**OPTIONS FOR MECHANICAL ENGINEERING MAJOR PRESCRIBED ELECTIVES**

**(2018-2019)**

Students pursuing the general program take 12 semester credit hours from the list below:

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| **COURSE** | **PRE-REQUISITE(S)** |
| MECH 2340  Circuits and Applied Electronics | MATH 2420, PHYS 2326, MECH 1208 |
| MECH 3360  Introduction to Materials Science | CHEM 1311, MATH 2415 or 2419, and PHYS 2326 |
| MECH 3370  Applied Thermodynamics | MECH 3310 and MECH 3315 |
| MECH 3380  Introduction to Computational Design & Analysis | CS 1325, MATH 2420, MECH 2320, and MECH 3305 |
| MECH 3V95  Topics in Mechanical Engineering | Varies at Topics Change |
| MECH 4301  Intermediate Mechanics of Materials | MECH 2320 and ENGR 3300 |
| MECH 4320  Applications of Computational Tools in Thermal Fluid Science | MECH 3320 |
| MECH 4330  Intermediate Fluid Mechanics | MECH 3315 |
| MECH 4340  Mechanical Vibrations | ENGR 2300, MATH 2420, ENGR 3341, and MECH 2330 |
| MECH 4360  Introduction to Nanostructured Materials | MECH 2320 and MECH 3310 |
| MECH 4370  Introduction to MEMS | MECH 3310, MECH 3350, PHYS 2326/2126, and CHEM 1311 |
| MECH 4380  HVAC Systems | MECH 3320 |
| MECH 4V95  Topics in Mechanical Engineering | Varies as Topics Change |