

Virginia Western Community College

Regional Academy 2022-2023 SY

Pre-Health

Health Programs Selected Admissions Preparation Academy

Monday – Friday

8:00 – 10:45 (refer to class schedule for actual times)

Open to 11th – 12th grade students

Program Objectives: Prepare students with the background knowledge and course pre-requisites to apply for Virginia Western’s selective admissions health programs including the AAS programs in dental hygiene, medical laboratory technology, nursing, radiation oncology, and radiography as well as the certificate in practical nursing.

Admission Requirements: Applicants must meet the requirements for admission to credit-level coursework established by the college. This program is restricted to dual enrollment applicants who have:

- HS GPA of 3.0+ and have completed Algebra II grade of “C” or higher

Pre-Requisites: BIO 141 has a pre-requisite of BIO 101. For enrollment into BIO 141 students need to complete one of the options noted below:

- Passed BIO 101 through dual enrollment at the high school with a GPA of 3.0+
- Passed the IB or AP exam for Biology at the benchmark score noted on the VWCC website
- Completed BIO 101 on campus prior to starting the Academy
- Passed the Biology CLEP exam with the benchmark score noted on the VWCC website

Students who complete the CTE Dual Enrollment EMT program at the high school (EMS 111 and EMS 120) may qualify for a Career Studies Certificate by completing this Academy.

CURRENT COURSES: The semester course schedule may be altered based on faculty and lab space availability at the college.

COURSES	Intro to Dental Hygiene	Intro to Medical Lab Tech	Intro to Nursing	Intro to Physical Therapist Assistant	Intro to Practical Nursing	Intro to Radiation Oncology	Intro to Radiography	Intro to Surgical Tech
SEMESTER 1								
BIO 101 OR BIO 141 (4CR)	X	X	X	X	X	X	X	X
SDV 101 (2CR)	X	X	X	X	X	X	X	X
ENG 111 (3CR)	X	X	X	X	X	X	X	X
PSY 230 (3CR)	X	X or PHI 220	X	X or PHI 220	X	X	X	X or PHI 220
MTH 161						X		
HLT 143							X	
SEMESTER 2								
BIO 141 OR BIO 142 (4 CR)	X	X	X	X		X	X	X
HLT 105 (1CR)	X	X	X	X	X	X	X	X
HLT 141				X	X	X		X
PHI 220	X	X	X	X	X	X	X	
SEMESTER 3								
BIO 142	X	X or CHM 101	X or PHI 220, or BIO 150	X				X

FIRST SEMESTER

SDV 101 Orientation to Health Professions (2 CR)

Course Type: Program Requirement

Description: Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling, and advising; listening, test taking, and study skills; and topical areas which are applicable to their particular discipline. Explores the careers, skills, and pathways in health professions.

NOTE: *In the first fall semester of the Academy, students will identify their career paths through the SDV 101 course. Based on the path chosen, the instructor will discuss which electives are appropriate for the spring semester (PHI 220, MTH 161, ENG 111, CHM 101, or BIO 142). For students taking MTH 161, VPT placement testing will require successful completion of MTE 1 – 9 prior to the start of that class.*

BIOLOGY – BIO 101 or BIO 141

BIO 101 General Biology (4 CR)

Prerequisite(s): Successful completion of MTE 1, MTE 2, MTE 3, MTE 4, and MTE 5, and a placement recommendation for ENG 111

Course Type: Passport Transfer Class

Description: Focuses on foundations in cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society.

BIO 141 Human Anatomy and Physiology I (4 CR)

Prerequisite(s): Successful completion of BIO 101 (C or better) or NAS 2, or 75% or higher on the Anatomy Placement Exam within the past three years; an ENG 111 placement recommendation

Course Type: Intended for Transfer

Description: Integrates anatomy and physiology of cells, tissues, organs, and systems of the body. Integrates concepts of chemistry, physics and pathology.

PSY 230 - Developmental Psychology (3 CR)

Pre/Corequisite(s): A placement recommendation for ENG 111

Course Type: Intended for Transfer

Description: Studies the development of the individual from conception to death. Follows a life-span perspective on the development of the person's physical, cognitive, and psychosocial growth.

HLT 141 - Introduction to Medical Terminology (1 CR)

Course Type: Intended for Career Preparation

Description: Focuses on medical terminology for students preparing for careers in the health professions.

ENG 111 – College Composition I (3 CR)

Prerequisite(s): A placement recommendation for ENG 111

Course Type: Passport Transfer Class

Description: Introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay.

SECOND SEMESTER

BIOLOGY – BIO 141 or BIO 142

BIO 141 Human Anatomy and Physiology I (4 CR)

Prerequisite(s): Successful completion of BIO 101 (C or better) or NAS 2, or 75% or higher on the Anatomy Placement Exam within the past three years; an ENG 111 placement recommendation

Course Type: Intended for Transfer

Description: Integrates anatomy and physiology of cells, tissues, organs, and systems of the body. Integrates concepts of chemistry, physics and pathology.

BIO 142 - Human Anatomy and Physiology II (4 CR)

Prerequisite(s): Successful completion of BIO 141* with a grade of "C" or higher.

Course Type: Intended for Transfer

Description: Integrates anatomy and physiology of cells, tissues, organs, and systems of the human body. Integrates concepts of chemistry, physics and pathology.

HLT 105 Cardiopulmonary Resuscitation (1 CR)

Course Type: Intended for Career Preparation

Description: Equivalent to EMS 100. Provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness. Certifications include American Heart Association (AHA) Basic Life Support (BLS) for healthcare providers. Credit will not be awarded for both HLT 105 and HLT 106.

STUDENTS WILL CHOOSE SELECT FROM THESE COURSES BASED ON THEIR CAREER PATHWAY INTEREST:

PHI 220 – Ethics (3 CR)

Course Type: Intended for Transfer

Description: Provides a systematic study of representative ethical systems.

MTH 161 – Pre-Calculus I (3 CR)

Prerequisite(s): MTE 1, MTE 2, MTE 3, MTE 4, MTE 5, MTE 6, MTE 7, MTE 8, and MTE 9

Course Type: Passport Transfer Class

Description: Presents topics in power, polynomial, rational, exponential, and logarithmic functions, and systems of equations and inequalities. Credit will not be awarded for both MTH 161: Precalculus I and MTH 167 Pre-Calculus with Trigonometry.

CHM 101- Introductory Chemistry I (4 CR)

Prerequisite(s): MTE 1, MTE 2, MTE 3, MTE 4, MTE 5 and a placement recommendation for ENG 111

Course Type: Passport Transfer Class

Description: Explores the experimental and theoretical concepts of general chemistry while emphasizing scientific reasoning, critical and analytical thinking. Designed for the non-science major.

HLT 143 – Medical Terminology I (3 CR)

Prerequisite(s): A placement recommendation for ENG 111

Course Type: Intended for Career Preparation

Description: Provides an understanding of medical abbreviations and terms. Includes the study of prefixes, suffixes, word stems, and technical terms with emphasis on proper spelling, pronunciation, and usage. Emphasizes more complex skills and techniques in understanding medical terminology.

BIO 142 - Human Anatomy and Physiology II (4 CR)

Prerequisite(s): Successful completion of BIO 141* with a grade of "C" or higher.

Course Type: Intended for Transfer

Description: Integrates anatomy and physiology of cells, tissues, organs, and systems of the human body. Integrates concepts of chemistry, physics and pathology.

NOTE: Students that have earned college credit through dual enrollment or AP for any of the classes noted above, do not have to repeat the class in this Academy.