

Design Tech

COURSE SYLLABUS

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Course Description tedeschis@cm201u.org

This course is the foundation for design and engineering courses. It is a hands-on program that includes classroom engagement, drives collaboration, and inspires critical and creative thinking. Topics include design and modeling, introduction to CAD Programs, computer programming with microprocessors, and creating sustainable designs. Real world applications are presented within the course content and a function's approach is emphasized.

IB Middle Years Programme Objectives & Strands: IB Design MYP Year 3

A. Inquiring and analysing

1. explain and justify the need for the solution to a problem
2. construct a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem
3. analyze a group of similar products that inspire a solution to the problem
4. develop a design brief, which presents the analysis of relevant research

B. Developing ideas

1. develop a design specification, which outlines the success criteria for the design of a solution based on the data collected
2. present a range of feasible design ideas, which can be correctly interpreted by others
3. present the chosen design and outline the reasons for its selection
4. develop accurate planning drawings/diagrams and outline requirements for the creation of the chosen

C. Creating the solution

1. construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution.
2. demonstrate excellent technical skills when making the solution.
3. follow the plan to create the solution, which functions as intended.
4. explain changes made to the chosen design and plan when making the solution
5. present the solution as a whole

D. Evaluating

1. describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution.
2. explain the success of the solution against the design specification
3. describe how the solution could be improved
4. describe the impact of the solution on the client/target audience

Categories & Weights (explain that you use Total Points if that's what you are using)

Assessments	Total Points
Classwork	Total Points
Projects	Total Points

Grading Scale

100% -90%	A
89% - 80%	B
79% - 70%	C
69%-60%	D
59% and below	F

Family Access/Student Access:

- Grades are updated in Skyward every Friday. Parents should check online grades regularly through Family Access. If you do not have your login credentials for Family Access please contact our Technology Department at 708-367-2930.
- Students will be trained to review their own grades and academic progress through Student Access.

Class Supplies Needed:

- Chromebook--Charged @ home daily.
- Spiral or composition notebook
- Folder
- Pencil
- Planner

Late/Absence Work Policy:

- Late work may be turned in up to a week after the assigned due date with no penalty.
- Late work may be turned in up to two weeks late with 25% taken off.

All students are expected to adhere to the CMMS Academic Honesty Policy. Our Academic Honesty policy was sent home during the first week of school.

If you have questions about content and or grades, please contact your child's teacher.