The University of British Columbia Faculty of Applied Science

Department of Mechanical Engineering

MECH 392 – "Manufacturing Processes"

2 Credits / [2-0-0]

OBJECTIVES: This course covers the introduction of a wide variety of industrial processes that

transform materials into discrete parts. The lectures focus on the basic principles of these processes and their relative advantages and limitations. Students will develop a solid understanding on the fundamentals of discrete part manufacturing

through lectures, assignments, and a term project.

PREREQUISITE: Successful completion of the Mech 2 program.

TOPICS: 1. Introduction to Manufacturing

2. Metal Casting

3. Molding of Plastics4. Powder Metallurgy5. Metal Forming

6. Sheet Metalworking7. Metal Cutting Basics

LECTURES: 2 lecture hours per week: Mondays, 2:00-3:00 pm, Swing 222; Wednesdays, 2:00-

3:00 pm, MacLeod 228

TEXT: Groover, M. P., Fundamentals of Modern Manufacturing: Materials, Processes,

and Systems, 5th Edition, Wiley, 2013

EVALUATION: The course grade will be determined according to the following:

Assignments 10%
Term Project 15%
Quiz (closed book) 15%
Final Examination (closed book) 60%

INSTRUCTOR: Professor Hsi-Yung (Steve) Feng

CEME 2067

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NOTE: The items listed above are subject to adjustments and changes as needed.