

Adv Tech 2010-11

Electronics - Technology Online #2

Summary:

Develop additional online classes for the Electronic Technology Program.

Description

Provide curriculum and hardware necessary to conduct several additional Electronic Technology Program classes online.

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.**

This upgrade is consistent with our plans to increase enrollment through distance learning. The development of online classes will increase the offerings that are available online. This, in turn, increases enrollment by expanding the geographic limits of our student base. We successfully increased enrollment through added online classes. Adding more classes is a continuation of this effort. Higher enrollment and student to teacher ratios have been improved through the previously developed online classes. Continuing the development of online classes will improve those efficiencies even further.

By receiving funding for this project, we could continue developing online classes and continue to improve efficiencies. Last year, we developed three online classes. We will continue to develop additional online classes.

Describe the resources needed:

24 lab kits @ \$500 per lab kit = \$12,000
5 classes @ 100hrs/class = \$19,123 + OPE

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.

5 additional online classes will be available for student use before fall term 2011.

Department Priority:

14

Unit Resources:

There are no unit resources available. If funded classes will be developed by Electronic Technology instructors.

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?

By adding online classes, our program becomes more accessible to non-traditional students. This is one more mechanism to reach out and support the community needs for technical education.

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?

Many students cannot access traditional campus classes because of scheduling and/or transportation considerations. This brings the class to the student and helps prepare them for employment in a technical field.

EQUIPMENT \$

12000

COMPUTER HARDWARE \$

COMPUTER SOFTWARE \$

MATERIALS & SUPPLIES \$

CURRICULUM DEVELOPMENT (Hours)

500

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**

ET145 Semiconductor Devices 1
ET146 Semiconductor Devices 2
ET229 Motors
ET234 Programmable Controllers
ET232 Process Controls Systems

Doug Wiess 463-5890

All are approved courses.

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)**

Instructional goals, objectives, syllabi and outlines

Lab instruction packets

Practice, quiz, presentation &/or demonstration materials

Impacting the following courses:

ET145 Semiconductor Devices 1
ET146 Semiconductor Devices 2
ET229 Motors

ET234 Programmable Controllers
ET232 Process Controls Systems

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

ET145 Semiconductor Devices 1
ET146 Semiconductor Devices 2
ET229 Motors
ET234 Programmable Controllers
ET232 Process Controls Systems

To be offered Fall 2010.

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

Meet existing unmet demand for online instruction and to attract new students, including high school students and working adults. Through online instruction, course can be offered during additional terms, summer and fall, for expected student increase.

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

Online delivery can be used by any qualified Electronics instructor, allowing flexibility and ease of offering courses to meet demand.

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

Anticipate 40 new students per year.

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.

The accessibility of alternate online instruction method provides universal access to students of all abilities.

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.

This delivery method eliminates the need for paper, additional classroom space, transportation of individual students, and thus significantly reduces carbon impact.

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.

The accessibility of alternate online instruction method provides universal access to students of all abilities.

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.

100 hours for ET145 Semiconductor Devices 1
100 hours for ET146 Semiconductor Devices 2
100 hours for ET229 Motors
100 hours for ET234 Programmable Controllers
100 hours for ET232 Process Controls Systems

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.

500

Can this initiative be partially funded?

No

Partially funded curriculum development HOURS requested:

Explanation of effect of partial funding:

Funding Request: Technology Fee