PROGRAM REVIEW 2008-2011

Division: Applied Technology

Department or Program: Automotive Technology

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In providing responses in the following areas**, please utilize the quantitative data available in the Program Review Enrollment Data Document and the Budget Document.** For the purposes of the Program Review, both departments and programs will be referred to as "program."

I.   **Description and Mission of the Program**

Which area(s) does this program considerably address (check all that apply):

_X_ Basic Skills   _X_ Transfer   _X_Career/Technical   ___Other
(describe)

A. Provide a brief description of the program including any services provided and the program's mission.

The mission of the De Anza College Automotive Technology Program is to inspire, excite, and train our automotive technology students to achieve a valuable place in our local and global community; by serving a widely diverse student population including career oriented students, lifelong learners, and those who choose our program to enrich their own knowledge base. We do this by focusing on integrity, personal achievement, service to our community, and excellence in all we do.

- The Automotive Technology Program educates and trains approximately 650 students per quarter.
- We are an authorized Toyota Motor Corp. T-TEN training school.
- We are an authorized automotive mechanics union training center.
- We provide services to three local high schools with whom we have articulation agreements with.
- We provide services to the county regional occupation program (ROP).
- We are an authorized State of California smog check training center.

B. Provide a summary of the program's main strengths.

- Highly motivated and dedicated faculty and staff.
- 100% per capita involvement in shared governance committee work and college leadership.

- Highly motivated and involved automotive advisory committee.
- Produces the most Toyota T-TEN graduates in the Western United States region.
- The Automotive Technology Program exceeds the college retention percentage with a 94% retention rate (all students 07/08).
- The Automotive Technology Program exceeds the college success percentage with an 86% success rate (all students 07/08).
- NATEF certified program.
- Strong community involvement: supplies the Cupertino Community Services Food Bank with over 5000 cans of food each year.

C. Provide a summary of the program's main areas for improvement.

- We will continue to work to increase our female student enrollment numbers.
- We will continue to work to increase our targeted population enrollment numbers.
- The automotive technology department needs to develop an alternative transportation technology program.

D. What are your expected outcomes (such as learning outcomes, transfer, career goals, certificate and degrees) for students in your program?

- Our main student learning outcome is job placement currently at 90% employed in the automotive field.
- Automotive Technology students were awarded 32 A.S. degrees and 34 certificates in the 07/08 school year.
- 95% of our classes are transferable.

II. **Retention and Growth**

A. How has the program responded to the institutional goal of increased access, growth and retention? (Include the number of students enrolled in the program and the retention rate over the last three years.)

- School year 05/06: enrollment 2432, retention percentage 93%
- School year 06/07: enrollment 2218, retention percentage 91%
- School year 07/08: enrollment 2190, retention percentage 94%
- Almost all automotive technology classes are full with waiting lists every quarter.

B. How has the program responded to the institutional goal of increased access, growth and retention <u>specifically for the identified targeted populations of African Ancestry, Latino/a, and Filipino/a students</u>? (Include the number and percentage of the program's enrollment that was made up of the targeted populations and the retention rate of the targeted populations over the last three years.)

- Targeted student population has increased each of the last three years:

05/06 total enrollment 2432, targeted student population 17%, targeted student population retention rate 86 to 90%
06/07 total enrollment 2218, targeted student population 21%, targeted student population retention rate 87 to 95%
07/08 total enrollment 2190, targeted student population 26%, targeted student population retention rate 93 to 95%.

C. The Statewide Basic Skills Initiative defines "basic skills" as English, mathematics, reading, writing and ESL skills. In what ways does your program address the basic skills needs of students? For programs that do not directly address basic skills, how does the lack of basic skills impact student success rates for your program?

- The lack of basic skills severely impacts our student's ability to be successful by limiting their ability to comprehend complex technical service information and communication skills. Content area literacy in the automotive technology career field is more important today than it has ever been. The complexity of today's automobiles was unheard of 10 years ago. This complexity has increased the demand for automotive technology students to be able to communicate through reading, writing, and verbal communication at higher levels than ever before. The demand for literacy in automotive technology career fields is driven by the need for students to be able to write repair stories on work orders, read and comprehend complex automotive repair technical information systems, and communicate clearly with customers. All of the comprehension strategies that apply in academic classrooms apply in automotive technology classrooms. Automotive Technology instructors use important comprehension strategies like: monitoring comprehension, activating and connecting to background knowledge, lifting text, determining importance of text, and summarizing and synthesizing information. Automotive technology content instructors teach literacy in classrooms every day.

III. **Student Equity**

A. What progress or achievement has the program made towards decreasing the student equity gap? (Include student success rates for targeted populations compared with other students over the last three years.)

- The automotive technology department has been closing the equity gap each of the last three years:
  05/06 total enrollment 2432, targeted student population success rate 78%, non-targeted student population success rate 91%.
  06/07 total enrollment 2218, targeted student population success rate 81%, non-targeted student population success rate 87%.

07/08 total enrollment 2190, targeted student population success rate 83%, non-targeted student population success rate 87%.

B. In what ways will the program continue working toward achieving these goals?

- The automotive technology department will continue to work with early intervention and recruitment.
- Develop new classes that reflect today's current job requirements including alternative transportation technologies.
- Increase our outreach program efforts.

C. What challenges exist in the program in reaching such goals?

- Reduced budgets require our students to bear more of the costs associated with our program. These costs come in the form of materials fees.
- Developing new classes is very expensive and involves adding new faculty.

IV. **Budget Limitations** **(**Please be specific in your responses.)

A. Identify any limitations placed on the program based on limited funding. What increases in resources are critical to the program and what are the consequences of continued limited funding on the program?

- Today's automotive industry is going green. To stay abreast of changing technology and to train our students in those technologies we need an alternative transportation technology program.
- Today's automotive technology service information is all web-based. This requires extensive use of computers and printers. As our budget is decreased the burden of the cost of paper and printing supplies is shifted to the students through materials fees. This affects all students but significantly affects our targeted student populations.
- Automotive technology training is heavily dependent on equipment and tools. Our classified support staff is instrumental in the education of our students. As our budget is decreased our staff is usually affected by layoffs or reduced hours. The success of our students is directly related to the strong support we get from our classified staff in the form of program equipment maintenance and equipment usage related to lab activities. If our classified staff is reduced student success will be seriously impacted.

B. Describe the consequence to students and the college in general if the program were eliminated or significantly reduced. Please be specific.

- In this economy our students need jobs. There is currently a 250,000 technician shortfall nationwide. We currently have a 90% placement rate in the automotive

industry after leaving our program. If our program is reduced or eliminated the impact to our career technical education students and our local community would be severe.
- The only way our program could be significantly reduced is by reduction of classified staff. Without our classified staff our students would suffer greatly. Without a technician to maintain the equipment in the shop learning will be greatly reduced. Without our tool technicians to maintain the tool room and hand out tools to the students student learning will be greatly reduced.
- We currently have articulation agreements with three local high schools. If our program is reduced or eliminated the impact to the automotive programs in these high schools would be devastating. We currently supply these high school automotive programs with vehicles, tools, and equipment.
- We are the only school in the South Bay area that is certified to train union automotive technician apprentices.
- If we cannot honor our contractual obligations with Toyota Motor Corporation we run the risk of losing up to $100,000 or more per year and equipment and tool support.

V.   **Additional Comments (optional):** What additional information is important to consider when reviewing the budget of your program for possible reductions? You may include any or all of the following, or other information.

- **Strategic Planning Initiatives (Community Collaborations, Cultural Competency, Outreach, and Individualized Attention for Retention):** Describe any other Strategic Planning Initiatives your program has addressed.

- **Relationships with Other Programs:** Describe any partnerships or collaborations that the program is actively engaged in, which reduce costs and/or improve service delivery.

- **State and Federal Mandates:** Describe any State or Federal mandates that directly impact the program.

- **Trends (such as enrollment, certificate and degrees conferred, transfer rates, job placement, etc.):** Describe any positive and/or negative trends in the program.

- **Comparable Programs at other Institutions:** Provide any information that you have that would allow for a comparison of the program to similar programs at other institutions in the State.