

## COURSE SYLLABI

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## DEPARTMENT OF CAREER AND TECHNOLOGY EDUCATION (CTE) PLAINFIELD CENTRAL & NORTH

Web→ [pchs.psd202.org/teacher/mcgahey/home](https://pchs.psd202.org/teacher/mcgahey/home)

- This course is ***project based***. Students will acquire new skills through a series of brief presentations and practice sessions covering a week in length on average. From their students embark on a project synthesizing a conglomerate of the skills they've learned and practiced.
- Projects are typically individual, however there are typically two ***team-based projects*** per semester. Students will pick their team on one project, and will be assigned to a team on the second.
- Projects are graded as ***assessments*** (exams) and are generally one to three weeks in length. Students earn their score upon ***completion*** of project and with a final ***design presentation***.
- ***Practice*** grades are completed at two per week. One practice grade is for ***participation*** (engagement in class & professional behavior) and the second for completion of a basic set of ***skills practice objectives***. Should a student ever be asked to leave class, or be removed from class for behavioral issues, the practice grade for the week becomes an automatic zero.

### GRADING

Practice = 20%  
Projects = 60%  
Final Exam = 20%

*Project scores are assessed 50% for completion of the project, and 50% for quality of scoring in each category of the project rubric*

### Late Work Policy

- Late practice assignments may be turned at any point prior to end of semester for a score of 49%
- Late projects will be reduced at a rate of 1-letter grade per day based on student's maximum assessed score. Ex: if a student scores an 86% on a project and it is 1 day late, the maximum attainable would be an 89. The earned 86% is then multiplied by .89 resulting in a 76.5%.

Students will have number of days they were absent following an excused absence to make up late work w/o penalty

## Course Offerings

### **Tech CAD:**

*Introductory course in which students learn the basics of drafting and design and use of AutoDesk software, predominantly AutoCAD.*

### **Architectural CAD 1:**

*Students learn basics of building and design focusing largely on residential structures.*

### **Architectural CAD 2:**

*Students embark on more advanced architectural design drawings and models, employ elements of electrical and mechanical planning, as well as site planning.*

### **3D-Solid Modeling:**

*Students use basic 3D drafting and design skills to create more complex objects and photorealistic presentations and renderings with use of AutoCAD, Inventor, and 3D Studio Max*

### **Engineering CAD:**

*Students investigate products, create detailed assemblies, and construct working prototypes with 3D printers and laser cutters. Students also conduct design testing.*

### **Independent Study:**

*Students having completed Tech CAD, plus a combination of any other three CAD courses may take a final independent study. This is a 1 semester, self-guided project of the student's choosing.*