture slides and textbook.	200
9 /	i. Programming for Pulse Width Modulation (PWM) control (cont.) ii. Improvisation	Lecture and exercise	Read the given lecture slides and textbook.	200
10 /	i. Quiz 4 <ul style="list-style-type: none"> • Programming for Pulse Width Modulation (PWM) control ii. Program the user input and output devices.	Lecture and exercise	Read the given lecture slides and textbook.	200

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 /	i. Program the user input and output devices (cont). ii. Improvisation	Lecture and exercise	Read the given lecture slides and textbook.	200
12 /	i. Quiz 5 <ul style="list-style-type: none"> • Program the user input and output devices ii. Final project <ul style="list-style-type: none"> • Planning • Creation iii. Execution	Exercise	Do the given worksheet.	200
13 /	i. Final project (cont.) <ul style="list-style-type: none"> • Planning • Creation • Execution 	Exercise	Do the given worksheet.	200
14 /	i. Final project evaluations.	Lecture	Confirming the project.	200
15 /	i. Review and summarize.	Lecture	Reviewing the course contents.	200

2021 Syllabus

Field		Course Name		Credits	Course Code	Semester	Class Style		
Dept. S Specialized Required		Introduction to Management		2	551500	First	Lecture/ Total		
Target Grade	Instructor		Office	E-mail Address			Office Hours		
4	TAKECHI, Shoji		Kanazawa C:15.503				Make an appointment in class		
Course Objectives									
Keywords (10.5pt)			Learning Objectives (10.5pt)						
1	Organization		This is an introductory course on basic management concepts, principles and practices to acquire knowledge and skills for solving problems systematically and methodically. Students will be able to learn: <ol style="list-style-type: none"> 1) Management principles and functions, 2) Managing people and communication, and organizations, 3) Managing strategy, changes and innovation. 						
2	Team								
3	Decision Making								
4	Marketing								
5	Innovation								
Course Description and Expectations for Students (10.5pt)									
<p>This course will provide total-time credits. 45 50-minute study times are worth one credit, and students need to have 30 50-minute self-study times for 15 50-minute classes. The course deals with the essential topics of “management” according to the textbook, so students should read it carefully before attending each class. This course consists of lectures and active learning activities such as class discussions, individual/group work and presentations from students. The active learning activities of this course will help students extend their own organizational, communicational, managerial, and leadership skills, and also enable them to face the challenges of successful solving of complex organizational problems.</p> <p>This course will deal with a wide range of concepts and materials of management, which involve broad real-life examples providing insight and meaningful information. Students will be able to apply what they learn on a practical level and to succeed in their future lives.</p> <p>The instructor expects students to be prepared for class, which includes reading the textbook in advance, as well as completing any assignments. Be ready to discuss and ask questions about the course content. The instructor also expects students to focus on the class – cell phones should be put away, and laptops/tablets should be used for course-related work only. Please be respectful toward other students and the instructor.</p>									
Required Materials (textbooks, reference books, reserved books) (10.5pt)									
Textbooks: Colin Combe, (2014). <i>Introduction to Management</i> , Oxford University Press Reference books: None Reserved books: None									
Knowledge/Skills Needed to Take This Course (Prerequisites) (10.5pt)									
Ability to communicate in English, especially reading skills in English. You should preview one chapter (sometimes two chapters), approximately 40 pages of the textbook, in each class. Hopefully, you are a bit curious about what you will be reading, have some questions in your mind and will be able to fit what you read into a bigger context of where it fits into the whole chapter.									
No.	Program Objectives	Target Abilities for Students (9pt)							
①	a,b,i	Students will be able to understand what management is and why it is important.							
②	d,e,f	Students will be able to identify the functions of management in organisations.							
③	b,g	Students will be able to discuss the components of a strategic plan.							
④	b,g	Students will be able to outline the steps of the decision-making process.							
⑤	c,d,e,f	Students will be able to evaluate effective team development and leadership.							
⑥	a,g,h	Students will be able to consider the current business landscape and trends.							
Evaluation Criteria									
Criteria and Ratio		Evaluation Method							
		Exams	Quizzes	Reports	Presentations	Works	Portfolios	Others	Total
Total Evaluation Ratio		0	30	50	0	0	0	20	100
Comprehensive Strength Criteria	Ability to capture knowledge	0	30	0	0	0	0	0	30
	Ability to think, reason and create	0	0	30	0	0	0	0	30
	Collaboration and leadership	0	0	20	0	0	0	0	20
	Announcement / Expression / Communication	0	0	0	0	0	0	10	10
	Attitude and motivation for learning	0	0	0	0	0	0	10	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	✓ Quizzes based on important topics in the textbook will be conducted regularly.
	②	
	③	
	④	
	⑤	
	⑥	
Reports	①	✓ Reports will include either individual or group reflections about some topics, and personal reflection on own learning experience. The format of the report will be announced by the instructor.
	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	✓ Continuous efforts for class work and activities.
	②	
	③	
	④	
	⑤	
	⑥	

Specific Achievement Criteria

Description of Ideal Achievement (10.5pt)	Description of Standard Achievement (10.5pt)
<p>Students can understand what management is and why it is important.</p> <p>Students can identify the functions of management in organisations.</p> <p>Students can discuss the components of a strategic plan.</p> <p>Students can outline the steps of the decision-making process.</p> <p>Students can evaluate effective team development and leadership.</p> <p>Students can consider the current business landscape and trends.</p>	<p>Students can understand what management is.</p> <p>Students can understand some functions of management in organisations.</p> <p>Students can understand some components of a strategic plan.</p> <p>Students can understand the decision-making process.</p> <p>Students can understand the role of team and leadership.</p> <p>Students can survey the current business landscape and trends.</p>

Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
1 /	Class Introduction Introduction to Management	Lecture & Active Learning	Read the syllabus. Preview contents of textbook Chapter 2.	30 200
2 /	Management Theory	Lecture & Active Learning	Preview contents of textbook Chapter 3.	200
3 /	Planning	Lecture & Active Learning	Preview contents of textbook Chapter 4.	200
4 /	Organising	Lecture & Active Learning	Preview contents of textbook Chapter 5.	200
5 /	Leading	Lecture & Active Learning	Preview contents of textbook Chapter 6.	200
6 /	Controlling	Lecture & Active Learning	Preview contents of textbook Chapter 7.	200
7 /	Decision Making	Lecture & Active Learning	Preview contents of textbook Chapters 8&9.	300
8 /	Human Resource Management Motivation and Communications	Lecture & Active Learning	Preview contents of textbook Chapter 10.	200
9 /	Managing Groups and Teams	Lecture & Active Learning	Preview contents of textbook Chapters 11&12.	300
10 /	Organisational Structure & Organisational Culture	Lecture & Active Learning	Preview contents of textbook Chapter 13.	200

Course Schedule

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Class No. Date	Class Content (10pt)	Method (10pt)	Assignments (10pt) (Preview and Review)	Time (Minutes)
11 /	Ethics and Corporate Social Responsibility	Lecture & Active Learning	Preview contents of textbook Chapter 14.	200
12 /	Strategic Management	Lecture & Active Learning	Preview contents of textbook Chapter 15.	200
13 /	Marketing	Lecture & Active Learning	Preview contents of textbook Chapter 16.	200
14 /	Change Management and Innovation	Lecture & Active Learning	Review the textbook	200
15 /	Final Review: Students will review what was learnt in this course, reflect on their future	Active Learning	Review the textbook Review the assignments	100