

PROGRAM OF STUDY

Automotive Technology AS Degree

Statement of Program Goals and Objectives

The Associate in Science in Automotive Technology is designed to prepare students for optimal success in higher education and technical careers in an environment that will encourage a lifelong pursuit of learning. The focus of the Automotive Department as a whole is to equip students with the necessary knowledge and technical skills to successfully enter the workforce in the automotive industry, transportation industry, agriculture industry, and other related mechanical fields.

Program Background and Rationale

This degree is part of a Career Technical Education (CTE) program designed for workforce training and it has also been designed with the intent to articulate with other schools. The new format of the degree and the associated courses will be able to transfer to UC and CSU schools and in particular Rio Hondo which is one of the pilot schools for a new Automotive Technology Bachelors degree.

This program prepares students for careers in: Automotive, Transportation, Agricultural, Oilfield and Construction Industries.

Catalog Description

The Associate in Science in Automotive Technology is designed to prepare students for optimal success in higher education and technical careers in an environment that will encourage a lifelong pursuit of learning. Upon completion of the associate's degree program, graduates will be eligible for entry level employment at automotive or medium/heavy duty equipment dealerships and independent repair facilities. Graduates have the potential to work in management and other related areas of service operations

Program Learning Outcomes

1. Students will demonstrate proficiency in technical skills and safety principles required for industrial employment.

Assessment: The faculty will track success rates on safety tests, technical exams and lab tasks.

2. Students will demonstrate their ability to assess, evaluate and solve problems common to automotive, industrial, and agricultural industries.

Assessment: The faculty will evaluate project based outcomes in the required courses, examinations and lab activities.

3. Students will demonstrate a thorough understanding of the core material required for transfer to a four year university or certification in the department programs.

Assessment: The faculty will track success rates for the required courses, completion rates of the certificate of achievement and degree as well as completion of industry certificates.

Program Matrix

Courses	Program Learning Outcomes		
	A	B	C
AUTO B20	X	X	X
AUTO B21	X	X	X
AUTO B22	X	X	X
AUTO B23	X	X	X
AUTO B3	X	X	X
AUTO B30	X	X	X
AUTO B31	X	X	X
AUTO B33	X	X	X
AUTO B34	X	X	X
AUTO B36	X	X	X
AUTO B39	X	X	X
AUTO B40	X	X	X
AUTO B43	X	X	X
AUTO B46	X	X	X
AUTO B48	X	X	X
AUTO B49	X	X	X

Planning Summary

Program Cover	
Recommended T.O.P. Code	00948
Units for Degree Major or Area of Emphasis	36
Total Units for Degree	75
Required Units-Certificate	N/A
Projected Annual Completers	N/A
Projected Net Annual Labor Demand (CTE)	10
Estimated FTE Faculty	0 additional

Workload	
Number of New Faculty Positions	0 additional
Est. Cost, New Equipment	0
Cost of New/Remodeled Facility	0
Est. Cost, Library Acquisitions	0
When will this program undergo review as part of college's Program Evaluation Plan?	70 = Fall 2016
Need	
Enrollment and Completer Projections	10 Student per year
Place of Program in Curriculum/Similar Programs	Other colleges offer similar programs but tend to place it under Industrial Technology with an Automotive Option.
'Similar Programs at other colleges in service area	Yes. Automotive AS degree is a common degree.
Labor Market Information & Analysis (CTE only)	Based on EDD statistics there are almost 200 job openings that fall under the 00948 TOP code. This degree serves the workforce in the automotive industry, transportation industry, agriculture industry, and other related industrial and mechanical fields.
Employer Survey (CTE only)	200 related job openings per year
Explanation of Employer Relationship (CTE Only)	Over 35 local employers in Bakersfield are members of the advisory committee for the Automotive Department at Bakersfield College.
List of Members and Advisory Committee (CTE Only)	Phillip Astumian, Patrick Beck, Arnold Burr, Ivan Coffman, Bruce Cox, Ron Dyer, David Friday, Dave Monty, Mike Hawkesworth, Barry Hopfe, Bob Klingenberg, Bob Kopp, Roger Lee, Gary Massie, Tom McHugh, Tom Moser, Ted Nicholas, Andy Pappas, Greg Pierucci, John Pitre, Nate Ruiz, Bruce Sherley, Glen Spence, Don Thornsberry, Randy Timmons, George White, Mitch Mullan, Dave Comstock, Dan Blanton, Dave Owens, Evan Bass, John Watson, George Rice, Leonardo Pacheco, Craig Henderson, Mike Ariola,
Recommendations of Advisory Committee (CTE Only)	Yes, this was a recommendation of the advisory committee. See Attachment
Adequate Resources	
Library and/or Learning Resources Plan	yes

Facilities and Equipment Plan	yes
Financial Support Plan	yes
Faculty Qualifications and Availability	yes
Compliance	
Based on model curriculum (if applicable)	The core material in these courses are part of our national certification and accreditation through National Automotive Technicians Education Foundation (NATEF) and Automotive Service Excellence (ASE) core requirements. The general education pattern is follows GE Breadth.
Licensing or Accreditation Standards	The material in these courses are part of our national certification and accreditation through National Automotive Technicians Education Foundation (NATEF). The general education pattern follows GE Breadth.
Student Selection and Fees	Standard
Attachment	

Student Education Plan (SEP) Pathway

Goal: develop a pattern of courses including both major and general education courses for college-ready students earning their degree in 2 years.

Pathway Guidelines:

1. Create a pattern of course-taking for a full-time student (12-16 units per semester=60 units total).
2. Start the pathway at college level. Academic Development will create a pathway for underprepared students.
3. Research demonstrates that students who complete their English and Math first are more successful.
4. Be sure the order of the coursework includes prerequisites taken at appropriate times.
5. Consider a balance between major courses, general education courses and easy versus hard courses.

Degree Automotive Technology AA AS AA-T AS-T COA>18 units COA<18 units JSC

GE Pathway: IGETC (UC pathway) CSU Breadth BC Gen Ed (Certificates and Job Skills do not need General Education)

Step 1: Enter major courses by name and number.

Step 2: Choose appropriate GE courses fulfilling the GE pathway indicated above by course name, number, and category the course fulfills.

First Semester	Gen Ed	Units
AUTO B20		4
AUTO B30		4
ENGL B1A	A2	3
MATH B22	B4	4
MUSC B2	C1	3
Total		18

Second Semester	Gen Ed	Units
AUTO B21		4
AUTO B33		4
AUTO ELECTIVE		4-5
COMM B1	A1	3
POLS B1	D8	3
Total		18-19

Third Semester	Gen Ed	Units
AUTO B40		4
AUTO ELECTIVE		4-5
NUTR B10	E	3
HIST B1	C2/D6	3
PSYC B1B	B2	3
ASL B1	C1	4
Total		21-22

Fourth Semester	Gen Ed	Units
AUTO 43		4
AUTO ELECTIVE		4-5
PHYS 2A	B1	4
PHIL B9	A3/C2	3
HIST B17A	D6	3
Total		18-19

Faculty Lead for Pathway: Justin Flint/Vic Posey Student Affairs Lead for Pathway: _____

Department approval date 9-2-15

Bakersfield College Automotive Advisory Committee

Certificate and Degree Subcommittee meeting 9-16-15

Present – Ted Nicolas, John Pitrie, Bob Klingenburg, Tom Moser, Mitch Mullan, Justin Flint, Vic Posey

1:00 - Ted called to order

Justin and Vic presented the proposed Certificates and Degree that the Automotive Program would like to offer beginning in the Fall 2016 semester. The courses associated with each certificate and degree were reviewed as well as the multiple pathways the new offerings would create. Timeline scenarios for each certificate and degree were also discussed. The general consensus of the committee was that this would provide the student with many options for training while offering a well balanced, thorough education that preserves a high quality learning environment.

Tom made a motion to approve the certificates and degree as presented. Ted John seconded the motion. All were in favor. None opposed.

1:55 - Ted called the meeting to order