

# Computer Integrated Manufacturing (CIM)

Mrs. Nelson, Room 408

2018 – 2019 School Year



## Course Description:

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design, and build manufacturing systems. Computer Integrated Manufacturing is a high school level course that is appropriate for 11<sup>th</sup> and 12<sup>th</sup> grade students interested in manufacturing and automation. It is recommended that students are concurrently enrolled in grade level mathematics and science courses and have successfully completed the Introduction to Engineering Design (IED) and Principles of Engineering (POE) courses. CIM is one of the specialization courses in the Project Lead The Way high school engineering program.

## MCHS Grading Scale

100 – 93 A	92 – 90 A-	89 – 87 B+
86 – 83 B	82 – 80 B-	79 – 77 C+
76 – 73 C	72 – 70 C-	69 – 67 D+
66 – 63 D	62 – 60 D-	59 & below E

## Semester Grade

The semester grade is comprised of 80% of the average of the two quarters and 20% of the final exam grade. Students overall GPA is calculated using semester grades, not quarters.

**Daily Participation Points:** Students will be given daily participation points based on how well they utilize their class-time. Much of what we do in CIM requires the use of software, technology, tools, and machines that are not accessible from home. It's imperative that students come to class prepared and ready to learn every day. Attendance is critical to reach appropriate deadlines with quality workmanship.

**Activities:** Activities usually coincide with a powerpoint presentation involving new concepts, new vocabulary, etc. Powerpoint presentations and activities may be assigned as homework so students can maximize class time for projects.

**Assessments:** Students should anticipate assessments over powerpoint presentations, activities, and key terms throughout the semester. Students are required to take an end of course exam and these assessments will help in preparation.

**Projects:** Projects require the students to apply the knowledge learned through presentations and activities. Projects require more time and are worth more points.

**Presentations:** Students will be required to present to the classroom several times throughout the school year. Many of these presentations are group presentations and it is vital that every member of the group is present. If a presentation is missed, that student **WILL NOT** be able to make-up the points for the presentation unless the absence is documented as a funeral or medical absence.

## Required Materials

Pens  
Pencils  
1" 3-Ring Binder or Folder with fasteners

Notebook Dividers (at least 4)  
Flash Drive  
Engineering Notebook (1st one provided)

**Classroom Expectations:** It is my responsibility as your teacher to provide and maintain a **safe** and **effective** learning environment. My teaching style and delivery are structured around the following behavior guidelines:

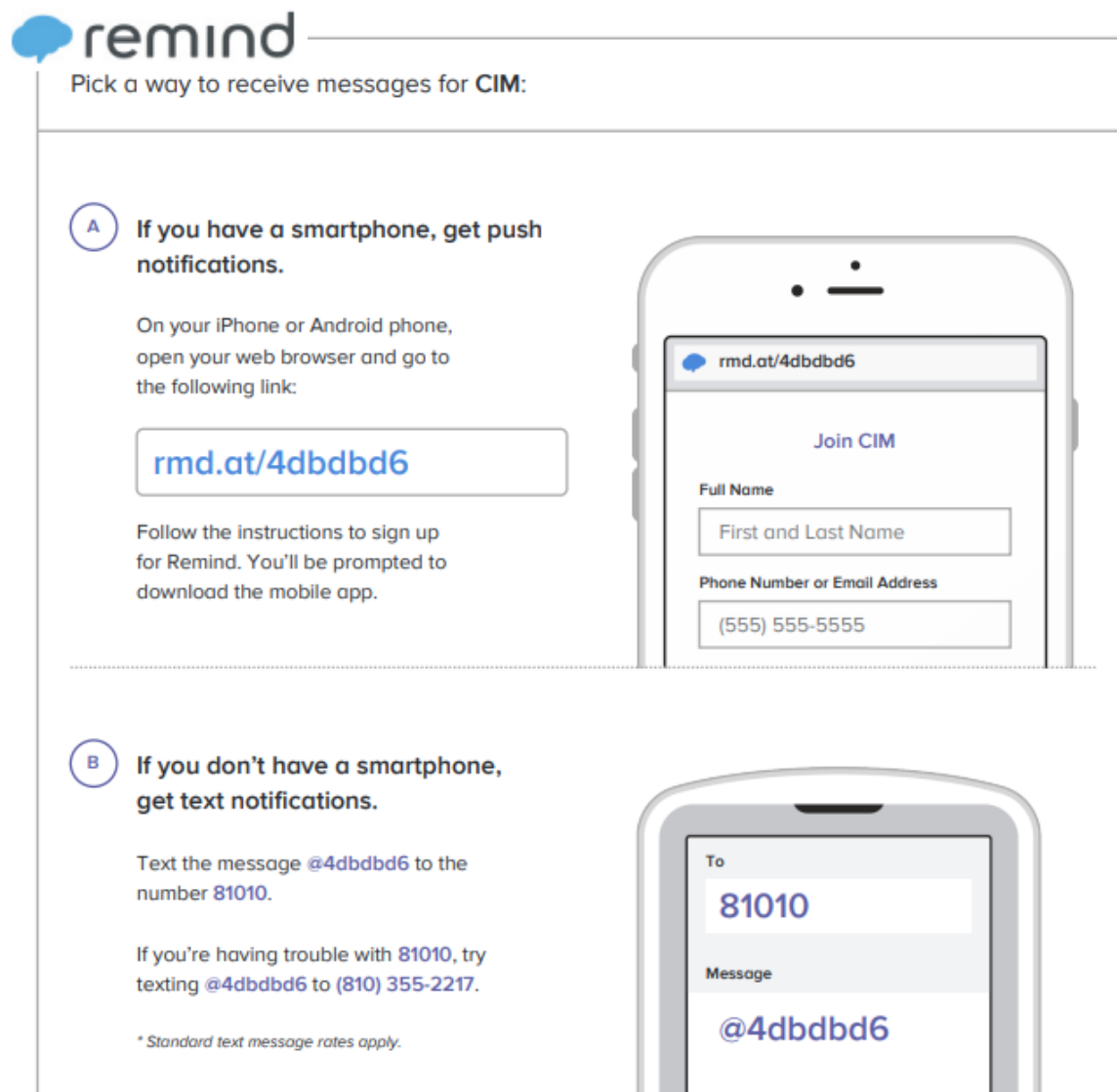
**1. RESPECT** – I respect all my students and expect my students to respect each other, their school, and me. Listen quietly while someone in the class is speaking, teacher or student.

**2. PREPARATION** – Come to class prepared to learn and **on-time**. Bringing your materials to class every day is the first step towards being prepared for class.

**3. RESPONSIBILITY** – CIM class time is critical because the tools, software, technology, and machinery necessary to complete activities and projects cannot be accessed from home. In addition, these materials are expensive and some dangerous if students are not responsible learners. Horseplay and carelessness **WILL NOT** be tolerated.

**Electronic Device Policy:** The use of cell phones will only be permitted when documenting student work with pictures and video. During this time, all other functions of the phone will not be permitted.

**In addition to these three behavior guidelines, all school rules will apply in my classroom. See the Student Handbook for more information on the Marine City High School webpage.**



The image shows a sign-up page for the Remind app. At the top left is the Remind logo. Below it, the text says "Pick a way to receive messages for CIM:". There are two main sections, A and B. Section A is for smartphone users and includes a link to "rmd.at/4dbdbd6" and a screenshot of a smartphone displaying a "Join CIM" form with fields for "Full Name" and "Phone Number or Email Address". Section B is for non-smartphone users and includes instructions to text "@4dbdbd6" to "81010" and a screenshot of a text message interface showing the recipient number "81010" and the sender "@4dbdbd6".

**remind**

Pick a way to receive messages for CIM:

**A** If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

[rmd.at/4dbdbd6](https://rmd.at/4dbdbd6)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.

**B** If you don't have a smartphone, get text notifications.

Text the message @4dbdbd6 to the number 81010.

If you're having trouble with 81010, try texting @4dbdbd6 to (810) 355-2217.

\* Standard text message rates apply.

Don't have a mobile phone? Go to [rmd.at/4dbdbd6](https://rmd.at/4dbdbd6) on a desktop computer to sign up for email notifications.