

Engineering Curriculum at a Glance:

- **General Education**
 - *Skills for the 21st Century* – critical thinking, human communication, writing
 - *Arts & Humanities* – human questions & contexts, visual & performing arts, literature
 - *Social & Cultural Processes* – the American experience, the global experience
 - *Individuals in the Human Community* – individual wellness, socio-cultural dimension

- **Science & Mathematics**
 - *Modern Physics* with laboratory
 - *General Chemistry* with laboratory
 - *Biology or Geology* science elective
 - *Calculus* through linear algebra and differential equations

- **Engineering Core**
 - *Engineering Science* – statics, dynamics, fluids, transport phenomena, thermodynamics, heat transfer, instrumentation, circuits, and strength of materials
 - *Engineering Design* – sustainable engineering design including the technical, economic, environmental, and social requirements of design for sustainable societies
 - *Management of Technology* – general business functions, engineering economics, , project & operations management, innovation & entrepreneurship
 - *Sustainability & Systems Analysis* – life-cycle analysis, scoping, valuation, materials inventory, computational thinking, technical/economic/environmental/social impacts

- **Technical Electives**
 - Students are encouraged to develop a coherent package of technical electives to supplement the engineering core. Several pre-approved packages of courses from across the campus will be available as examples of how a student can enhance their educational experience through well defined technical elective courses. Students may also develop their own package of technical electives and submit them for approval so they can pursue their own unique passions.