

Webster University
Course Syllabus

SCIC 5320.01

Mechanics For School Personnel
Robert S. Mullgardt, Instructor

Fall 2004

Class Location:
Clayton High School
#1 Mark Twain Circle
Clayton, Mo. 63105

Class Times:
Tuesday 5:30 - 8:30
Physics Room 224

Course Description

Mechanics For School Personnel will focus on motion, Newton's Laws, and energy. Conceptual and mathematical models will be developed from observation and analysis of experimental data. No text book is required.

Learning Outcomes

The student will deepen their understanding of the relationships between force, mass, motion, and energy.

The student will perform experiments, analyze data, and construct conceptual and mathematical models of motion, forces, and energy.

The student will learn instructional strategies including management of classroom discourse, design and use of student evaluation instruments, and appropriate use of technology in the classroom.

The student will increase understanding of science content, pedagogical philosophy, and instructional techniques through participation in laboratory experiences and related discussions.

Evaluation

The course grade will be calculated by the following percentages:

50% Classwork including written analysis of laboratory investigations and assigned materials.

50% Periodic short quizzes and summary tests.

Expectations

The content of this course builds sequentially. Therefore, regular attendance is expected in order to be able to achieve a coherent understanding of the content.

Participation in all laboratory investigations and discussions.

Contacts

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Calendar

Tuesdays August 24
31
September 7
14
21
28
October 5
12
19 (NO CLASS Fall Break)
26
November 2
9
16
23
30
December 7
14