

# AUTO MECHANICS

## LONG BEACH CITY COLLEGE

### Curriculum Guide for Academic Year 2010-2011

#### Associate in Science and/or Certificate of Achievement or Certificate of Accomplishment

*ALL INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE.  
For possible updates to this guide please refer to the following website: <http://osca.lbcc.edu>*

#### CAREER OPPORTUNITIES

Students prepare for entry-level jobs in the automotive service industry. The 200 series of courses are taught during the day and the 400 series in the evening. Students may take day or evening classes or a combination of the two to fulfill the certificate of achievement and degree requirements.

#### DEPARTMENTAL ADMISSION REQUIREMENTS

None. For more departmental information call (562) 938-3054 or 938-5207.

	Students pursuing an Associate Degree for this field of concentration need to select from specific courses in general education disciplines. For a complete listing of courses or disciplines, refer to the Associate Degree information section of this guide OR view the guide online at <a href="http://osca.lbcc.edu">http://osca.lbcc.edu</a> .	
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#### REQUIRED COURSES

	<b>UNITS</b>	In Progress	Completed Grade
AMECH 231 Engine Repair & Automatic Transmissions (F, SP)	9		
<b>OR</b>	<b>OR</b>		
AMECH 434 Engine Repair (SP)	6		
<b>AND</b>	<b>AND</b>		
AMECH 436 Automatic & Standard Transmission (F)	6		
AMECH 232 Brakes/Steering Systems (F, SP)	9		
<b>OR</b>	<b>OR</b>		
AMECH 430 Auto Wheel Alignment (F)	6		
<b>AND</b>	<b>AND</b>		
AMECH 432 Automotive Brake Systems (SP)	6		
AMECH 233 Auto Electrical & Fuel Systems (F)	9		
<b>OR</b>	<b>OR</b>		
AMECH 442 Automotive Fuel Systems (F)	6		
<b>AND</b>	<b>AND</b>		
AMECH 444 Automotive Electrical Systems (SP)	6		
AMECH 236 Automotive Emission & Computer Control (SP)	9		
<b>OR</b>	<b>OR</b>		
AMECH 438 Auto Emission Controls (F)	6		
<b>AND</b>	<b>AND</b>		
AMECH 440 Automotive Computer Systems (SP)	6		
AMECH 50A Automotive Machine	3		
WELD 460AD Welding (Acetylene Gas)(one semester only)	2		
<b>TOTAL UNITS</b>	<b>41-53</b>		

#### LEGEND

**(SP = Spring) (S = Summer) (F = Fall) (INF = Infrequently) = Represents general frequency of course offering**

**GRADUATION REQUIREMENTS**

**For CERTIFICATE OF ACHIEVEMENT:**

This certificate is a one to two year program in occupational/technical areas at Long Beach City College that provides training in job skills and employment opportunities. Complete the required units listed above with a minimum grade point average of 2.0 ("C" average). Fifty percent (50%) or more of the unit requirements for this field of concentration must be completed in residence (credit earned by exam, where applicable, may be included).

**For ASSOCIATE DEGREE:**

**NOTE: Effective Fall 2009, Title 5, section 55063 (a) (2) requires that students must complete each course counted toward the major or area of emphasis with a grade of "C" or better or "P" if the course is taken on a "Pass/No Pass" basis.**

The Associate Degree is a two-year college degree awarded by Long Beach City College which includes general education courses and a major. In addition to the requirements for the Certificate of Achievement, complete the A. A. degree requirements specified in the catalog. The requirements for general education/proficiency and the field of concentration need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout (see the catalog for definition of "continuous enrollment"). Fifty percent (50%) or more of the unit requirements for this field of concentration must be completed in residence (credit earned by exam, where applicable, may be included).



**Required for the Communication & Analytical Thinking requirement:**

† Math Requirement: Math 120, Math 130, Math 130A **OR** a more advanced level of Mathematics.



**Recommended for the Natural Sciences requirement:**

Environmental Science 1 (Energy for the Future) OR † Chemistry 2 OR Physics 10.

**NOTE:** To receive a certificate or degree you must submit completed application forms in the Admissions and Records Office during your final semester of course work.

In general, "double-counting" is not allowed. That is, one course may not be used to fulfill both a field of concentration requirement and to fulfill a general education requirement.

**CERTIFICATES OF ACCOMPLISHMENT**

FOR OFFICE USE ONLY: 4103

**Name of Certificate: Quick Service Technician –  
Brake Inspection**

REQUIRED COURSES			UNITS	In Progress	Completed Grade
	AMECH 803	Quick Service Technician – Brake Inspection	2		
<b>TOTAL UNITS</b>			<b>2</b>		

FOR OFFICE USE ONLY: 4101

**Name of Certificate: Quick Service Technician –  
Lubrication Service**

REQUIRED COURSES			UNITS	In Progress	Completed Grade
	AMECH 801	Quick Service Technician – Lubrication Service	2		
<b>TOTAL UNITS</b>			<b>2</b>		

FOR OFFICE USE ONLY: 4105

**Name of Certificate: Quick Service Technician –  
Tire Service**

<b>REQUIRED COURSES</b>			<b>UNITS</b>	<b>In Progress</b>	<b>Completed Grade</b>
	AMECH 802	Quick Service Technician – Tire Service	2		
<b>TOTAL UNITS</b>			<b>2</b>		

FOR OFFICE USE ONLY: 4100

**Name of Certificate: Advanced Transportation Technology –  
Electric Vehicle**

<b>REQUIRED COURSES</b>			<b>UNITS</b>	<b>In Progress</b>	<b>Completed Grade</b>
	AMECH 480	Hybrid, Fuel Cell, & Electric Vehicles	3		
	AMECH 481	Advanced Hybrid & Fuel Cell Electric Vehicles	3		
<b>TOTAL UNITS</b>			<b>6</b>		

FOR OFFICE USE ONLY: 4102

**Name of Certificate: Advanced Transportation Technology –  
Light – Medium Duty Alternate Fuels**

<b>REQUIRED COURSES</b>			<b>UNITS</b>	<b>In Progress</b>	<b>Completed Grade</b>
	AMECH 490	Introduction to Alternate Fuels	3.5		
	AMECH 493	A/F Conversion, Diagnosis & Repair	3.5		
<b>TOTAL UNITS</b>			<b>7</b>		

FOR OFFICE USE ONLY: 4104

**Name of Certificate: Advanced Transportation Technology –  
Heavy Duty Alternate Fuels**

<b>REQUIRED COURSES</b>			<b>UNITS</b>	<b>In Progress</b>	<b>Completed Grade</b>
	AMECH 491	Heavy Duty Alternate Fuels	3.5		
	AMECH 492	H/D Alt. Fuel Diagnosis & Repair	3.5		
<b>TOTAL UNITS</b>			<b>7</b>		

**NOTE:** See LBCC Advanced Transportation Technology Guides for Electric Vehicles or Alternate Fuels for Certificate of Achievement and/or Associate Degree.

**CERTIFICATE OF ACCOMPLISHMENT REQUIREMENTS**

For **CERTIFICATE OF ACCOMPLISHMENT:**

This certificate certifies a competency in a given area and requires less than 18 units. Fifty percent (50%) or more of the unit requirements for this field of concentration must be completed in residence. Complete the required units at Long Beach City College with a minimum grade of "C" in each course. Submit a completed application for the certificate in the Admissions and Records Office after completion of required units.

**Students interested in transferring to a university to continue their study in this field of concentration or other majors are strongly advised to consult an LBCC academic counselor and refer to the ASSIST website ([www.assist.org](http://www.assist.org)) for major preparation information. Counselors can clarify the different major and admissions requirements at a university. Students may visit the Student Success/Transfer Services Center to access further educational resources. If you need to set up an appointment to see a counselor or schedule the SOAR Test, call LAC (562)938-4561 or PCC (562)938-3920.**