

ADVANCED TRANSPORTATION TECHNOLOGY

Electric Vehicles

CAREER OPPORTUNITIES

The certificate and degree programs will prepare students for an entry-level position as a light/medium and heavy duty technician in such fields as car, bus, truck, and specialty equipment diagnosis and repair industry. Students prepare for a career in Hybrids, fuel cells, and electric vehicle conversion, maintenance and repair using state-of-the-art equipment.”

DEPARTMENTAL ADMISSION REQUIREMENTS

None. For more departmental information call (562) 938-3067.

REQUIRED COURSES	UNITS	In Progress	Completed Grade
AMECH 480 Hybrid, Fuel Cell, & Electric Vehicles	3		
AMECH 481 Advanced Hybrid & Fuel Cell Electric Vehicles	3		
AMECH 483 Electric Vehicle Projects	3		
AMECH 490 Introduction to Alternative Fuels	3.5		
Subtotal Units	12.5		
Select SIX (6) units from the following:			
ABODY 211 Introduction to Basic Auto Body	9		
ABODY 240 Automotive Refinishing I	4.5		
ABODY 419AD Auto Body Repair	4		
AMECH 233 Electrical & Fuel	9		
AMECH 236 Computers & Emissions	9		
AMECH 333M1 Electrical Systems (9 weeks)	4.5		
AMECH 336M1 Computer Systems (9 weeks)	4.5		
AMECH 336M2 Emissions Controls (9 weeks)	4.5		
AMECH 438 Emission Controls (night)	6		
AMECH 440 Computer Systems (night)	6		
AMECH 444 Electrical Systems (night)	6		
DIESL 391A Hydraulics	3		
SHMET 201 Sheet Metal 1	10		
SHMET 220A Surface Development & Fabrication 1	5		
SHMET 420AD Sheet Metal Fabrication	3		
Subtotal Units	6		
TOTAL UNITS	18.5		

GRADUATION REQUIREMENTS

For CAREER CERTIFICATE:

The Career Certificate is a one to two year program in occupational/technical areas at Long Beach City College which provides training in job skills and employment opportunities. Complete the required units with a minimum cumulative 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).

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

For ASSOCIATE DEGREE:

The Associate Degree is a two-year college degree awarded by Long Beach City College that includes general education courses and a major. In addition to the requirements for this Career Certificate, complete the A.S. 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:

† ELECT 225, Algebra and Trigonometry for Technicians OR Mathematics 110, First Course in Algebra OR MATH 36, Nature of Mathematics OR a more advanced level of Mathematics may be substituted.

Recommended for the Natural Sciences requirement:

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

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.

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.

SUGGESTED SEQUENCE OF COURSES
This is not an educational plan, as course offerings, student schedules, and circumstances vary. Also be aware that a student must meet all the prerequisites that make one eligible for the sequence of courses.

A suggested full-time sample sequence of courses for the required 60 units to reach an Associate Degree includes:

<p><u>First Semester</u> AMECH 490 3.5 Units OR AMECH 480 3 AND Possible Elective*</p>	<p><u>Second Semester</u> AMECH 490 3.5 Units OR AMECH 480 3 AND Possible Elective*</p>
<p><u>Third Semester</u> AMECH 481 3.5 Units OR AMECH 483 3 AND Possible Elective*</p>	<p><u>Fourth Semester</u> AMECH 483 3 Units AND Possible Elective*</p>

NOTE: Electives can be taken in any semester. The number of units required depends on elective selection.

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS

COMPLETION CERTIFICATE

FOR OFFICE USE ONLY: 4100

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

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

COMPLETION CERTIFICATE REQUIREMENTS

For **COMPLETION CERTIFICATE**:

The Completion 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”. Submit a completed application for the Completion 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) 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. To set up an appointment to see a counselor or schedule the SOAR Test, call LAC (562)938-4561 or PCC (562)938-3920.