B.S. in Mechanical Engineering – Mechanical Engineering Major
5 Year Military Plan (10 semesters of classes)

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 (13 credits)
- ME 3414 (4) Fluid Mechanics (w/lab)
  Pre: PHYS 2314, 2214 & 2204, ME2004 (C-); Co: ME2134

Sophomore: 2nd semester (13 credits)
- ME 3024 (3) Design & Econ
  Pre: ME2004, ESM2204, ESM2304, & ENGL1105 & 1106

Junior: 1st semester (12 credits)
- ME 3304 (3) Heat & Mass Transfer
  Pre: ME2134(C-), ME3414, ME2004(C-), & ME 2214

Junior: 2nd semester (13 credits)
- ME 3634 (4) Controls (w/lab)
  Pre: ESM2104 & 2304, ME2004(C-), MATH2114, 2204 & 2214

Senior: 1st semester (12 credits)
- **ME 4015 (3) Senior Capstone Design
  Pre: ME3024, MSE2034, ME3034, ME3304, ME3524, ME3534, ME3624, & ME4005

Senior: 2nd semester (13 credits)
- STAT 3704 (2) Engr Statistics
  Pre: MATH 2204

5th year 1st semester (12 credits)
- **ME 4124 (3) CAD Thermal/Fluid Design
  Pre: ME2134(C-), ME3414, & ME3304

5th year 2nd semester (12 credits)
- **ME 4016 (3) Senior Capstone Design
  Pre: ME 4015 (continuation of same ME 4015 project from Fall)

Required 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), and ME3524
- By 93 attempted required credits completion ME4015 and ME4124

Notes:
- Some required ROTC courses may meet also Pathways elective requirements.
- Arrows denote prerequisites. Prerequisites of prerequisites must be met. Prerequisites may change without warning. Please check for updates in the timetable of classes.
- *Must earn C- or higher in ME2004 & ME2134 to meet prerequisite & graduation requirements.
- **Required senior courses are offered only once per year; ME4015 & ME4016 must be taken in order during the same academic year, beginning in Fall.
- This is an unofficial planning tool only; please see the approved checksheets on the Registrar’s website for official graduation requirements.

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