

Computer Integrated Manufacturing (CIM)

Mrs. Nelson, Room 408

2017 – 2018 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 11th and 12th 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 classtime. 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.

Engineering Notebooks: Random notebook checks will occur throughout the year. Students must follow the engineering notebook guidelines to receive full credit. Be neat, thorough, and organized.

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.

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:

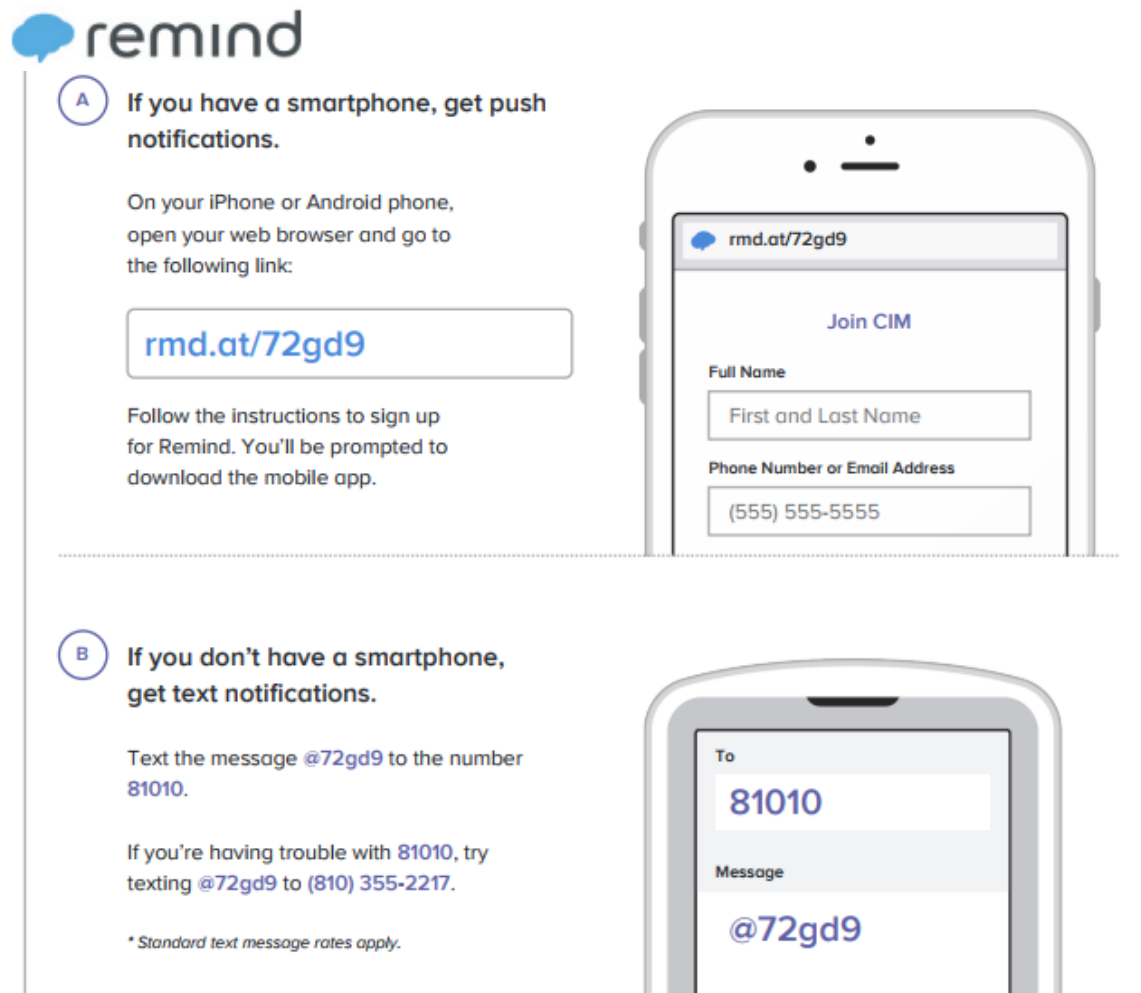
1. RESPECT – I respect all my students and expect my students to respect each other, their school, and me. Listen quietly while someone in the class is speaking, teacher or student.

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 is a graphic titled "remind" with a blue speech bubble icon. It is divided into two sections, A and B, each with a corresponding smartphone illustration. Section A, "If you have a smartphone, get push notifications," includes instructions to visit rmd.at/72gd9 on a smartphone. The illustration shows a phone screen with the URL at the top, a "Join CIM" button, and input fields for "Full Name" (containing "First and Last Name") and "Phone Number or Email Address" (containing "(555) 555-5555"). Section B, "If you don't have a smartphone, get text notifications," includes instructions to text [@72gd9](https://www.twttr.com/@72gd9) to 81010. The illustration shows a phone screen with "To: 81010" and "Message: @72gd9". A small asterisk note at the bottom of section B reads "* Standard text message rates apply."

Don't have a mobile phone? Go to rmd.at/72gd9 on a desktop computer to sign up for email notifications.