Spring 2021

ME 438-102: Introduction to Physical Metallurgy

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ME-438

INTRODUCTION TO PHYSICAL METALLURGY

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Notebook Report


350-356 Ch-12; Q-S: 1, 2, 8, 15
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Review and Final Exam

Term Project, Component Design and Material Selection

Office Hours

Instructor will inform students of office hours in the class. In addition, office hours for individual instructors are posted in the ME Department office.

Update for remote / converged learning due to the SARS-CoV-2 virus: In place of typical in person office hours, office hours will be held using WebEx. Details will be determined and discussed in class. The WebEx link for classes and the office hours is https://njit.webex.com/join/samardzi

Repeat Students: Students repeating the course are required to repeat the entire course. Assignments, project reports cannot be transferred from previous semesters.

Exams: Two exams will be given. A midterm exam during week 8 of the semester and a final exam. Exams will be conducted online. For conflicts, we follow the NJIT policy for final exams provided online. The policy generally indicates that the course with the higher numerical value takes place during the regularly scheduled period.

The NJIT honor code will be upheld and any violations will be brought to the attention of the dean of students. All exams will be closed book closed notes. Only calculators are allowed during exams. Mobile phones, smart watches, headphones and similar electronic devices are expected to remain out of sight — the sight of a mobile phone, smart watch, or any other unpermitted resource during an exam results in a grade of F for the class. In addition, students are not allowed to wear hats during the exam. Failure to show for an exam results in a grade of zero and employment is not considered a valid reason for
missing an exam. The NJIT best practices related to academic integrity, indicates that makeup exams “should not be administered unless an unforeseen extraordinary circumstance . . . prevents a student from taking an exam at the designated time.” We adhere to that practice, and NO MAKEUP EXAMS WILL BE GIVEN, and only one appropriately excused exam absence accommodation is possible per semester per student. In case of an appropriately excused absence from the exam the student should write an email to the professor indicating that he/she is going to contact the dean of students office about their absence from the exam. The dean of students office may be contacted at dos@njit.edu. Those expecting official travel (i.e., athletes, academic conferences, etc.) must notify the professor and the dean of students office at least 2 weeks prior to the exam. In extreme cases (i.e., unforeseen sickness, death, etc.) the student must notify the professor and dean of students office within 48 hours after the originally scheduled. In the email sent to the dean of students office, students should at a minimum include the following: (i) name; (ii) ID number; (iii) course and section; (iv) professor’s name and email; (v) regularly scheduled exam time; (vi) valid evidence for the unforeseen extraordinary circumstance that caused absence. Upon receiving notice from the dean of students office, the professor will make a decision.

Typically, for final exams, if appropriately excused, a grade of incomplete is given if appropriate. For those students that will make use of the NJIT Office of Accessibility Resources and Services (OARS), please make note that OARS requires accommodation requests must be submitted no later than 3 business days prior to the exam date. However, if the instructors do not receive at least 2 business days notice, we cannot guarantee any OARS accommodation and the exam should be taken normally. Therefore, we encourage students that makes use of OARS accommodations to do so in a timely manner such that you are well before the deadlines.

**Homework:** Homework is assigned on the syllabus. The due dates for the HW will be one week after the delivery of the lecture on particular topic (chapter). Submission of HW will be through the Canvas: [https://canvas.njit.edu/](https://canvas.njit.edu/). Typically, the test date will be the final deadline for the homework problems related to the test material. Late submissions will be subject to deductions. Please, note and follow the deadlines in Canvas. HW is to be uploaded to canvas as a single PDF file.

**Update for remote / converged learning due to the SARS-CoV-2 virus:** Exam will be CLOSED BOOK – CLOSED NOTES and it will be conducted remotely online and require the will be assigned through the canvas Respondus LockDown browser coupled with a webcam. To make sure that everyone is well prepared, an ungraded practice exam will be given so that any technical difficulties may be worked out prior to the exam. A few general comments about online exams using the LockDown browser:
1. When it comes to showing your environment, please do so completely, include the entire room and your desk space, including under your desk. We are looking for phones, smart watches, other computers, other people, etc. If you do not show the room completely we must assume the worst, we are really looking. We have posted content on canvas to clarify the environment check and our expectations.

2. If you encounter technical issues, students must work through the IST Service Desk.

3. If you do not have appropriate hardware, students must contact the dean of students office, well before the exam date.

4. Scratch paper allowance will be announced prior to the exam.

5. The format of the online exam questions may not be the same as previous semester the face-to-face exam questions.

Lastly, instructors have neither the in-depth knowledge nor the admin rights to help resolve any technical issues. If issues arise, students must work through the IST Service Desk. Additionally, if you do not have the appropriate equipment, you must contact the dean of students office. Do not contact the instructor, he will only direct you to either the IST Service Desk or the dean of students office.

**Material selection Project and Report:** Project will be conducted in a group setting. One report submission is required per group. Fair participation of each group is required and it has to be documented by “Declaration of Contribution Document” during the semester and in the Project Report. Students who do not contribute fair amount of shared contribution to the project will not receive the grade share for the project. Project report is to be uploaded to canvas as a single PDF file. No late submissions of the Project Report will be accepted. Due dates for all assignments will be posted on Canvas.

**Note:** Plagiarism checks are in place for project reports, when an excessive amount of plagiarism is found, a grade of zero will be given for that project report. In addition, experience has shown that a scan or other image saved as a PDF is not readable for a plagiarism check. Accordingly, such files are also deemed unacceptable and given a grade of zero since they cannot be evaluated consistently with the rest.

No resubmissions will be considered, even if uploaded to Canvas, past the due date, or once graded, whichever comes first. Prior to the due date, or any grading performed, students may resubmit to fix their work. Past experience shows that a resubmission uploaded after the due date will only lower the score previously given. This is due to the automatically computed late policy.

Lastly, past experience has shown a few students will knowingly submit an entirely incorrect document in an attempt to circumvent the policy that the lack of a submission
leads to a failure. Professor is the only person responsible to determine if a report was submitted in good faith or not. A report that has been deemed submitted not in good faith will be marked as if it were never submitted.

**Update for remote / converged learning due to the SARS-CoV-2 virus:** For the lectures attendance, the following items will help clarify what we are doing and what is expected of students of ME438. Some of the items below seem obvious, but they serve to clarify any conflict with the text in prior face-to-face versions of the syllabus.

1. The course will be delivered in online synchronous mode for the Fall 2020 semester.

2. Online attendance of students is desired for successful outcome of the course.

**Grading:** Note that late assignments, reports, etc., will not be accepted after the last day of class for the semester (i.e., the university wide last day of class, not the last day of lecture for your section). The weights shown below will be used in determination of the final course grade. Alongside are the letter grades and their corresponding description as written in the university undergraduate academic policy.

- Final Exam: 35%
- Material Selection Project Report: 30%
- Homework and class participation: 10%
- Midterm Exam 1: 25%

**NJIT university undergraduate academic policy letter grades:**

- A Superior
- B+ Excellent
- B Very Good
- C+ Good
- C Acceptable
- D Minimum
- F Inadequate

Also, note that external factors (such as level of effort, ability in other courses, time management, etc.) are typically not considered in the computation of grades.

Any disagreement over grades must be brought to the attention of the instructor no later than the first two weeks of the following semester, grades will not be altered after that.
Further, final grades are typically not discussed via email, an appointment should be made.

**Update for remote / converged learning due to the SARS-CoV-2 virus:** Please note that although the health crisis has altered typical instruction, this course still maintains the same expectations and rigor employed during normal times.

**Requirements for students:** Prior to the start of the class period, student is advised to read the topics, which are scheduled for instruction for that class period. This practice raises odds to excel in the course. Employment is not considered a valid reason for missing an exam, or any compulsory portion of the class. If you feel you are not going to pass this course, please reach out to your instructor with adequate time before the drop date.

**Update for remote / converged learning due to the SARS-CoV-2 virus:**

- Instructors – There are no more exam booklets for the online exams.

- Students – Verify that you are able to take the online exams with ample time prior to the exam (make sure to take a practice exam sufficient time before the exam to make sure that you have everything in working condition).