

# Processes and Material

Autumn  
2021-22  
Tuesday  
5:45PM - 9:00PM

Online synchronous  
Zoom Meeting  
Follow the weekly  
content  
in D2L

Final Project due on  
11/22/2021 by  
11:59.

Brian Johnson  
BJOHN177@depaul  
.edu

Office Hours  
Virtual link  
Thursday  
7-8 PM CT by appt.

## Course Description

This course will provide a fundamental examination of metal. The course will delve into the pertinent metallurgy properties and structures, as well as the processes use to extrapolate and ultimately utilize the resource.

## Course Objectives

We will examine types, practicality, performance and finally the execution of the material. Projects will be completed through use of analog and digital methods to articulate the exercises.

## Learning Outcome

- o Understand and familiarize oneself with the different types of metals
- o Understand the various process refinement and manufacturing of metal alloys
- o Evaluate the appropriate choice of tools and their specific application
- o Understand the design implications of metal
- o Implement and explore through material experimentation

## Prerequisites

None

## Course management

[d2l.depaul.edu](https://d2l.depaul.edu)

## Tools and Materials

Tools: You should be able to utilize the IR lab for tools and as a workspace this quarter if campus remains open. *Items that you will need to purchase will have an \*after them.*

- o Tape measure
- o Triangle 45/90 or 30/60 at least 8" long (metal is preferable)
- o Drawing utensil
- o Protractor
- o Angle grinder \* or hacksaw
- o Drill and bits
- o Locking clamps \* and locking pliers
- o Sand paper (various grit) and scouring pads
- o Map gas torch \*
- o Brazing rod \*

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- o High heat resistant gloves
- o Wire brush
- o Acetone (for cleaning metal)
- o Clear eye protection
- o Aluminum stock \*

### Materials

Materials can be purchased at any hardware or campus depository (please contact Jayson Margulaus [jmargal@cdm.depaul.edu](mailto:jmargal@cdm.depaul.edu) for on campus material purchase details).

### Course structure

This class will consist of lectures and class discussions, reinforced by weekly design projects. Other than lecture/discussion time, classes will consist of regular group critiques, as well as lab time.

### Course schedule

Please refer to <https://academics.depaul.edu/calendar/Pages/default.aspx>.  
for drop and withdrawal deadlines.

### Attendance

The course is Online synchronous. This means there will be both synchronous and asynchronous components to this course. For the synchronous components, you will have Zoom Meetings during our scheduled class time Tuesdays. For the asynchronous components, you can progress through weekly content at your own pace. However, please keep in mind there will be weekly deadlines and assignments to complete. You must make sure that you have the necessary technical resources needed to access the course content and complete class activities. You will need: access to a computer that connects to the internet; a working email; the ability to access <https://d2l.depaul.edu/d2l/home/833766>.

You are expected to finish each week's tasks by the due date. Doing this will be equivalent to showing up to class prepared and on time. For the purpose of this class an absence is defined by the failure to participate in Voice Thread critiques, Zoom meetings and/or the failure to post your assignments by the due date. While the university has policies regarding excused absences (see below), there's no substitute for being present in discussions and critiques. If you miss the opportunity to you (and only you) are

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responsible for the content you miss when you're absent—make friends with someone early if you anticipate being absent later in the quarter. Failure to attend will result in a lack of participation, a lesser quality of work, and consequently a reduced grade.

### **Late work**

Late work will not be accepted. However, revision of work for a potentially improved grade will be permissible. So please turn in your work on time, even if incomplete, and revise it as necessary after it's due. The importance of these two skills cannot be overstated.

### **Classroom conduct**

Given the nature of our work, we'll be having discussions and lectures online. You are expected to participate in these exchanges in a frank and honest yet also respectful manner. Participation in critiques and reviews is not optional. You are expected to both comment on your peers' work as well as offer your work for feedback. When you're discussing someone else's work, treat them with respect. When someone else is critical of your work, don't take it personally. Our discussions should be challenging while never disregarding the dignity of each one of us.

### **Grading policies**

Final grades will be based on your projects, homework, as well as class participation.

- o Participation [25%]. Includes contributing to discussions; participating in critiques and design reviews; asking your peers for help, and offering help if you're able. Participation can only happen when you're engaged in the class online. Failure to be an active member of the class will result in a lower grade.
- o Projects [50%]. Will be evaluated based on craft (how well something is made), process (the path you took while making it), and concept (does it communicate an idea effectively). Take risks. Attempt things that seem beyond your reach. I'd rather you try and fail than not try at all. Working 'outside your comfort zone' is essential to growing as a designer and will have a positive impact on your grade
- o Assignments/Homework ( [20%]. These will reinforce material from class lectures or reading.
- o Quiz [5%]. Quiz's will be given on reading assignments this test your understanding of the provided reading material.

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### Grading scale

A	100–93	=====	A–	92–90		
B+	89–88	=====	B–	82–80		
C+	79–78	=====	C	77–73	=====	C– 72–70
D+	69–68	=====	D	67–63	=====	D– 62–60
F	59–0					

### Computer labs

Computer labs are available for your use outside of class. For schedule information, please check here:

[www.cdm.depaul.edu/Current%20Students/Pages/Labs.aspx](http://www.cdm.depaul.edu/Current%20Students/Pages/Labs.aspx).

You'll need to swipe into the rooms with your DePaul ID, so please be sure it's activated.

### Instructor availability

I'll be available on zoom during the week. My office hours are listed on this syllabus. It's important to realize that I encourage you to make use of my office hours. It's easy to get overwhelmed —don't let this happen to you! Ask for help early, ask for help often. If you're not free during my scheduled office hours, email me and we can probably set up another time.

### Communication

Email is the official method of communication for the course. I'll make every effort to reply to email in a timely fashion. If you don't get a reply within 24 hours, email again. Keep in mind, I have a different schedule than you—I get up as early as 5:00 am and go to bed as early as 10:00 pm. However, if you have questions about your work, it's always best to schedule a time to meet in person via zoom during my office hours. If my office hours don't work for you please schedule a time to meet with me via email.

### Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor

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and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Please see [resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx](https://resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx) for additional information.

### **Academic integrity and plagiarism**

This course will be subject to the university's academic integrity policy. More information can be found at [academicintegrity.depaul.edu](https://academicintegrity.depaul.edu). If you have any questions be sure to consult with your professor. This course will be subject to the university's academic integrity policy. More information can be found at [offices.depaul.edu/oaa/faculty-resources/teaching/academic-integrity/Pages/default.aspx](https://offices.depaul.edu/oaa/faculty-resources/teaching/academic-integrity/Pages/default.aspx).

### **Academic policies**

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incomplete can be found at: [www.cdm.depaul.edu/Current%20Students/Pages/PoliciesandProcedures.aspx](https://www.cdm.depaul.edu/Current%20Students/Pages/PoliciesandProcedures.aspx).

### **Incomplete Grades**

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at [www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx](https://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx).

### **Students with Disabilities**

DePaul University is committed to ensuring equal access to its educational and extracurricular opportunities for students with disabilities. The Center for Students with Disabilities (CSD) offers reasonable academic accommodations and services to support our students. We also serve as a resource to the many university departments that have a responsibility to accommodate students.

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Please see [offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx](https://offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx) for services and contact information.

*This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email*