

WINTER 2021 Dual Credit Online Course Offerings

Supply List: ATG 1007 Electronics and Control Systems

****This course involves a lot of software downloads and ordering of materials listed below. We recommend that school divisions play a strong role in helping students manage acquiring these and monitoring closely that everything is working as needed through the duration of the course. The Olds College instructor is always available to assist further.**

To incorporate some hands-on practical portions into both the classes and optional labs:

- A Digital Multimeter (found locally, at the school or on [Amazon](#)) Approximate cost \$30
- An Arduino Starter Kit ([this one](#) from Amazon) (one per student if they will be studying individually) Approximate cost \$40
- ***Students/School Divisions will be required to have these 2 items delivered within 2 weeks of the course starting***

For computers and software:

- **Students must have access to a Windows PC running Windows 10** (not a Mac or Chromebook)
- Google Earth Pro desktop version ([free - download here](#))
- QGIS ([free - download here](#))
- Arduino IDE ([free - download here](#))
- An Android emulator (free): [NOX](#)
- Students should sign up for a free Tinkercad account at <https://www.tinkercad.com/> as we will use this platform to design electronic circuits and learn programming
- Students should also create a free MyJohnDeere account at <https://myjohndeere.deere.com/>. This will allow them access to some John Deere machine simulators used in the course.
- SMS Advanced Software: Ag Leaders Technology does have a trial version (21 days), as well students will have access to the Olds College computer lab for remote access to our computer labs to access at no cost.