Course Name	English 1				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2403-401	401	Preparatory Year	5	none
Course Track	☐University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

The PYD English Program is a skills-based program that focuses on the four basic language skills of reading, listening, speaking and writing. English 1 focuses on building a **beginner** English vocabulary and grammar.

Each skill is tested at the end of every unit. Students work on sentence and paragraph writing as well as written and email correspondence. Students also prepare for and complete individual speaking assessments.

Students will be able to answer aloud wh- and yes/no questions. Students will start with sentence writing and then advance their writing skills to construct a paragraph. The students will also accurately use beginner level unit grammar and vocabulary from their textbooks and use these in their writing and speaking. Students will be able to extract main ideas and find details from various basic texts and recordings. Students will engage in simple conversations with each other and their teachers to help them use strategies their teachers explain to effectively read and listen to parts of the textbooks; these are measured through the textbook exercises and unit examinations.

English 1 Content and Topics:

Unit Themes	Speaking Assessment	Writing Assessment	Week	Contact Hours
Green Spaces /Unique Homes	Simple -wh, yes/no questions	Construct simple sentences	1	20
Art	Simple -wh, yes/no questions	Construct simple descriptive sentences	1	20
Special Possessions	"how often" questions using adverbs of frequency	5-sentence descriptive paragraph	1	20
Business	-wh, yes/no questions	5-sentence descriptive paragraph	1	20
Phobias	-wh, yes/no questions	5-sentence advice paragraph	1	20
Adventure	-wh, yes/no questions	7-sentence narrative paragraph		20

Family	-wh, yes/no questions	7-sentence comparison paragraph	1	20
Sports	-wh, yes/no questions	7-sentence opinion paragraph	1	20

Upon successful completion of English 1, students will have the necessary skills to begin English 2.

Course Outcomes:

Students of English 1 acquire the concepts of the weekly themes and the unit vocabulary to effectively understand main ideas, compare reading and audio passages, and complete writing and speaking assessments. The following grammar points are completed in English 1:

Simple present and past of *be* and *have*	*There* + *be* in present and past tense	Comparative adjectives
Present and past tense of *be*	Modals *can*, *may*, *might* and *will*	Future tense w/ *be going to*
Simple present tense including questions	Simple past tense including questions	Comparative adjectives
Adverbs of frequency	Present progressive	Use *very*, *too*, and *enough*

Assessment Policy	**Assignment**	15%	**Quiz**	25%	**Lab**	---%	**Project**	---%
	Midterm	20%	**Final**	40 %	**Others**	---%		

Textbook	1. John Beaumont and A. Judith Yancey, "Academic Progress 3 Reading & Writing ," 1st edition, 2019, Pearson Longman, ISBN:1-292-30884-2 2. Polly Merdinger and Laurie Barton, "Academic Progress 3 Listening and Speaking," 1st edition, 2019, Pearson Longman, ISBN: 1-292-30869-6
References	1. **Moodle:** An online learning management system which provides a platform for online testing of all quizzes, unit tests as well as midterm and finals. Furthermore, Moodle acts as an attendance and grade reporting system as well as a communicative platform for forum discussions as well as student logistical updates. https://pydm.kfu.edu.sa/ 2. **My English Lab**: An online learning platform that accompanies the textbook, it provides a review of material covered in the book as well as self study components that help prepare students for the test.

Course Name	English 2				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2403-402	402	Preparatory Year	5	English 1 or attaining benchmark in placement test.
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

The PYD English Program is a skills-based program that focuses on the four basic language skills of reading, listening, speaking and writing. English 2 focuses on building a **lower-intermediate** English vocabulary and grammar.

Students will master the parts of speech such as adverbs of manner; descriptive and possessive adjectives; imperative sentences; modals of possibility; and various verb tenses. Students will recognize and understand content-related vocabulary used in various texts and listening passages. English 2 builds on the foundations of English 1 and focuses more on the previously introduced skills of predicting main ideas, as well as integrating and expanding ideas based on lower-intermediate text and listening passages. Students work on improving upon single paragraph writings that include previous skills taught in English 1. Students will respond with 1-2 sentences to impromptu questions using unit grammar correctly.

English 2 Content and Topics:

Unit Themes	Speaking Assessment	Writing Assessment	Weeks	Contact hours
Work	Impromptu -wh, yes/no questions	10-sentence descriptive paragraph	1	20
Student Life	Impromptu -wh, yes/no questions	10-sentence narrative paragraph	1	20
Money	Impromptu -wh, yes/no questions	10-sentence descriptive paragraph	1	20
Etiquette	Impromptu -wh, yes/no questions	10-sentence descriptive paragraph	1	20
Perception	Impromptu -wh, yes/no questions	10-sentence personal Experience paragraph	1	20
Heroes	Impromptu -wh, yes/no questions	12-sentence narrative paragraph	1	20
Health	Impromptu -wh, yes/no questions	12-sentence narrative paragraph	1	20
Endangered Cultures	Impromptu -wh, yes/no questions	12-sentence opinion paragraph	1	20

Upon successful completion of English 2, students will have the necessary skills to begin English 3.

Course Outcomes:

Students of English 2 acquire the concepts of the weekly themes and the unit vocabulary to effectively understand main ideas, compare reading and audio passages, and complete writing and speaking assessments. The following grammar points are completed in English 2:

Possessive and descriptive adjectives	*Can, could, & would in* polite requests	Modals of necessity
Present simple tense	Linking verbs	Future tense with *will* and *be going to*
Simple past tense including irregular verbs	Present progressive	Modals of possibility
Comparative adjectives	Time clauses in the present tense	
Imperative sentences	Adverbs of manner	
Possessive and descriptive adjectives	*Can, could, & would in* polite requests	Modals of necessity

Assessment Policy	**Assignment**	15 %	**Quiz**	25 %	**Lab**	---%	**Project**	---%
	Midterm	20%	**Final**	40 %	**Others**	--- %		

Textbook	1. John Beaumont and A. Judith Yancey, "Academic Progress 4 Reading & Writing ," 1st edition, 2019, Pearson Longman, ISBN:1-292-30886-9 2. Polly Merdinger and Laurie Barton, "Academic Progress 4 Listening and Speaking," 1st edition, 2019, Pearson Longman, ISBN:1-292-30898-2
References	1- **Moodle:** An online learning management system which provides a platform for online testing of all quizzes, unit tests as well as midterm and finals. Furthermore, Moodle acts as an attendance and grade reporting system as well as a communicative platform for forum discussions as well as student logistical updates. https://pydm.kfu.edu.sa/ 2- **My English Lab**: An online learning platform that accompanies the textbook, it provides a review of material covered in the book as well as self study components that help prepare students for the test.

Course Name	English 3				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2403-403	403	Preparatory Year	5	English 2
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

English 3 focuses on building an **intermediate** English vocabulary and grammar.

English 3 builds on the foundations of English 2 and focuses more on the previously introduced skills of expressing opinions and revising and editing written material.

Students will master intermediate grammar, consisting of, but not limited to, comparative adverbs; modals of ability, advice, necessity, and future possibility; simple past/past progressive/present perfect verb tenses; infinitives of purpose. Students will build their cache of vocabulary and use it to answer and discuss comprehension questions. Students will extract a wider range of concepts from listening passages by inferring things such as meaning, emotions, contrast, and factual information from context. Students begin using pre-writing strategies that help them write well-developed paragraphs that include intermediate vocabulary and grammar usage. Students will also expand their speaking skills to give 30-45 second responses to impromptu questions derived from that week's unit theme.

English 3 Content and Topics:

Unit Themes	Speaking Assessment	Writing Assessment	Weeks	Contact hours
Extreme Sports	20 to 35 seconds impromptu topic response	13-sentence narrative paragraph	1	20
Fraud	20 to 35 seconds impromptu topic response	13-sentence narrative paragraph	1	20
Space	25 to 40 seconds impromptu topic response	13-sentence opinion paragraph	1	20
Language	25 to 40 seconds impromptu topic response	13-sentence contrastive paragraph	1	20
Careers	25 to 40 seconds impromptu topic response	13-sentence opinion paragraph	1	20
Tourism	30 to 45 seconds impromptu topic response	14-sentence opinion paragraph	1	20
Plastic Surgery / Resolution & Justice	30 to 45 seconds impromptu topic responses	14-sentence opinion paragraph	1	20

Climate Change	30 to 45 seconds impromptu topic responses	14-sentence opinion paragraph	1	20

Upon successful completion of English 3, students will have the necessary skills to begin English 4.

Course Outcomes:

Students of English 3 acquire the concepts of the weekly themes and the unit vocabulary to effectively understand main ideas, compare reading and audio passages, and complete writing and speaking assessments. The following grammar points are completed in English 3:

Modals of ability	Present perfect tense	*Because* and *even though*
Reflexive and reciprocal pronouns	Comparative adverbs	Predictions with *will* and *if*
Simple past and past progressive tenses	Superlative adjectives	Adverb clauses of concession
Modals of advice	Future time clauses	*And, but, so,* and *because*
Infinitives of purpose	Gerunds	Future modals
		Modals of necessity

Assessment Policy	**Assignment**	15 %	**Quiz**	25 %	**Lab**	---%	**Project**	---%
	Midterm	20%	**Final**	40 %	**Others**	--- %		

Textbook	1. John Beaumont and A. Judith Yancey, "Academic Progress 5 Reading & Writing ," 1st edition, 2019, Pearson Longman, ISBN:1-292-30886-9 2. Polly Merdinger and Laurie Barton, "Academic Progress 5 Listening and Speaking," 1st edition, 2019, Pearson Longman, ISBN:1-292-30898-2
References	1. **Moodle:** An online learning management system which provides a platform for online testing of all quizzes, unit tests as well as midterm and finals. Furthermore, Moodle acts as an attendance and grade reporting system as well as a communicative platform for forum discussions as well as student logistical updates. https://pydm.kfu.edu.sa/ 2. **My English Lab**: An online learning platform that accompanies the textbook, it provides a review of material covered in the book as well as self study components that help prepare students for the test.

Course Name	English 4				
Course Information	Course Code	Course No.	Course Level	Credit Hours	Prerequisite(s)
	2403-404	404	Preparatory Year	5	English 3
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description: English 4 focuses on building an **upper-intermediate** English vocabulary and grammar. It is the final PYD EP course required to graduate from the program, and therefore the most challenging.

Students build on the grammar from English 3 and focus on gerunds and infinitives, present and past unreal conditionals, adjective clauses, reported speech, and phrasal verbs. Students also learn the passive voice and the past perfect and present perfect progressive verb tenses. Students will be able to extract main ideas and find details from upper-intermediate authentic texts and recordings. Students work on paragraph writing that includes previous skills and hones their ability to fully support an opinion. Students also expand on speaking skills by giving extensive personal experience in impromptu topic answers of at least 40 seconds in length.

English 4 Content and Topics:

Unit Themes	Speaking Assessment	Writing Assignment	Weeks
Genius	35 to 50 seconds impromptu topic response	15-sentence opinion paragraph	1
Overcoming Obstacles	35 to 50 seconds impromptu topic response	15-sentence opinion paragraph	1
Medical Decisions	40 to 60 seconds impromptu topic response	15-sentence opinion paragraph	1
Animal Intelligence	40 to 60 seconds impromptu topic response	15-sentence opinion paragraph	1
Philanthropy	40 to 60 seconds impromptu topic response	15-sentence opinion paragraph	1
Water Pollution and Conservation	40 to 60 seconds impromptu topic response	20-sentence opinion paragraph	1
Video Games and Mobile Phones	40 to 60 seconds impromptu topic response	20-sentence opinion paragraph	1

Upon successful completion of English 4, students will have completed the English requirements for the PYD.

Course Outcomes:

Students of English 4 acquire the concepts of the weekly themes and the unit vocabulary to effectively understand main ideas, compare reading and audio passages, and complete writing and speaking assessments. The following grammar points are completed in English 4:

Past perfect	Reported speech	Causal verbs
Passive and active voice	Comparing past forms	Subordinators and prepositional phrases
Gerunds and infinitives	Concessions	Phrasal verbs
Past and present unreal conditions	Relative pronouns in adjective clauses	Contrasting the simple past, present perfect and present perfect continuous

Assessment Policy	**Assignment**	15 %	**Quiz**	25 %	**Lab**	---%	**Project**	---%
	Midterm	20%	**Final**	40 %	**Others**	--- %		

Textbook	1. John Beaumont and A. Judith Yancey, "Academic Progress 6 Reading & Writing ," 1st edition, 2019, Pearson Longman, ISBN:1-292-30886-9 2. Polly Merdinger and Laurie Barton, "Academic Progress 6 Listening and Speaking," 1st edition, 2019, Pearson Longman, ISBN:1-292-30886-9
References	1. **Moodle:** An online learning management system which provides a platform for online testing of all quizzes, unit tests as well as midterm and finals. Furthermore, Moodle acts as an attendance and grade reporting system as well as a communicative platform for forum discussions as well as student logistical updates. https://pydm.kfu.edu.sa/ 2. **My English Lab**: An online learning platform that accompanies the textbook, it provides a review of material covered in the book as well as self study components that help prepare students for the test.

Course Name	Basic Science 1				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417-304	304	Preparatory Year	2	-
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

The main purpose of this course is to provide help to the medical students in the preparatory year to understand the basic concepts of the subjects of cytology, anatomy, physiology, immunology, biochemistry and genetics. The course presents foundations of these subjects and describes them in simple details and language to make them understandable to students. This course will focus on naming and describing the structure and function of cells. Build a good foundation in anatomy, physiology and immunology. Describe the circulatory, respiratory system, urinary system and body defenses. This course will also focus on biological macromolecules (proteins, carbohydrates, lipids, and nucleic acids), their structure and function. Recognize the fundamental concepts of cellular reproduction. Introduce students to the core concepts of what genes are and how they work, enabling students to appreciate the transfer of genetic information in living cells, describe the basic aspects of the flow of genetic information from DNA to proteins. Recognize how the hereditary information in DNA controls what an organism looks like and how it works and recognize how to identify and classify mutations in DNA. Understanding the principal concepts and terminology of these subjects will help the students to understand these and other medical subjects when delivered in more details in the advanced classes in their designated colleges.

Course Outcomes:

- Explain the concepts of organic compounds.
- Provide an overview of cytology, and cellular metabolism.
- Recognize the fundamental concepts of genetics, and cellular reproduction.
- Recognize the fundamental concept of DNA structure and function.
- Recognize the basic concepts of animal structure and function.
- Recognize the fundamental concept of circulation and respiration.
- Explain the basic concepts of defense system.

Assessment Policy	**Assignment**	10%	**Quiz**	15%	**Lab (Virtual lab)**		**Project**	5%
	Midterm	30%	**Final**	40%	**Others**	--%		
Textbook	Campbell Essential Biology with Physiology, A custom edition for: Basic Sciences Department, Preparatory Year Deanship, King Faisal University (Custom edition + Access code) ISBN: 9781839613739							
References	Simon. Reece. Dickey, "Campbell Essential Biology with Physiology", Pearson, 2019-sixth edition							

Course Name	Basic Science 2				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417-305	305	Preparatory Year	2	_
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

Basic Science 2 introduces basic concepts and key ideas while providing opportunities to learn reasoning skills and a new way of thinking about our environment. No prior work in science is assumed. It is substantial introduction to the fundamental behavior of matter and energy.

Our primary objective in this course is to build a good foundation in chemical knowledge that allows us to make qualitative and quantitative inquiries into topics in natural science. We will also demonstrate how these topics can be applied to the scientific method and how observation and experimentation leads us to the development of scientific theories.

Course Outcomes:

- Recognize subatomic particles and the atomic structure.
- Explain how atoms bond and chemicals react
- Review basic concepts in organic and medicinal chemistry
- Recognize how molecules mix.
- Differentiate between acids and bases and their properties.
- Solve simple chemical calculations.

Assessment Policy	**Assignment**	10%	**Quiz**	15%	**Lab (Virtual lab)**	---%	**Project**	10%
	Midterm	25%	**Final**	40%	**Others**	---%		
Textbook	Conceptual Chemistry, 6th edition. By: John Suchocki. Pearson. 2018, A custom edition for: Basic Sciences Department, Preparatory Year Deanship, King Faisal University (Custom edition + Access code) ISBN: 9780136054535							
References	1. Chemistry, 12th edition. By: R. Chang. McGraw-Hill. 2015. 2. Conceptual Physical Science Explorations, 6th edition. By: Hewitt, Suchocki, and Hewitt. Pearson Addison- Wesley, San Francisco, CA. 2016							

Course Name	Biostatistics				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417-303	303	Preparatory Year	2	-
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

Types of data, Sampling method, Types of studies, Frequency distribution, Visualizing data, Measures of Centre, Measure of variation, Measure of relative standing, Scientific calculator, Fundamentals of probabilities, addition rule in probability, Multiplication rule in probability, The Standard Normal Distribution, Applications of Normal Distributions, Correlation, Regression, Introduction to SPSS Program.

Course Outcomes:

Students will be exposed to the most basic topics in STATISTICS and they are expected to:

- Appreciate the role of biostatistics in health and health related fields.
- Define and identify the different levels of measurement, types and characteristics of different variables.
- Enumerate, define and construct different types of tables to summarize data with meaningful interpretation, abstract reasoning and efficient presentation of data at hand.
- Enumerate, indicate and construct the different types of graphical presentation for data display and reporting with proper interpretation.
- Enumerate, appreciate, and appraise the different measures of central tendency to describe, detecting normality and data examination and presentation.
- Apply basic rules of probabilities.
- Enumerate, employ, appraise the different measures of dispersion to describe, examine, present and interpret the different data sets regarding, normality, dispersion and deviation.
- Analyze a collection of paired sample data using correlation and regression.

Identify the normal distribution and examining the data for normality.

- Find measure of Centre, measure of variation and graph data using scientific calculator and MS Excel software

Assessment Policy	**Assignment**	10%	**Quiz**	10%	**Lab**	5%	**Project**	5%
	Midterm	30%	**Final**	40%	**Others**	0		
Textbook	Biostatistics for the biological and health studies, 2020-Custom edition for KFU, Pearson.							

References	1. Biostatistics for the biological and health sciences, M. M. Triola, M. F. Triola, and Jason Roy, 2nd Edition, Pearson 2. 2. Biostatistics: A Foundation for Analysis in the Health Sciences, 11th Edition, By Wayne W. Daniel, Chad L. Cross, Wiley. 3. Principles of Biostatistics, 2nd Edition, By Marcello Pagano, Kimberlee Gauvreau, Chapman and Hall/CRC. 4. Schaum's Outline of Elements of Statistics I: Descriptive Statistics and Probability, First Edition, By Stephen Bernstein, Ruth Bernstein, McGraw Hill.

Course Name	Mathematics-1				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417 – 301	301	Preparatory Year	2	_
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:
Mathematics-1 is a course in Basic Mathematics offered by the Department of Basic Sciences. It is a 2credit-hour course conducted through 4 hours along 8 weeks. This course provides an intensive study on Basic Mathematics, which is fundamental to the study of related technical subjects. Emphasis is placed on many topics; explicitly: Decimals and Percentage, Algebra and Equations, Lines and Inequalities, Functions and Graphs, Exponential and Logarithmic Functions.

Course Outcomes:

- Compute percentage and apply the operations on decimals and fractions.
- Recognise the real numbers and their properties.
- Apply operations on polynomials and factorise the polynomials.
- Solve linear, quadratic, and absolute value equations.
- Solve linear inequalities.
- Find equations of, and graphing, lines and circles.
- Recognize functions, including composition of functions and inverse functions, and their application as mathematical models.
- Use the properties of exponential and logarithmic functions and their application to solve equations.

Assessment Policy	**Assignment**	10%	**Quiz**	15%	**Lab**	---%	**Project**	5%
	Midterm	30%	**Final**	40%	**Others**	---%		
Textbook	Fundamentals of Mathematics Pearson, 2019-Custom edition for KFU							
References	1. Mathematics with Applications In the Management, Natural and Social Sciences, Thomas W. Hungerford, John P. Holcomb, Margeret L. Lial 2017 • Pearson 2. 2. College Algebra and Trigonometry, Global Edition, 6/E Margaret L. Lial, John Hornsby, David I. Schneider, Callie Daniels 2017 • Pearson							

Course Name	Mathematics (2)				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417 – 302	302	Preparatory Year	2	Mathematics (1)
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

Mathematics (2) is a course offered by the Department of Basic Sciences. It is a 2-credit-hour course conducted through 4 hours along 8 weeks. This course provides an intensive study on some topics that are useful for students. Emphasis is placed on many topics; specifically: Matrices, Trigonometry, and Introduction to Calculus (Limits, Continuity, Differentiation, and Integration).

Course Outcomes:

- Evaluate trigonometric and inverse trigonometric functions, and graph trigonometric functions in rectangular form.
- Solve trigonometric equations and use them to solve trigonometric problems.
- Use trigonometric identities in simplifying and solving equations.
- Apply the basic operations on matrices and compute product of matrices.
- Find determinant and inverse of a matrix and use it to solve systems of equations
- Evaluate various limit problems both algebraically and graphically, and evaluate limits at infinity and infinite limits.
- Check the continuity of various types of functions,
- Differentiate various types of functions using the differentiation rules.
- Find antiderivative of a function, and integrate various functions using the various integration methods.

Assessment Policy	**Assignment**	15%	**Quiz**	15%	**Lab**	0	**Project**	5%
	Midterm	25%	**Final**	40%	**Others**	0		
Textbook	Fundamentals of Mathematics Pearson, 2019-Custom edition for KFU							
References	1- Mathematics with Applications In the Management, Natural and Social Sciences, Thomas W. Hungerford, John P. Holcomb, Margeret L. Lial 2017 • Pearson 2- College Algebra and Trigonometry, Global Edition, 6/E Margaret L. Lial, John Hornsby, David I. Schneider, Callie Daniels 2017 • Pearson							

Course Name	Basic Science Nonmedical				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2417-306	306	Preparatory Year	2	–
Course Track	☐ University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

Basic Science Non-medical introduces basic concepts and key ideas while providing opportunities to learn reasoning skills and a new way of thinking about our environment. This course is to provide help to students in the preparatory year to understand the basic concepts of the subjects of Chemistry, Biology and Physics. This course will focus on atoms, periodic properties, chemical bonds, chemical reactions, organic chemistry. The students will recognize motion, and laws of motion, momentum, work, potential energy and kinetic energy, energy conservation, light, electricity and electromagnetic induction.

This course will also focus on biological science, including an introduction to the disciplines of biochemistry, cell organization and genetics. Students will develop a basic understanding of the biological macromolecules (proteins, carbohydrates, lipids, and nucleic acids) there structure and function. Naming and describing the structure and function of cells. Introduce students to the core concepts of what genes are and how they work, enabling students to appreciate the transfer of genetic information in living cells.

Course Outcomes:

- Define and explain minor concepts in the biological sciences.
- Recognize the relationship between structure and function at level of cellular and molecular basis.
- Recall basic concepts of chemistry.
- Describe and recognize the atomic structure in addition to molecular structure and reactivity of matter.
- Reproduce the basic laws and principle in the physics, which include motion, energy and electricity.
- Differentiate between different phenomena of light physics in life. Recognize different aspects of light.
- Conceptual problem solving skill, numerical skill and communications skill.
- Developing ability to think critically and analytically.
- Demonstrate different problems and situations in basic sciences.
- Illustrate the different biological, physical and chemical phenomena and their applications in the real life.

Assessment Policy	**Assignment**	15 %	**Quiz**	45 %	**Lab (Virtual lab)**		**Project**	10 %
	Midterm	----%	**Final**	30 %	**Others**	--- %		
Textbook	Natural Science - (Custom edition + Access code) A custom edition for: BasicSciences Department, Preparatory Year Deanship, King Faisal University ISBN: 9781839619342							
References	1- Physical Science, 9th edition. By: Bill W. Tillery. McGraw-Hill. 2012. 2- Campbell Essential Biology with physiology, Simon. Reece. Dickey, Pearson, 2016-fifth edition ISBN: 10 1-292-10236-5 & ISBN: 13 978-1-29210236-8							

Course Name	University Life Skills				
Course Information	Course Code	Course No.	Course Level	Credit Hours	Prerequisite(s)
	2410-305	305	Preparatory Year	1	–
Course Track	☐University Requirement ☒ College Requirement ☐ Specialized Core ☐ Electives				

Course Description:

The course provides students with the necessary skills during their stay at the university to reach high levels of university adaptation, the ability to study and to cope with the requirements of the university and community life.

Course Outcomes:

- Identify the concepts of collegiate life including studying, decision-making, preparing for exams, and solving problems to help him/her adapt to university.
- Implement right strategies of studying, doing research and managing time.
- Follow scientific steps to solve problems and make decisions.
- Build good report with his/her instructors and colleagues.
- Recognize psychological problems and the solutions to control them.
- Appreciate the value of teamwork.

Assessment Policy	Assignment	---%	Quiz	--%	Lab	---%	Project	20 %
	Midterm	30 %	Final	40 %	Others	10 %		
Textbook	This course consists of a number of training courses presented to students in the form of PowerPoint Presentations, and these presentations are uploaded on the students' university websites.							
References	1. مهارات الحياة الجامعية: الاتصال-التعلم-التفكير-البحث: ذوقان عبيدات وسهيلة أبو السميد الطبعة: الأولى هـ عمان: دار الفكر. 1433 2. الإمارات-دار الكتاب الجامعي. 2015مهارات الحياة الجامعية: محمد جهاد جمل الطبعة الأولى 3. التكيف الاجتماعي والتحصيل الدراسي: دراسة ميدانية في البيئة الجامعية مصلح احمد الصالح الرياض: دار الفيصل الثقافية الطبعة الأولى: 1996 . 4. 2001المهارات الدراسية: محمد علي الخولي عمان: مكتبة دار الفلاح للنشر والتوزيع. الطبعة: الأولى . 5. استراتيجيات أداء الاختبارات: فرانكلين بيترسون جودي تيركل ترجمة: د. خالد بن عبد العزيز الدامغ جامعة الملك سعود هـ1432							

Course Name	Terminologies and Skills				
Course Information	**Course Code**	**Course No.**	**Course Level**	**Credit Hours**	**Prerequisite(s)**
	2410	306	Preparatory Year	1	–
Course Track	☐University Requirement ☒College Requirement ☐Specialized Core ☐Electives				

Course Description:

In this course some topics and skills are selected by colleges to be discussed with the students in order to expand their knowledge in the area of interest.

Course Outcomes:

- Recall fundamental concepts, principals and terminologies.
- Recognize the basic techniques and pivotal tools in the field.
- Apply the appropriate methods in problem solving.
- Assume responsibility to advance their own learning and understanding in with a degree of independence and responsibility.
- Act upon to engage in the integration of preparatory year knowledge to undergraduate disciplines and innovations that facilitates self-empowerment and success in higher studies.

Assessment Policy	**Assignment**	30%	**Quiz**	---%	**Lab**	---%	**Project**	--- %
	Midterm	---%	**Final**	--- %	**Others**	70%		
Textbook	Books, Reviews, Journals.							
References