

# **Adv Tech 2010-11**

## **Automotive - Youth Educational Systems AYES partnership - #3**

### **Summary:**

Develop a partnership among participating automotive manufacturers, automotive dealers, and high schools/tech prep schools. Together they can contribute to the professional development of young people.

### **Description**

Becoming AYES certified. AYES is a nationally recognized youth mentorship and educational consortium. Becoming AYES certified will develop a partnership among local participating automotive manufacturers, automotive dealers, and high schools/tech prep schools. Together we can contribute to the professional development of young people.

### **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.**

It is linked to goal #1 of this 09-10 and goal #3 of 08-09 in that it will help the program acquire state of the art training aids, vehicles and tools as a benefit of the AYES partnership. This is will help insure that our training facility remains on the cutting edge of the ever changing technology which was goal #3 of 08-09. By remaining at the forefront of industry standards we will insure that our facility continues to provide the best possible educational experience while remaining competitive with other vocational schools. It is linked to goal 2 of 08-09 in that it will Make our program accessible to students by allowing for an alternative educational path for high school students who are serious about a career in the automotive field.

It will help insure that our training facility remains on the cutting edge of the ever changing technology which was goal 3. It will Make our program accessible to students by allowing for an

alternative educational path for high school students 2. It will help the program acquire state of the art training aids, vehicles and tools as a benefit of the AYES partnership 1.

**Describe the resources needed:**

**Curriculum Development**

- 280 Curriculum Development (10,709 each)

***Request:*** Curriculum Development 280 hours (CD) \$10,709

**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.**

AYES Can Benefit Lane Community College, the Students it serves and the Local Community

\*Aligns learning with both short-term goals and long-term goals.

\*Raises students' expectations of themselves.

\*Provides new strategies for continuous evaluation and measurement of success.

\*Forging strong partnerships with community leaders and business owners.

\*It will increase graduates employability

\*It will forge stronger bonds between business partners, advisory committee members, students and Lane Community College

**Department Priority:**

21

**Unit Resources:**

There are no unit resources 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**

The Automotive curriculum would be enhanced by the following:

\*By aligning learning with both short-term goals and long-term goals.

\*By raising students' expectations of themselves.

\*By providing new strategies for continuous evaluation and measurement of success.

\*By providing students with mentors at an earlier stage in education

\*Providing access to current information on the latest available automotive service techniques and equipment.

\*Strengthening Lane's ability to procure state-of-the-art equipment, tools and facilities through ongoing involvement with the Business and Education Council, and enhancing the ability to procure donated non-saleable vehicles and components from auto manufacturers.

\*Stimulating greater enrollment in the automotive program by enhancing the Lane's reputation in the eyes of the community, including educators, "feeder school" counselors, parents and students.

Enhancing Lane's ability to demonstrate the academic and technical education requirements of today's automotive careers to various groups from kindergarten to adult.

Courses Impacted:

AM 143 BRAKES

AM 145 ENGINE REPAIR,

AM 147 SUSPENSION AND STEERING,

AM 149 MANUAL DRIVE TRAINS AND AXLES

AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES

AM 246 ENGINE PERFORMANCE

AM 246 HEATING AND AIR CONDITIONING

Faculty : Egan Riordon 463-5092

Yes courses are established but would need to be modified

## **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)**

Courses Impacted:

AM 143 BRAKES

AM 145 ENGINE REPAIR,

AM 147 SUSPENSION AND STEERING,

AM 149 MANUAL DRIVE TRAINS AND AXLES

AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES

AM243 ELECTRICAL AND ELECTRONIC SYSTEMS

AM 246 ENGINE PERFORMANCE

AM 246 HEATING AND AIR CONDITIONING

Courses would be modified to align with AYES standards.  
Instructional goals, objectives, syllabi and outlines  
Lab instruction packets  
Practice, quiz, presentation &/or demonstration materials

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

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

Begin upon approval and complete by fall of 2010

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

The Advanced Technology Division provides professional technical training to prepare individuals for the rapidly changing demands of "high tech" industries. Every Advanced Technology program offers "hands on" experience in business, industry and government agencies.

To prepare the graduate for employment as an automotive service technician working at company-owned repair stations, fleets, independent garages, gas stations, or new car dealerships.

To efficiently and confidently diagnose and repair current vehicles using advanced diagnostic tools and equipment.

To successfully complete ASE certification and become nationally recognized for their training efforts.

To be able to demonstrate and use industry safety standards and practices.

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

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES

AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

Egan Riordon 280 hours

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

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

168 Students plus up to 30 new students possibly 198 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.**

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

AYES Can Benefit students by:

- \*Align learning with both short-term goals and long-term goals.
- \*Raises students' expectations of themselves.
- \*Provides new strategies for continuous evaluation and measurement of success.
- \*Forging strong partnerships with community leaders and business owners.
- \*Providing access to current information on the latest available automotive service techniques and equipment.
- \*Strengthening Lane's ability to procure state-of-the-art equipment, tools and facilities through ongoing involvement with the Business and Education Council, and enhancing the ability to procure donated non-saleable vehicles and components from auto manufacturers.
- \*Stimulating greater enrollment in the automotive program by enhancing the Lane's reputation in the eyes of the community, including educators, "feeder school" counselors, parents and students.

**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.**

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

Allow High school students to earn college credit and continue their education at Lane or find a job immediately out of the AYES training center (LCC). By introducing them to the work force and mentors at a young age they can make an educated decision on whether they are ready to start a career or pursue higher education.

**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.**

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

The earlier that we can educate students and technicians the sooner they can learn about sustainable job practices. By exposing people to on the job learning and mentorship they can see what it take to run a sustainable business.

**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.**

AM 143 BRAKES  
AM 145 ENGINE REPAIR,  
AM 147 SUSPENSION AND STEERING,  
AM 149 MANUAL DRIVE TRAINS AND AXLES  
AM 242 AUTOMATIC TRANSMISSIONS AND TRANSAXLES  
AM243 ELECTRICAL AND ELECTRONIC SYSTEMS  
AM 246 ENGINE PERFORMANCE  
AM 246 HEATING AND AIR CONDITIONING

The learning will be distributed through Moodle, the interactive computer lab with in the

Automotive building, through traditional lecture and lab periods as well as hands on demonstrations and projects.

**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.**

280

**Can this initiative be partially funded?**

No

**Partially funded curriculum development HOURS requested:**

**Explanation of effect of partial funding:**

**Funding Request: Technology Fee**