

Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: EGT–231-01 Mechanics (3 credits)

INSTRUCTOR: Olu Bamiduro, Ph.D.

SEMESTER/ YEAR: SPRING/ 2018

COURSE DESCRIPTION:

This course uses the principles of statics to solve engineering problems that involve forces. Topics include finding reactions, equilibrium, friction, trusses, frames, centroids, and moment of inertia.

TEXTBOOK (REQUIRED):

Statics and Mechanics of Materials, Hibbler, Pearson 5th Edition, ISBN# 0-13-438259-5

STUDENT LEARNING OUTCOMES:

EGT 136 – Mechanics is the first course in a sequence of courses that includes EGT 231 – Strength of Materials followed by EGT – 234 Machine Design. It is projected that 80% of the students enrolled in this course will continue on to complete the sequence of courses in the Mechanical Engineering Technology program.

TOTAL HOURS REQUIRED FOR THIS COURSEWORK:

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at **LEAST** 2 hours of coursework outside of class for each hour of in-class coursework.

	Direct Faculty Instruction (In Class) 37.5 Hrs. Required	Student Work (Out of Class) 90 Hrs. Required
Lecture	20 Hours	
Online	17.5 Hours	
3 Exams (2 Tests and Final Exam)		12 Hrs. Prep
8 Homework Assignments		60 Hrs.
Other Instructor Material		18 Hrs.

Services for Students with Disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530

Revised 01/03/2018