Engineering Tech. vs. Engineering

**Engineering Technology**
- Application and Design Research
- Programming
- Troubleshooting
- Math knowledge includes algebra,
  - trigonometry, analytic geometry, and the fundamentals of calculus with an emphasis on applications
- Understands application techniques
- Application of principles
- Options for higher degrees

**Engineering**
- Theory and Design
- Math knowledge includes algebra,
  - trigonometry, analytic geometry, and
  - calculus through differential equations with an emphasis on fundamental principles
- Understands derivation of techniques
- Understanding of theory behind principles
- Options for higher degrees
STEM Engineering and Engineering Technology Program Pathways

Engineering Transfer A.S.

VWCC A.S. degrees offered:

- Engineering
- Engineering – Computer Science Specialization
- Engineering – Construction Management Specialization
- Discipline starts at 4 year college (VWCC offers only engineering discipline specific electives in the A.S.)

Transfers to 4 Year College Bachelor’s

- GAAs w/VT, VCU, ODU, UVA
- Students must research for specific discipline requirements

Engineering Technology A.A.S.

VWCC A.A.S. degrees offered:

- MSET – Mechatronics Systems Engineering Technology
- MSET - Electrical Engineering Technology Specialization
- MSET – Design Engineering Technology Specialization
- Considered “Workforce Ready” as specialization provided in AAS degree

Transfers to 4 Year College

- ODU – Articulation Agreements
- Purdue – Articulation Agreement – Mechatronics only

- Engineering Transfer is not designed for students to transfer into Architecture programs (B.S. or M.S.). These students should be placed in the General Studies degree program and work with the school of interest to ensure general education classes are fulfilled.
- VT does not accept external transfers into the Architecture program. See VT Admissions website for more information.
Science Transfer A.S.

VWCC A.S. degrees offered:
- Science – Pre-Med. / PA / Vet Med. / Dental / Pharmacy / PHY / CHM / BIO / GEO
- Science – Health Sciences Specialization
- Science – Integrated Environmental Studies Specialization
- Science – Math Specialization
- Science – Dietetics & Nutrition Specialization (Health Professions)

Transfers to 4 Year College for Bachelor / Pre-Professional programs
- GAAs w/VT, VCU, ODU, UVA, etc.
- Students must research for specific discipline requirements

VWCC Certificates offered:
- Biotechnology CSC – provides hands-on skills to gain employment in the fields of Biotechnology, Health Sciences, and Scientific Research
- Exercise & Personal Training (Health Professions) Certificates - provides classroom hours for the CPT certification exam through American Council on Exercise (ACE).

Does Not Transfer to 4 Year College – Not enough General Education credits / Used to gain skills/certs/resume builder