

HEALTH TRACK											
COURSE		TITLE	LT	LB	CR	COURSE		TITLE	LT	LB	CR
ENGL	001	Preparatory English I	15	5	8	ENGL	002	Preparatory English II	15	5	8
BIOL	001	Biology I	2	0	2	BIOL	002	Biology II	2	0	2
CHEM	001	Chemistry I	2	0	2	MATH	005	Basic Mathematics	2	0	2
PHYS	001	Basics of Medical Physics	2	0	2	CHEM	002	Chemistry II	2	0	2
PYP	003	University Study Skills	0	2	1	PE	001	Preparatory Health & Physical Education I	0	2	1
						PYP	002	Preparatory Computer Science	0	2	1
			21	7	15				21	9	16
TOTAL CREDIT HOURS: 31											

* For Female College PE 001 will be replaced by PE 003

COURSE DESCRIPTION:

BIOL 001 – Biology I (2-0-2)

BIOL 002 – Biology II (2-0-2)

This course is designed to introduce students to the major discipline of Biology. It begins with an introduction to the properties of the living and non- living things. The course then covers aspects of cell structures, cell membrane, transport processes, in and out of the cells as well as cell division and gene to genesis. Some organs and systems of humans will be introduced to students. Basic concepts of genetics, homeostasis and the impact of human activities on the ecosystem as well as the biosphere will also be introduced to students.

Prerequisite: None

CHEM 001 – Chemistry I (2-0-2)

CHEM 002 – Chemistry II (2-0-2)

The course aims to help students identify the basic principles of chemistry and its applications in medical fields, and study the atomic structure of elements in a manner dependent on the participation of students in teaching and learning process so as to develop the skills of the student in search of self for information stressing the continuous learning and application of knowledge, experience and skill gained in an innovative way, which helps students to realize the importance of chemistry, and lead to decisions that take into account the sophisticated and precision and objectivity of the investigation. It also aims to develop chemical concepts obtained by the student in secondary school.

Prerequisite: None

PHYS 001 – Basics of Medical Physics (2-0-2)

An introduction to key physical principles as applied to medical imaging and radiation therapy. Topics covered will include the definition and working principle physical metrics, radiation and its safety, radioactivity, radiation therapy, computed tomography, ultrasound, and magnetic resonance imaging.

Prerequisite: None



MATH 005 Basic Mathematics (2-0-2)

Linear equations and applications, linear inequalities, absolute value in equations and inequalities, complex numbers, quadratic equations and applications, functions, odd and even functions, operations on functions, inverse functions, exponential and logarithmic functions, trigonometric functions, conic sections, systems of equations and inequalities, matrices, matrix operations.

Prerequisite: None

ENGL 001 – Preparatory English I (15-5-8)**ENGL 002 – Preparatory English II (15-5-8)**

Students follow a two-semester (600 hour) intensive English-as-a-foreign-language program from an elementary level to an intermediate level. Emphasis is on building the skills of reading, listening, writing and speaking for application to academic studies in science and technology. Instruction in vocabulary and grammar supports development of these skills. At the same time, word-processing skills are introduced and practiced, study skills are developed and attitudes to study and work are reshaped. Instruction is facilitated through classroom instruction, assignments, project work and computer-based programs.

Prerequisite: None

PE 001– Preparatory Health and Physical Education I (0-2-1)

Basics of personal health (Diseases, causes, prevention). Nutrition: balanced diet. Health and fitness, body composition, weight control, cardiovascular endurance and Flexibility test. Physical education, Basic skills of specified sports. Topics related to health education represent not more than 20% of the course.

Prerequisite: None

PE 003 – Preparatory Health and Physical Education III (0-2-1)

Basics of personal health: teeth, skin, feet, sweat. Related diseases: causes and prevention. Nutrition: balanced diet (food ratio, malnutrition, water, nutritional chart). Health Related Fitness: body composition, weight control, cardiovascular endurance. Cardiovascular and endurance test. Basic skills of specified sports.

Prerequisite: None

PYP 002 – Preparatory Computer Science (0-2-1)

Introduction to computer system components. Windows operating systems and its utilities. Hands-on exposure to application software. Introduction to internet tools and technologies.

Prerequisite: None

PYP 003 – University Study Skills (0-2-1)

This course covers skills needed in student's life such as goal setting, time management, communication, analytical thinking, decision making, and problem solving. The student is expected to put these skills in practice utilizing service learning methodology in order to enrich academic learning outcomes while teaching societal responsibility and strengthen local communities. This course aims to develop leadership skills, career-related skills, and sense of caring for others.

Prerequisite: None

