

## Virginia Western Community College

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### Regional Academy

#### **Advanced Technology in Mechatronics**

**CSC 221-706-90 (19 college credits)**

**One Year Program**

**Pre-Requisites:** VPT – Placed ENG 111 and MTE 1 - 6

**Purpose:** This curriculum is designed to challenge the student with hands-on instruction in mechanical, electrical and computer systems in preparation for the Siemens Mechatronics Systems Certification. A Siemens Certified Mechatronic Systems Associate will function as a highly skilled technician who can work with modules and components in complex mechatronic systems as well as be able to assess and analyze the system as a whole. A certified Associate can manage, investigate, repair and troubleshoot mechatronic systems, with the aim of operational and cost efficiency, and process control.

#### **Air Conditioning and Refrigeration Program**

**(12 college credits)**

**One Year Academy Program.** Recommended for HS Seniors

**Purpose:** This curriculum is designed to meet the short-term training needs of the adult part-time student by presenting the essential technical concepts and practices of the air conditioning and refrigeration field.

#### **Engineering**

**CSC 221-831-01 (39 college credits)**

**Two Year Program**

**Pre-Requisites:** VPT – Placed ENG 111 and MTE 1 – 9

**Purpose:** This curriculum is designed for persons who want to explore engineering as a potential major. Program Objectives: This program allows students to experience the exciting opportunities in engineering and prepare themselves for an associate of science degree in engineering, which is transferable to a four-year college or university to complete a baccalaureate degree.

#### **Science- Health Sciences**

**(42 college credits)**

Two Year Program designed for Juniors and Seniors in high school

**Pre-Requisites:** VPT – Placed ENG 111 and MTE 1 - 9

**Purpose:** This curriculum is designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree in allied health programs such as nursing, health education or dietetics/nutrition.

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**Nurse Aide**

**CSC 221-157-04 (17 college credits)**

**One Year Program**

**Pre-Requisites:** VPT – Placed ENG 111 and MTE 1

**Purpose:** Prepares students for a career as a Certified Nurse Aide (CNA). The program will provide instruction to prepare qualified students to meet the health care needs of the community within the scope of practice of a CNA, as defined by the Virginia Board of Nursing. Graduates of this program earn a Career Studies Certificate in Nurse Aide and will be academically eligible to take the Certification Examination.

**Program Objectives:** Employment opportunities include nursing homes, hospices, public health and community nursing, medical offices and clinics, and acute and long-term care facilities.

**Health Programs Selected Admissions Preparation Academy**

**One Year Program designed for Seniors in high school**

**CSC- Number TBD by VCCS (19 credits)**

**Pre-requisites:** ENG 111, BIO 101 or Anatomy Placement Exam\*, VPT- placed ENG 111 and MTE 1-5

**Purpose:** Prepares students to apply for Virginia Western's selective admissions health programs. This program includes courses that are typically found as pre-requisites to the application process.

**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.

**\*Anatomy Placement Exam can be offered at the end of the high school biology class. Contact the Biology Program Head at VWCC for more details.**