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## **Machine Design Analysis**

ME 356

University of Washington, Seattle

Winter Quarter 2015

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**Location:** Communications Bldg. 120 (Lecture)                      **Time:** 9:30-10:50am TTh (Lecture)  
Mueller Hall 153 (Recitation)    2:30-5:20pm Th (Recitation)

**Instructor:** Nathan J. Sniadecki                                      **Phone:** 206.685.6591  
MEB 318    **e-mail:** nsniadec@uw.edu

**TAs:** Kevin Beussman                      beussk@uw.edu  
Marita Rodriguez                      maritar@uw.edu

**Website:** <http://courses.washington.edu/nsniadec/ME356/W15>

**Description:** Analysis, design, and selection of mechanical and electromechanical subsystems and elements, such as gears, linkages, cams, motors, and bearings.

**Prerequisites:** ME 354 – Mechanics of Materials Laboratory

**Textbook:** Budynas, R. G. & Nisbett, J.K., 2014, *Shigley's Mechanical Engineering Design, 10<sup>th</sup> Edition*, McGraw Hill, Upper Saddle Ridge, NJ (ISBN: 0131863126)

**Grading:** Assignments (20%), Exam 1 (20%), Exam 2 (20%), Exam 3 (20%), Final Project (20%)

### **Course Policies:**

*Lectures:* Please consider the learning mission of the course and refrain from activity that is disruptive during the lectures.

*Recitation:* Problems will be assigned during recitations in Mueller 153. With the assistance of the TAs, you will work through the problems and turn them in at the end of recitation. You will receive credit or no credit for your work.

*Absence/Sick:* If you will miss a recitation session, you will need to make arrangements with the TAs within 24 hours.

*Exams:* Exams will be given on weeks 3, 7, and 10 during recitation session. Only under proven and extraordinary circumstances will a makeup exam be permitted. Textbook and engineering calculators are permitted.

*Project:* You will work as a group of four on a final project. You will present your project during the time assigned for the course's final exam (no exam).

There is zero-tolerance for cheating. Please refer to UW's Student Conduct Code.

<http://www.washington.edu/students/handbook/conduct.html>