

Milwaukee Area Technical College
RECESS PROJECT PROPOSAL

Name RON KURTUS

Social Security # _____ Date 19 APR 96

Division LIBERAL ARTS AND SCIENCES DIVISION

Department NATURAL SCIENCE DEPARTMENT

Recess Period SUMMER 1996

Project Title ESTABLISHING ANALYTIC SKILLS THROUGH PHYSICAL SCIENCE EXPERIMENTS

Project Type

- ☐ new program
- ☐ new course
- ☐ new methodology
- ☐ development of materials
- ☐ other

Intended User/Audience

- ☐ instructors
- ☒ students
- ☐ support personnel
- ☐ other

Project Description (20%) - What is the purpose of this project? What outcomes do you expect to achieve?

The purpose of this project is to establish students' analytic skills through physical science experiments. This will be done by developing a teacher's guide of tested experiments (and perhaps a lab manual) needed to enhance course 806-231 *Physical Science Survey* with an added laboratory period. There would also be the option of having the lab as a separate course.

The outcome expected from this project is that the material developed will provide the students a framework for gaining skills in performing experiments, taking data, analyzing the data, and drawing conclusions.

MATC Mission (20%) - How does this project support the mission of MATC?

The MATC mission is supported in that the students will gain process, measuring, and analytic skills through participating in the proposed lab experiments, such that they will be better suited to excel both academically and in the workplace.

Value (20%) - Of what value is this project to students? to instructors? to the community?

The added skills of taking data from experiments they perform, analyzing that data, and drawing conclusions are important for students to excel in higher level science courses and to succeed and advance in the workplace, to their benefit as well as the community's.

Instructors would have valuable guide to assist in for hands-on learning by the students. The added laboratory time would also provide a more complete and satisfying teaching experience.

Uniqueness (20%) - In what way is your project unique, innovative, or creative?

Presently, students are learning scientific facts and achieving understanding of the concepts. What is lacking is any real kinesthetic learning.

This project establishes hands-on applications of course material through tested experiments that relate specifically to the MATC students' future work environment.

Application (10%) - Does your project have a practical application or outcome? Please explain.

Students will be able to have better understanding of scientific principles and gain better skills in applying data analysis techniques. These skills can be readily applied in the workplace.

Urgency (10%) - Is there an immediate need for your project? Please explain.

Students are presently taking higher level science courses or leaving MATC without proper preparation in the area of disciplined experimentation, data taking, and analytic knowledge. These skills are essential, and the need for them should be immediately fulfilled.

Evaluation - To whom and when will the project be submitted?

I agree to a blind review of this project by a school-wide committee of faculty and administrators. If awarded, I agree to complete this project as specified above.

Signature of applicant _____ Date _____

I verify that I have reviewed and approved the submission of this proposal.

Signature of dean or designee _____ Date _____

Milwaukee Area Technical College

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Date: May 20, 1996
To: Ron Kurtus
From: Dan Burrell
Re: Recess Project - New materials for Physical Science course

I am very pleased that your recess project has been approved for Summer 1996. You have been awarded 4.5 days at class and step as per contract language for a course revision, basic process.

Please arrange to meet with the associate dean of your instructional area to discuss the scope, expected outcomes, time line, and completion date of your project.

Upon successful completion of your project, please submit to your associate dean for approval and payment.

Congratulations! I believe that this curriculum work is very important to our division and is consistent with our goal to improve the quality of instructional delivery within the college.

Please detach and return to the associate dean of your instructional area by May 27, 1996.

X I accept the opportunity.

_____ I decline the opportunity.

Ron Kurtus
Name

21 May 96
Date

Social Security Number