B.S. in Mechanical Engineering – Automotive Major
5 year Military Program (10 semesters of classes)

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

2nd semester (16 credits)
- CHEM 1045 (1) Chem Lab
  Co: CHEM 1035
- PHYS 2305 (4) Physics I
  Pre: MATH1225
  Co: MATH 1226

Sophomore:
1st semester (13 credits)
- *ME 2034 (2) Elem Materials Engr
  Pre: CHEM1035, MATH 2204 & PHYS2306; Co: MATH2314

2nd semester (13 credits)
- *ME 2134 (4) Thermodynamics (C-)
  Pre: CHEM1035, MATH 2204 & PHYS2306; Co: MATH2314
- PHYS 2306 Physics II (4)
  Co: PHYS 2305, MATH 2226

Junior:
1st semester (12 credits)
- ME 3414 (4) Fluid Mechanics (w/lab)
  Pre: MATH 2114, 2214 & 2204, ME2004(C-); Co: ME2134

2nd semester (13 credits)
- ME 3304 (3) Heat & Mass Transfer
  Pre: ME2134(C-), ME3414, ME2004(C-), & MATH 2214

Senior:
1st semester (12 credits)
- ME 3034 ME Discourse (1)
  Pre: ME2004(C-), ME3024

2nd semester (10-13 credits)
- ME 3534 (4) Controls (w/lab)
  Pre: ME2004 & 2304, ME2004(C-), MATH2114, 2204 & 2214

5th year 1st semester (12 credits)
- **ME 4015 (3) Senior Capstone Design (Spring only)
  Pre: ME 4015
  (continuation of ME 4015 project from previous Fall)

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

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 undergraduate catalog & meet with an ME advisor.
- Must earn C- or higher in ME2004 & ME2134 to meet prerequisite & graduation requirements.
- **One course may be used to satisfy both Pathways Concept 7 and Concept 2 or 3 to save 3 credits.
- ***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 93 attempted required credits completion ME4015 and ME4544