

Adv Tech 2010-11

Fabrication/Welding - Video/interactive curricular materials - #3

Summary:

Purchase of video and/or interactive materials-services to augment instruction of existing courses, esp. metallurgy.

Description

Video and interactive materials may permit the teaching of metallurgy and related subjects to several disciplines (welding, manufacturing, drafting) at the same time achieving a significant economy of staff time.

Other video materials would be used to reduce part-time staffing requirements currently required in teaching 'stacked classes'.

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

- 1. How does it continue the achievement of those goals?**
- 2. If this is a continuation of an initiative started last year, make sure that relationship is clear.**

How is this initiative linked to the efficiencies and productivities plans you had last year?

- 1. How does it continue the achievement of these plans?**
- 2. If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.**

The program placed this initiative as priority #2 last year. It was linked to improving program efficiencies.

This initiative was not funded last year, however, it continues to represent a program efficiency that could be achieved (see -Full description of the Initiative).

Describe the resources needed:

Materials & Supplies

*1 Metallurgy Video Set (\$3000 each)

*1 Welding Video Set (\$1000 each)

Funding: Carl Perkins

Curriculum Development

30 hours of curriculum development to revise WLD 105 curriculum

Funding: Carl Perkins/Curriculum Development

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

Regarding metallurgical video two desired outcomes are: 1) To be able to provide instruction for three disciplines, Manufacturing, Drafting, Fab./Welding, using one instructor and one time period, and 2) to free time for the instructor to teach other curriculum during this same time period.

Regarding other welding classes the primary desired outcome is that less, or no, part-time instructional staff would be required to assist during initial phases of 'stacked offerings' of welding classes.

Department Priority:

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Unit Resources:

There are no unit resource available.

Funding Request: Carl Perkins

Is this a Career & Technical Education program approved by the state and offered through Lane for credit?

Yes

If not a Career & Technical Education program, does your request provide considerable support for students enrolled in these programs?

Yes

Do you have an advisory committee that meets 2-3 times per year?

Yes

If request is for personnel, will funds be used to replace an existing position?

How will funding this initiative increase or sustain the academic achievement and technical skills attainment (GPA of 2.0 or better) of Career and Technical Education students?

This initiative will allow students, on largely an independent study/ self paced basis, to study and be tested on technical materials including metallurgy and welding technology. Students will be able to review as many times as needed technical materials presented in videos before and after assessment. These features should enhance learning.

How will funding this initiative increase or sustain the number of CTE students that graduate or receive a one year certificate from Lane and help prepare the students for employment?

This initiative will improve access to educational materials, allow for repeated viewing of educational presentations as needed, and provide visual presentations of equipment and materials not otherwise available.

EQUIPMENT \$

4000

COMPUTER HARDWARE \$

COMPUTER SOFTWARE \$

MATERIALS & SUPPLIES \$

CURRICULUM DEVELOPMENT (Hours)

30

PART-TIME FACULTY \$

TIMESHEET STAFF \$

TRAVEL \$

Can this initiative be partially funded?

No

EQUIPMENT \$

(E) Explanation of effect of partial funding:

COMPUTER HARDWARE \$

(CH) Explanation of effect of partial funding:

COMPUTER SOFTWARE \$

(CS) Explanation of effect of partial funding:

MATERIALS & SUPPLIES \$

(MS) Explanation of effect of partial funding:

CURRICULUM DEVELOPMENT (HOURS)

(CD) Explanation of effect of partial funding:

PART-TIME FACULTY \$

(PF) Explanation of effect of partial funding:

TIMESHEET STAFF \$

(TS) Explanation of effect of partial funding:

TRAVEL \$

(T) Explanation of effect of partial funding:

Funding Request: Curriculum Development

1. List the following information

- **Course Numbers (titles if not currently offered)**
- **Instructor Name(s) who will work on the curriculum development**
- **Whether each of the courses is in, or has been through, the curriculum approval process**

Course Numbers: WLD 105

Instructor Name: Mark Huntington

This has been through the curriculum process

2. List each course number (or title) and the materials to be created for each class

- **Instructional goals, objectives, syllabi and outlines**
- **Lab instruction packets**
- **Practice, quiz, presentation &/or demonstration materials**

- **Other (specify)**

WLD 105 Fifteen tests based on metallurgy videos requested in this initiative will be created.

3. List each course number (or title) and give your timeline for beginning and completing each course curriculum development.

WLD 105 Approximate start time: 6/08 Approximate completion: Fall 2010

4. What are up to 3 departmental instructional goals that are met through the development of curriculum in each class?

Create effective assessment tools for upgraded curriculum.
Improve instructional efficiency through self-paced, independent study format.

5. List each course number (or title) and give the value of the development of curriculum in each course to other faculty members.

WLD 105 This initiative will allow for more flexibility of instructor time that can be applied to other teaching responsibilities.

6. List each course number (or title) and say how many students will be served by the development of curriculum in each class.

WLD 105 This course currently serves approximately 16 students per year. If approved this initiative may more than double enrollment in this course owing to its new format that would enable accommodation to Drafting students requiring this material.

7. List each course number (or title) and give the specific benefits to students that you expect from the development of curriculum in each class.

WLD 105 Specific benefits:

- *Self paced instruction
- *Independent study
- *Video presentations including demonstrations of principles using equipment not otherwise available to the course
- *Student having access to as-needed reviews of lectures and demonstrations.

8. List each course number (or title) and give the specific benefits for diversity that you expect from the development of curriculum in each class.

WLD 105 Specific benefits:

- 1) Self paced instruction
- 2) independent study
- 3) video presentations including demonstrations of principles using equipment not otherwise

available to the course

4) student having access to as-needed reviews of lectures and demonstrations.

9. List each course number (or title) and give the specific benefits to sustainability that you expect from the development of curriculum in each class.

WLD 105 This initiative would create instructional and fiscal efficiencies. With much material required by this course being available through video format more students having diverse schedules will be able to access course information while the instructor will benefit from a more flexible schedule freeing time to provide other instruction. Efficiencies of this type economies that are more sustainable.

10. List each course number (or title) and give the specific effects on distributed learning that you expect from the development of curriculum in each class.

WLD 105

Hours requested for Curriculum Development funding:

Please enter the amount of one of the following:

- **100 hours maximum for new development.**
- **70 hours maximum for course revision**
- **50 hours for 3-4 credit conversion**
- **other (use if multiple courses addressed in one initiative**

Do not enter any characters other than numbers and a decimal.

How many hours are you requesting? If there are multiple courses addressed in the initiative, please list each course number (or title) and give the number of hours requested for each course.

30

Can this initiative be partially funded?

No

Partially funded curriculum development HOURS requested:

Explanation of effect of partial funding:

Funding Request: Technology Fee