EQUIPMENT REQUIREMENTS FOR INCOMING ENGINEERING STUDENTS

Most engineering courses require the use and programming of calculators and/or modern computer tools that are used by professional engineers in the engineering industry. Therefore, all entering freshmen and transfer students who declare an engineering major are required to provide for themselves the following equipment.

1) **Graphing Calculator**
   - The calculator must be capable of performing complex number and matrix operations.
   - Recommended: TI-89 (any version)
   - Other options:
     - TI 83 Plus and 84 Plus
     - Casio CFX-9850G Plus and above, fx-9750G and above, fx-CG10 and above
     - HP Prime
   - Unacceptable: TI 84 Plus CE and Nspire
   - Please label your calculator with your name and contact information.

2) **Personal laptop computer**
   - The laptop must be able to connect to Baylor’s wireless (“Wi-Fi”) internet service (called “Airbear”).
   - The laptop must be capable of supporting Microsoft Windows and the simultaneous operation of the student-supplied software applications: Microsoft Office, MATLAB, and an internet browser (Firefox, Chrome, Edge, etc).
   - Students using MacBook laptops will be required to use the above programs within a Windows environment (either dual boot or virtual machine). Resolution of compatibility problems is solely the responsibility of the student. Unless the student already has a MacBook laptop, it is strongly recommended that the student acquire a Windows-based laptop.
   - See Computer Recommendations document for suggested specifications.
   - Please label your laptop with your name and contact information.

3) **Required Software**
   - Microsoft Windows 10
   - Microsoft Office (Word, Excel, PowerPoint)
   - Both of these are available at no cost to Baylor students. Information can be found on the University Libraries TechPoint website. Bear ID and password will be required.

4) **Additional course-specific items**
   - Details will be provided in the syllabus of each course.
   - EGR 1301 – Fall:
     - SolidWorks – student license provided
   - EGR 1302 – Spring:
     - Arduino project kit – $30-$50 purchase
     - MATLAB Student Edition – student license provided
     - LabVIEW Student Edition – $30 purchase