

函館工業高等専門学校		開講年度	平成29年度 (2017年度)		授業科目	Engineering English II	
科目基礎情報							
科目番号	0434			科目区分	専門 / 必修		
授業形態	授業			単位の種別と単位数	履修単位: 2		
開設学科	物質環境工学科			対象学年	5		
開設期	通年			週時間数	2		
教科書/教材	Gateway to science. Vocabulary and concepts.						
担当教員	デイヴィッド タケ						
到達目標							
1. Being able to understand basic concepts of science in English 2. Being able to analyze various scientific concepts 3. Being able to perform well on standardized tests							
ルーブリック							
	理想的な到達レベルの目安			標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	Being able to understand basic concept of science in English			Being able to somewhat understand basic concept of science in English		Not being able to understand basic concept of science in English	
評価項目2	Being able to analyze various scientific concepts			Being able to analyze some scientific concepts		Not being able to analyze any various scientific concepts	
評価項目3	Being able to perform well on standardized tests			Being able to perform adequately on standardized tests		Not being able to perform well on standardized tests	
学科の到達目標項目との関係							
学習・教育到達目標 (D-1) 学習・教育到達目標 (E-4) 函館高専教育目標 E							
教育方法等							
概要	This course will be divided into two parts. In each class we will first study review basic science concepts using an all English textbook, for about 60 minutes. Then, students will be divided into smaller groups to study for standardized tests such as TOEIC, and TOEFL. The science class will first deal with space and Earth science and then move on to physics. Students are expected to participate actively and prepare in advance each lesson.						
授業の進め方・方法	1. Even if you feel shy, please try and speak as much as possible. 2. You must always bring the textbook and an electronic or paper dictionary. 3. Students cannot use their cellphones in class. 4. Feel free to come to my office to practice English conversation about anything you would 5. If students study well in class, there will be very little homework.						
注意点	JABEE教育到達目標評価： 定期試験80% (D-1: 50%, E-4: 50%) , 課題20% (D-1: 50%, E-4: 50%)						
授業計画							
		週	授業内容			週ごとの到達目標	
前期	1stQ	1週	Introduction : Lesson guidance			To be able to understand the objectives, evaluation methods, and flow of the course.	
		2週	Space and stars			To be able to understand the composition of our galaxy, and the process by which stars and planets are formed.	
		3週	Space and stars			To be able to understand the composition of our galaxy, and the process by which stars and planets are formed.	
		4週	Our Solar System			To be able to understand the role each planet plays in the Solar System, and the connection between the Moon and our seasons	
		5週	Our Solar System			To be able to understand the role each planet plays in the Solar System, and the connection between the Moon and our seasons	
		6週	Space exploration			TO be able to understand what has been accomplished and what is coming next for space exploration	
		7週	Test Review			To review for the first test	
		8週	前期中間試験				
	2ndQ	9週	Test correction			To be able to understand the mistakes made during the test.	
		10週	The atmosphere and the weather			To be able to understand the basic concepts of meteorology. To identify the difference between natural and man-made weather phenomena. To learn about the future of natural resources.	
		11週	The atmosphere and the weather			To be able to understand the basic concepts of meteorology. To identify the difference between natural and man-made weather phenomena. To learn about the future of natural resources.	
		12週	The atmosphere and the weather			To be able to understand the basic concepts of meteorology. To identify the difference between natural and man-made weather phenomena. To learn about the future of natural resources.	
		13週	The atmosphere and the weather			To be able to understand the basic concepts of meteorology. To identify the difference between natural and man-made weather phenomena. To learn about the future of natural resources.	
		14週	Test Review			To be able to review for the test	

後期	3rdQ	15週	前期期末試験	
		16週	Test correction	To be able to understand the mistakes made during the test.
		1週	Matter and its components	To be able to describe what we feel. To understand what is matter, and how to measure it in its various forms. To understand the concepts of gravity, mass and weight.
		2週	Matter and its components	To be able to describe what we feel. To understand what is matter, and how to measure it in its various forms. To understand the concepts of gravity, mass and weight.
		3週	Matter and its components	To be able to describe what we feel. To understand what is matter, and how to measure it in its various forms. To understand the concepts of gravity, mass and weight.
		4週	Atoms, molecules and transformations	To be able to understand the most basic structure of all things in the universe. To understand the evolution of the periodic table of elements
		5週	Atoms, molecules and transformations	To be able to understand the most basic structure of all things in the universe. To understand the evolution of the periodic table of elements
		6週	Atoms, molecules and transformations	To be able to understand the most basic structure of all things in the universe. To understand the evolution of the periodic table of elements
	4thQ	7週	Test Review	To be able to review for the test
		8週	後期中間試験	
		9週	Test correction	To be able to understand the mistakes made during the test.
		10週	Reactions and radiations	To be able to understand the way various elements reacts with each other. To understand the process of radiation, radioactivity and half-life
		11週	Reactions and radiations	To be able to understand the way various elements reacts with each other. To understand the process of radiation, radioactivity and half-life
		12週	Energy: its forms and transformations	To be able to understand the nature of energy and its role in our everydaylife.
		13週	Energy: its forms and transformations	To be able to understand the nature of energy and its role in our everydaylife.
		14週	Final Test preparation	To get ready for the final test by reviewing the year-long class
		15週	学年末試験	
		16週	Summary of the lesson and advice	To be able to understand the progress students made, and how to keep on improving

#### モデルコアカリキュラムの学習内容と到達目標

分類	分野	学習内容	学習内容の到達目標	到達レベル	授業週
基礎的能力	人文・社会科学	英語運用の基礎となる知識	英語のつづりと音との関係を理解できる。	2	
			英語の標準的な発音を聴き、音を模倣しながら発声できる。	2	
			英語の発音記号を見て、発音できる。	2	
			リエゾンなど、語と語の連結による音変化を認識できる。	2	
			語・句・文における基本的な強勢を正しく理解し、音読することができる。	2	
			文における基本的なイントネーションを正しく理解し、音読することができる。	2	
			文における基本的な区切りを理解し、音読することができる。	2	
			中学で既習の1200語程度の語彙を定着させるとともに、2600語程度の語彙を新たに習得する。	2	
			自分の専門に関する基本的な語彙を習得する。	2	
			中学校で既習の文法事項や構文を定着させる。	2	
			高等学校学習指導要領に示されているレベルの文法事項や構文を習得する。	2	
		英語運用能力の基礎固め	日常生活や身近な話題に関して、毎分100語程度の速度ではっきりとした発音で話された内容から必要な情報を聞きとることができる。	2	
			日常生活や身近な話題に関して、自分の意見や感想を基本的な表現を用いて英語で話すことができる。	2	
			説明や物語などの文章を毎分100語程度の速度で聞き手に伝わるように音読ができる。	2	
			平易な英語で書かれた文章を読み、その概要を把握し必要な情報を読み取ることができる。	2	
			日常生活や身近な話題に関して、自分の意見や感想を整理し、100語程度のまとまりのある文章を英語で書くことができる。	2	
			母国以外の言語や文化を理解しようとする姿勢をもち、実際の場面で積極的にコミュニケーションを図ることができる。	2	

				毎分100語程度の速度で平易な物語文などを読み、その概要を把握できる。	2	
				自分や身近なことについて100語程度の簡単な文章を書くことができる。	2	
				毎分120語程度の速度で物語文や説明文などを読み、その概要を把握できる。	2	
				自分や身近なこと及び自分の専門に関する情報や考えについて、200語程度の簡単な文章を書くことができる。	2	

評価割合							
	試験	発表	相互評価	態度	ポートフォリオ	課題	合計
総合評価割合	80	0	0	0	0	20	100
基礎的能力	0	0	0	0	0	0	0
専門的能力	80	0	0	0	0	20	100
分野横断的能力	0	0	0	0	0	0	0