**APPROVED ELECTIVES FOR UNDERGRADUATES**

Students wishing to use courses as technical, engineering science, and/or experimental electives that do not appear on this list should submit a petition to the AME faculty for approval.

*Courses that have not been approved in advance may not count for elective credit.*

**IMPORTANT NOTE:** Any of the courses listed below which are part of **YOUR REQUIRED CURRICULUM (AE or ME)**, cannot be considered in your choice of electives.

The electives listed are available to both AE and ME students unless noted with an asterisk *.

I. **ENGINEERING SCIENCE ELECTIVES**

A. AME courses, 3000 level and above, not specifically listed on the required curriculum.  
   **NOTE:** For AME 4980 – a consent form signed by the instructor is required. A maximum of 6 credit hours of AME 4980 is allowed towards a degree.

B. AME 2223* – Introduction to Aerospace Engineering; may be taken by ME students but only for 2 credit hours.

C. All courses offered by the Engineering Schools 3000 level and above excluding courses that are equivalent to AME courses in the required curriculum.

II. **TECHNICAL ELECTIVES**

A. Any Engineering Science Elective (see above)

B. Basic Science:
   1. Chemistry: CHEM 3012 and higher numbered Chemistry courses
   2. Math: MATH 3333
      Any MATH 4000 level and above
   3. Physics: PHYS 3043, 3183, 3223* (approved for AE students only) and 3803
      Any PHYS 4000 level and above
   4. Astronomy: ASTR 3113 and 4303

C. Courses offered by the College of Engineering:  
   ENGR 4003CW, ENGR 4113, ENGR 4223, ENGR 4510 Leadership and Organizational Management, ENGR 4513

D. AME 2281 - Engineering Co-Op Program; Co-Op students may substitute up to 3 hours of this course for a Technical Elective

E. Other:
   1. Meteorology: Any METR 4000 level and above

III. **EXPERIMENTAL ELECTIVES** (for both AE and ME unless otherwise noted*)

A. AME 3272* Wind tunnel Lab (approved for ME curriculum only)

B. AME 4442 IC Engine Lab

C. AME 4802 Robotics Lab

D. AME 4812 Dynamics & Control Lab

E. AME 4822 Fluid & Thermal Lab

F. AME 4832 Micro and Nanomaterials Lab

G. AME 4980 Special Lab - NOTE: A consent form signed by the instructor is required. A maximum of 6 credit hours of AME 4980 is allowed towards degree. Course content must have experimental emphasis.