

Syllabus
ME 3760
Diffusion and Kinetics

Spring 2020
Wright State University
Department of Mechanical and Materials Engineering

Instructor: Dr. Nikolai V. Priezjev
430 RC, Phone: 775-3214, nikolai.priezjev@wright.edu
Monday and Wednesday, 7:40 pm - 9:00 pm, Russ 302
Office Hours: MW; 5:00-6:00 pm, or by appointment

Text: Phase transformations in metals and alloys (Third Edition),
By: Porter, Easterling, and Sherif (CRC Press, 2009)

Course Contents Include:

- Microstructure and Thermodynamics
- Diffusion
- Interfaces and Microstructure
- Solidification
- Overall Transformation Kinetics-TTT diagrams

Grading: Homework 20%, Term paper: 10%, Midterm Exam: 35%, Final Exam: 35%
(Final exam is not accumulative)

Attendance is required

Midterm Exam: to be determined

Final Exam: Wednesday, April 29, 2020 time: 8:00 p.m. - 10:00 p.m.

<http://www.wright.edu/raiderconnect/registration/exam-schedules#Spr2020>

- Exams will be closed book/notes; only one side of a letter-size equation sheet is allowed.
- Term paper will be on a recent topic related to the course material. The topic is suggested by the student and approved by the instructor. A hard copy report and short oral presentation will be due on the last day of class.
- Students are expected to attend all lectures. If absent, it is the student's responsibility to catch up the material covered. No late exams/make-ups or quizzes will be allowed except in case of verifiable emergency.