Mechatronics
Program Description

PROGRAM: The Mechatronics Program consists of three Courses, Mechatronics 1 (8554), Mechatronics 2 (8555), and Mechatronics 3 (8556).

CAMPUS LOCATION: Butler Farm, Building C, Hampton, VA

COURSE DESCRIPTION: This is a one-year program offered at the Butler Farm Campus through an advanced manufacturing partnership with Thomas Nelson Community College (TNCC). Mechatronics is a combination of Electrical and Mechanical Engineering Technology. It has applications in Advanced Manufacturing, Aeronautics, Medical Technology and other industries that utilize Robotics and Automation. This Certificate prepares students for the Siemens Mechatronics Level 1 Exam SMSCP. Successful completion of this Certification is required for graduation. Students will also have the opportunity to earn additional FI4.0CP Certifications that are embedded into several of the classes. Graduates can seek job placement with local industry partners, enroll in the Industry 4.0 certificate to earn additional industry certifications and/or continue pursuing the Mechanical Engineering Technology Degree (956-02)

FI4.0CP – Festo Industry 4.0 Certification Program
SMSCP – Siemens Mechatronic Systems Certification Program

PREREQUISITES: Virginia Placement Test (VPT) MTE 1-5

CLASS SIZE: 16 is the maximum number of students per class.

CLASS FEES: $17.00 school activity fee

TEXTBOOK: Siemens handouts (PDF’s) and FI4.0CP On-Line Flipbook.

STUDENT ORGANIZATIONS: National Honor Society

CREDENTIALING: Students will have the opportunity to earn industry credentials from one or more of the following

- Festo Industry 4.0 Certification Program (FI4.0CP)
- National Occupational Competency Testing Institute (NOCTI)
- Siemens Mechatronic Systems Certification Program (SMSCP)

COURSE SCHEDULE:

- Mechatronics I-Fall Semester
- Mechatronics II-Fall/Spring Semester
- Mechatronics III-Spring Semester

POSTSECONDARY PARTNERS: Thomas Nelson Community College (TNCC)
INDUSTRY PARTNERS:

- Arconic
- Ball Manufacturing
- Canon
- Muhlbauer
- SwissLog

TEACHER: Professor Stephanie L. Cruz (BSME)