Initiative Report for Adv Tech 2009-10

Lane Aviation Academy/Flight Technology - GPS Ground School

Summary:

Develop and write new ground school curriculum for GPS instruction, which will include CNX 80, MX20 and Garmin 1000 syllabus. This will be a one (1) credit class.

Description

Flight department will contract a flight instructor to develop a structured training course to include GPS computer simulator lessons, classroom/computer exercises, weekly quizzes and an end of course exam.

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.**

Curriculum Development funds have been part of the Unit Plan every year however, funding is not always received.

Our departmental goal is to keep the curriculum current to industry standards and community interest. It augments our student flight lesson tasking and provides an avenue for the general public to acquaint or improve their GPS background.

This aligns with funding received last year with the rewriting of the Training Course Outline (TCO). Once approved by the FAA, the TCO incorporates new technology such as GPS navigation systems in our aircraft. The new GPS ground school will be offered as both a credit and non-credit class, will give students an opportunity to learn GPS operating systems prior to introduction in the aircraft environment.

Alignment of curriculum within industry standards. Updating of the TCO to include GPS instruction last year was with the clear intention of increasing the productivity of each lesson and making efficient use of instructor time. Developing and offering a GPS instructional course will further enhance student and staff productivity.

Describe the resources needed:

Curriculum Development

- 1 Curriculum Development 100 hours w/ope (4,384.21 each)

Request: Curriculum Development 100 hours (CD) $4,384.21

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.

1) Students will be trained on technology utilized throughout the aviation industry, which will increase employability,
2) increase student enrollment (FTE) by offering this class as credit, non-credit and perhaps as RTEC. As well, we could incorporate this curriculum into our summer academy for high school students,
3) enhance current curriculum (TCO).

Measurable outcome will be increased FTE and student evaluation of the course, curriculum and instructor,

Department Priority:

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Unit Resources:

No division funding available.

Funding Request: Carl Perkins

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**

GPS Ground School
Bruce Gustafson will assign and supervise development.
No it has not been through the curriculum approval 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)**

Instructional goals, objectives, syllabi and outlines Training Course Outline to include at least but not limited to Enrollment Pre-requisites, Course Objective, Syllabus of Subject and Sequence Lab instruction packets will be created. Individual lesson assignments in the form of handouts and interactive computer software tools providing equipment familiarity and operation training.
Practice, quiz, presentation &/or demonstration materials. Prepare a set of weekly quizzes for progress analysis. Prepare end of course exam.

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

GPS Ground School Begin development in the month approved. Completion within 11 weeks.

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

Staff Training, Curriculum upgrade, Increase enrollment/FTE

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

GPS Ground School: Of the 15 faculty in the dept. just one has had formal GPS ground school training. Approval of this course allows rapid instructor currency of material used in our student training.

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

GPS Ground School: 40 students

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.

GPS Ground School: Students better able to relate to the flight TCO tasking. Faster learning curve. Increased morale. Corporate job interview advantage.

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.

GPS Ground School; Faster and more thorough transition through the flight training course. Job interview advantage. Confidence & increased morale.

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.

GPS Ground School: Current technology, modern sophisticated equipment attracts vocational interest. Increased enrollment/FTE.

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.

GPS Ground School: This class would be a good internet class. Employed individuals High School students and others unable to meet class times could complete the course.

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.

100

Can this initiative be partially funded?

No

Partially funded curriculum development HOURS requested:

Explanation of effect of partial funding:

Funding Request: Technology Fee