# Industry Credentials, Concentration Sequences, and Career Clusters

# Engineering Computer Science (8449)

## Industry Credentials:

*These apply only to 36-week courses*

- Advanced Placement (AP) Computer Science Principles Examination
- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Workplace Readiness Skills for the Commonwealth Examination

## Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence.** A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Engineering Analysis and Applications II
- Engineering Explorations I
- Engineering Studies
- Technology of Robotic Design

## Career Clusters, Career Pathways, and Occupations:

- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Aerospace Engineer
    - Biomedical Engineer
    - Civil Engineer
    - Electrical Engineer
    - Industrial Engineer
    - Mechanical Engineer
    - Power Systems Engineer