ME 4300 Design Project
Summer 2018

Due – Via electronic submission on or before noon on June 26, 2018

Design a weight-driven, mechanical clock.

CAD and assembly drawings and construction details of:
- Driving works
    - Barrel
    - Driving weight
    - Winding mechanism
- Going Train
    - Number, arrangement and all details of the wheels and pinions of the going train
- Escapement
    - Pendulum - parts and adjustment details
    - Diameter and number of stops of a Graham deadbeat escape wheel
- Motion works
    - Number, arrangement and all details of the wheels and pinions of the motion works
    - Details of the connections to the minute and hour hands
    - Clear description of how the clock time is set
- Supporting plates, including details of how motion is transmitted through the plates

Calculations:

Excel file showing the forces on each pinion and wheel within the clock, and the expected performance of the clock. Design your clock so there is a reasonable chance it can run within ± 10 sec/week.

Design Groups:

Group 1	Group 6

Group 1
Arszylo, Marcin
Dutta, Bidisha
Gregory, Frank R.
Hillman, Michael J.

Group 2
Barkho, Amelio R.
Fasse, Jonathan P.
Graziani, Anthony J.
Sanders, Andrew A.

Group 3
Huyssen, Michael
MacFarlane, Shane R.
O'Rourke, Aidan M.
Zhang, Yunxiao

Group 4
Hou, Jiayu
Joya, Shitara S.
Rasi, Viktor
Walters, Kyle K.

Group 5
Locher, Pierce K.
Solomon, Matthew C.
Warner, Nicholas R.
Wellman, Travis R.

Group 6
Guo, Bicheng
Jelsone, Andrew D.
Piper, Ryan
Redoute, Joshua

Group 7
Blodgett, James L.
Phillips, George J.
Puckett, Cody B.
Ren, Yiyang

Group 8
Isenberg, Lee
Khella, Chantelle A.
Kosnik, Paul J.
Miller, Joseph G.
Yang, Yang

Group 9
Cali, Armando
Hunter, Dane M.
Kussrow, Dennis D.
Snyder, Daniel G.
Venturini, Matthew P.