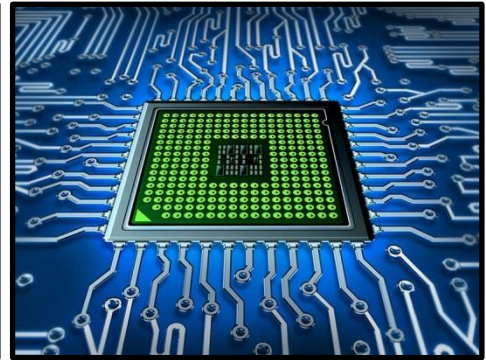
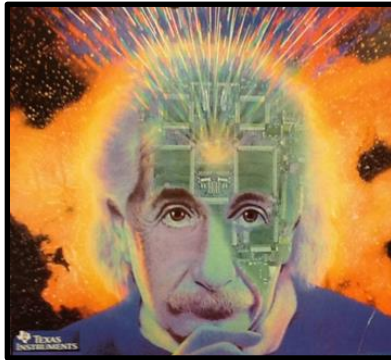
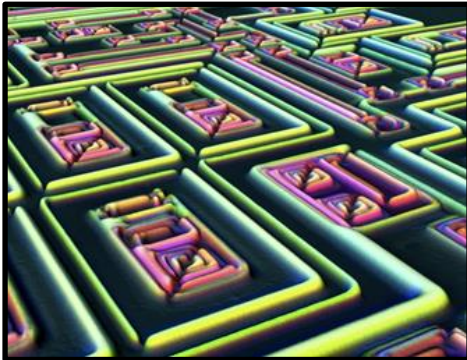


# Solid State Electronics



Prerequisite: AC/DC Electronics

Course: 1843CT

Credits: 1

Length: 18 weeks

Placement: 10-12

## Course Description

This class builds on the skills learned in AC/DC Electronics. Students will be required to develop a Project Development Plan and do research on the various projects they will build as a part of the course. Topics of study include circuit application, robotics, microprocessors, optic electronics, voice sensors, high voltage, power supplies, amplifiers, oscillators, active devices, solid state applications, video and sound circuits, integrated circuits, television and radio theory and application, digital electronics, fundamentals of logic and other areas of electronics found in the industry. Visit Achieve Texas for more information on career opportunities at: <http://www.achievetexas.org/Sciences.htm>

## Student Activities

- Students use the concepts taught in class to research, design, build, troubleshoot and explain projects.
- Students participate in community service projects such as providing a video game room at a Christmas party for underprivileged children
- Students have the opportunity to compete in SkillsUSA

## Organizations/After School/Competitions



## Certificate of Excellence

## Additional Considerations

Students must have successfully completed Geometry without modification. Students need fine motor skills and mobility.



Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit [goo.gl/9VM3a9](http://goo.gl/9VM3a9)