De Anza College
Automotive Technology (AUTO)
CTE Program Review for 2010-11

1. Catalog description of the program (program goals and objective)

De Anza College offers two paths for interested students. The Automotive Technology program is a full-time, daytime program with three specializations tracks: Machining and Engine Repair, Engine Performance, and Chassis and Powertrain. Admission to the program is based on a competitive application process. It takes approximately one year to complete each track. The Automotive Technology program offers Certificates of Achievement-Advanced and Associate in Sciences degrees.

The Automotive Technician program is a part-time, evening program that is dedicated to providing education and technical training to individuals currently employed in the automotive industry. De Anza offers programs for both union-affiliated and non-union apprentices. The curriculum is modularized so students can pursue courses in several automotive specialty areas in tandem. Students wishing to gain a more in depth understanding to different automotive systems can continue to take classes towards a Certificate of Achievement – Advanced or Associate in Science degree in one of four specialty areas: Machining and Engine Repair, Engine Performance Technology, Chassis Technology, and Powertrain Technology.

De Anza College's state-of-the-art Automotive Technology classroom and lab facilities were recently renovated and now include over 21,000 square feet of workspace. The lab areas feature 17 lifts, a powertrain lab, machine shop, stationary engine lab, alignment stations, and dynamometers. De Anza's Automotive Technology facilities were modeled after large dealer service facilities and offer students the opportunity to work with a broad range of tools, equipment, computerized diagnostics, and technical service resources.

2. Certificate and degree programs offered (title and units)

<u>Automotive Technology (Day Program)</u>

Certificate of Achievement-Advanced – **Automotive Machining and Engine Repair** – 37.5 units
Certificate of Achievement-Advanced – **Automotive Engine Performance** – 45 units

Certificate of Achievement-Advanced – **Automotive Chassis and Powertrain** – 41.5 units

A.S. Degree – **Automotive Machining and Engine Repair** – 37.5 units plus General Education
A.S. Degree – **Automotive Engine Performance** – 45 units plus General Education
A.S. Degree – **Automotive Chassis and Powertrain** – 41.5 units plus General Education

Automotive Technician (Evening Program)

Certificate of Achievement – **Automotive Chassis Technology** – 18 units
Certificate of Achievement – **Automotive Machining and Engine Repair** – 18 units
Certificate of Achievement – **Automotive Powertrain Technology** – 18 units
Certificate of Achievement – **Basic Engine Performance Technology** – 21 units
Certificate of Achievement – **Intermediate Engine Performance Technology** – 18 units
Certificate of Achievement – **Advanced Engine Performance Technology** – 18 units
Certificate of Achievement – **Advanced Automotive Technology** – 22.5 units
Certificate of Achievement – **Smog Technician** – 18.5 units

Certificate of Achievement-Advanced – **Automotive Machining and Engine Repair Tech.** – 48 units
Certificate of Achievement-Advanced – **Advanced Engine Performance Technology** – 57 units
Certificate of Achievement-Advanced – **Automotive Chassis Technology** – 48 units
Certificate of Achievement-Advanced – **Automotive Powertrain Technology** – 39 units

A.S. Degree – **Automotive Machining and Engine Repair Tech.** – 48 units plus General Education
A.S. Degree – **Advanced Engine Performance Technology** – 57 units plus General Education
A.S. Degree – **Automotive Chassis Technology** – 48 units plus General Education
A.S. Degree – **Automotive Powertrain Technology** – 39 units plus General Education

3. Program-level Student Learning Outcomes

4. Data on certificate and degree awards for previous year (2009-10)

Certificates of Achievement	Automotive Chassis Technology – 1 award
Certificates of Achievement-Advanced *formerly Certificates of Proficiency*	Automotive Engine Performance – 9 Automotive Machining and Engine Repair – 10 Automotive Chassis and Powertrain – 9 Advanced Engine Performance – 3 Automotive Chassis Technology - 1
Associate in Science degrees	Automotive Engine Performance – 4 Automotive Machining and Engine Repair – 9 Automotive Chassis and Powertrain – 8 Advanced Engine Performance – 4

5. Regional and State Labor Market Data

Employment opportunities for Automotive Technology program graduates exist in large service departments and small, independent shops. Individuals with a background in automotive technology can also parlay their skills into other related positions in the industry: service writers, part suppliers, tool sales representatives, and customer service representatives. According to the California Employment Development Department's Labor Market Information data for the San Jose-Sunnyvale-Santa Clara MSA, there are projected to be 101 combined annual openings for automotive technicians for the period 2006-2016 and a steady growth rate of 5.6%.

The California statewide employment projections for automotive technicians are solid, with 1,980 annual openings and a steady growth rate of 7% for the period 2008-2018. De Anza College's Automotive Technology Department Head is a member of numerous regional consortia for automotive service and repair businesses, including independent, dealer-authorized service shops and the Toyota Technician Education Network. Through the strength of these regional industry connections, graduates from De Anza's Automotive Technology certificate and A.S. degree programs have increased potential to secure employment or a promotion.

6. Areas for new course and/or program development

7. Recommendations of Advisory Committee (retain or delete program)