

Naperville North High School
Course: Drafting Studio 2 (Architecture/Pre-Engineering)



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District Mission	To educate students to be self-directed learners, collaborative workers, complex thinkers, quality producers, and community contributors
CTE Mission	In partnership with the community Career and Technical Education (CTE) provides students with real-world experiences. Students will discover and explore their passions which will lead to career opportunities and the development of life skills.
Course Description	This course is intended for those students who have a high interest and aptitude for engineering and/or architecture. Topics covered are: detailed multi-view projections that would coincide with hands on projects in various areas of engineering. Students will be given tasks that will simulate real world problems in and around our community. Architecture topics will include CAD Drafting, energy efficiency (LEED), construction techniques and terminology, residential and commercial building design and interior design. These aspects will be utilized to participate in an authentic learning experience.
Course Textbook & Resources	Students will utilize canvas for all assignments pertaining to this course. Various projects, competitions, field trips are used to increase students' interests in the fields of architecture and pre-engineering.
Course Standards & Weights	Students can use their understanding of digital manufacturing tools and computer-based programs to complete the design and develop implementation processes in both the architecture and pre-engineering fields. (100%)
Units of Study:	Architecture Pre-Engineering
Grade Calculation Definitions	<p>At Naperville North we define formative and summative work as follows:</p> <ul style="list-style-type: none">• <u>Formative work</u> is used to monitor student's learning to provide ongoing feedback that can be used by students to improve their learning. Examples may include: practice activities, homework, quizzes, etc.• <u>Summative work</u> is used to evaluate student learning at the end of an instructional unit or segment of learning by comparing it against a standard or benchmark.
Grading Practices	<p>Grades communicate each student's progress toward mastery of goals/standards for the course.</p> <ul style="list-style-type: none">• No extra credit will be issued.

- In Infinite Campus, a score of “Missing” (M) will indicate an assessment has not been turned in and the comments section will include a specific date by which students can still submit. After that date, a zero (0) will be recorded.
- Summative work submitted after the original due date cannot be penalized more than a total of 10% and must be submitted no later than two weeks after the original due date.
- If a legitimate attempt is made on a summative assessment before the deadline, a score of 50% will be the lowest possible grade.
- Formative work:
 - Accepted up to the end of each unit.
 - Formative work submitted after the due date cannot be penalized more than a total of 10%.
- Violations of the academic integrity policy will be consequence by the administration in collaboration with the department chair/teacher.

Grading Disbursement

A=100-90%, B=89-80%, C= 79-70%, D=69-60%, F=59-0%

Semester Grade:

- Coursework = 85% (Summatives=90%, Formatives=10%)
- Final Exam =15%

Final Exam Format: Hands on assessment and competition/portfolio

Academic Integrity Code

District 203 students are challenged to address the academic process enthusiastically, diligently, and most importantly, honestly. It is the responsibility of our students, teachers, and administration to uphold the fundamental academic values of honesty, responsibility, fairness, respect, and trust. The integrity of our district’s academic programs is built upon these principles.

Academic integrity violations include cheating; plagiarism, self-plagiarism or copy infringement; obtaining or providing an unfair advantage; falsification of documents; unauthorized access to records; and inappropriate collaboration, whether intentional or unintentional. The classroom teacher and administration will collaborate and exercise professional judgment in determining academic integrity violations.

Reassessment Policy

Students will be provided with multiple and varied opportunities to demonstrate mastery of learning standards. The purpose of reassessment is to allow students to demonstrate mastery of course standards in which they remain deficient.

- Students will be required to engage in further learning and reassessment when students do not demonstrate sufficient learning of the course essential standards.
- Students who have demonstrated sufficient learning of the essential standards (but scored below 80%), will be allowed reassessment opportunities on summative assessments if they so choose. To be eligible for reassessment, students must
 - Complete a reflection on the project with possible alternative solutions
 - Resubmit the project increasing the productivity
 - Complete an alternative project
- Reassessments MUST be completed during the next unit of study.

- Project-based assessments that include multiple opportunities for feedback and improvement in the assessment process will represent multiple attempts and be considered a reassessment
- Higher reassessment grades will replace the original assessment score (but will not exceed 80%).

Student Communication

- You are encouraged to communicate with their teacher regarding questions.
- Teachers make every effort to respond to emails and phone calls within 24 hours during the workweek.
- The best way to communicate with teachers is through email; however, if you haven't received a response within 48 hours, please resend the email or call their voicemail. Your email may have been filtered.

Additional Resources for Support

- You can make an appointment with your teacher should you need additional instruction or support in learning material.
- You can attend S.O.S. (Supervised Open Study) in the Learning Commons Monday, Wednesday, and Thursday from 3:15-4:15 to receive extra support or to work on assignments.
- You can drop in to work with a peer tutor during lunch periods or before school in the Literacy Center.

Parents or Guardians Partnership

Naperville North believes in a collective partnership with parents/guardians which provides students the best opportunities for success.

Some ways parents/guardians can support their student's learning are:

- Actively check Infinite Campus for their student's grades.
 - o Infinite Campus is a tool to progress monitor student work until the final course grade is posted.
 - o Monthly progress grades are posted and represent the current grade of a student in the course at that moment in time.
- Discuss missing assignments, reiterate due dates, help organize folders, materials, assignment notebooks, and review upcoming projects and assessments.

COURSEWORK ASSESSMENT DETAIL

Assessments may be added or eliminated based on teacher discretion.

Standard 1:

Students can use their understanding of digital manufacturing tools and computer based programs to complete the design and develop implementation processes in pre engineering.

- ☐ Marble maze
- ☐ Bridges
- ☐ Cranes
- ☐ Assembly drawings
- ☐ Packaging engineering project
- ☐ Edible Pre-engineering project

Standard 2:

Students can use their understanding of digital manufacturing tools and computer based programs to complete the design and develop implementation processes in architecture.

- ☐ Wall section
- ☐ Floor plan
- ☐ Front elevations
- ☐ Site planning
- ☐ Edible Architecture Project

- ☐ Culminating the 2nd Semester Project is a Architecture/Pre-engineering Competition. TBD