Still not sure about a major? See: www.careercornerstone.org for help choosing an engineering or science major

B.S. in Mechanical Engineering – Robotics & Mechatronics Major
(for students entering 2021-22)

Freshman:
1st semester (16 credits)
- CHEM 1035 (3)
  Chemistry

Freshman:
2nd semester (16 credits)
- CHEM 1045 (1)
  Chem Lab
  Co: CHEM 1035

Sophomore:
1st semester (17 credits)
- PHYS 2305 (4)
  Physics I
  Pre: MATH1225
  Co: MATH 1226

Sophomore:
2nd semester (16 credits)
- ME 2004 (3)
  Numerical Methods (C-)
  Pre: MATH1226

Junior:
1st semester (17 credits)
- ME 3414(4)
  Fluid Mechanics (w/lab)
  Pre: MATH 2214, ENGE1216, ME2134

Junior:
2nd semester (17 credits)
- ME 3043
  Heat & Mass Transfer
  Pre: ME2134(C-), ME3414, ME2004(C-), & MATH 2214

Senior:
1st semester (15 credits)****
- Pathways**
  Concept 3 (3)
  Pathways**
  Concept 7 (3)
  Pathways**
  Concept 2 (3)

Senior:
2nd semester (15 credits)
- Pathways
  Concept 2 (3)
  Pathways
  Concept 3 (3)

Notes:
Arrows denote prerequisites. Prerequisites of prerequisites must be met. Prerequisites may change without warning - see undergrad catalog for updates.

-Must earn C- or higher in ME2004 & ME2134 to meet prerequisite & graduation requirements.

-Combine Pathways Concept 7 with Concept 2 or 3 to eliminate 3 credits.

-Senior courses are offered only once per year; ME4015 & ME4016 must be taken in order during the same academic year, beginning in Fall.

Continued enrollment requirements: see ME website for more information, www.me.vt.edu.
-2.000 minimum in-major GPA (all “ME” & “NSEG” courses)
-2.000 minimum extended in-major GPA ( “ME”, “NSEG” courses & ESM2104, 2204, & 2304)
-2.000 minimum overall GPA (all courses)

-By 45 attempted required hours completion of: ESM2104, MATH2204 & MATH2114
-By 60 attempted required hours completion of: MATH2214, ESM2304, & ME2004 (C-)
-By 72 attempted required hours completion of: ME2134 (C-), (ME3024 or ME3624), & ME3524
-By 93 attempted required hours completion of ME4015 and ME4254

www.me.vt.edu