ADVANCED TRANSPORTATION TECHNOLOGY - ELECTRIC VEHICLES

LONG BEACH CITY COLLEGE Curriculum Guide for Academic Year 2010-2011 Certificate of Achievement and/or Associate in Science or Certificate of Accomplishment

ALL INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE

For possible updates tot his guide please refer to the following website: http://osca.lbcc.edu

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 or visit http://attc.lbcc.edu.

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 http://osca.lbcc.edu.

			In	Completed
REQUIRED COURS	SES	<u>UNITS</u>	Progress	Grade
AMECH 480	Hybrid, Fuel Cell, & Electric Vehicles (F, SP)	3		
AMECH 481	Advanced Hybrid & Fuel Cell Electric Vehicles (F, SP)	3		
AMECH 483	Electric Vehicle Projects (F, SP)	3		
AMECH 490	Introduction to Alternative Fuels (F, SP)	3.5		
Subtotal Units		12.5		
Select SIX (6) units	from the following:			
ABODY 211	Introduction to Basic Auto Body Repair	9		
ABODY 240	Automotive Refinishing I	4.5		
ABODY 419AD	Auto Body Repair	4		
AMECH 233	Auto Electrical & Fuel Systems (F)	9		
AMECH 236	Automotive Emissions & Computer Control (SP)	9		
AMECH 438	Auto Emission Controls (F - night)	6		
AMECH 440	Automotive Computer Systems (SP - night)	6		
AMECH 444	Automotive Electrical Systems (SP - night)	6		
DIESL 391B	Heavy Equipment Electrical Systems	5		
SHMET 201	Sheet Metal 1	10		
SHMET 220A	Surface Development & Fabrication 1	5		
SHMET 420AD	Sheet Metal Fabrication	2		
Subtotal Units		6		
TOTAL UNITS		18.5		

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(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 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).

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 that includes general education courses and a major. In addition to the requirements for this Certificate of Achievement, 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:

⁺ 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.

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 in order to be eligible for the sequence of courses.

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

	First Semester		Second Semester	
	AMECH 490	3.5 Units	AMECH 490	3.5
Units				
	OR		OR	
	AMECH 480	3	AMECH 480	3
	AND		AND	
	Possible Elective*		Possible Elective*	

ADVANCED TRANSPORTATION	

OR AMECH 483 AND Possible Elective*

Third Semester

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

3.5 Units

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CERTIFICATE OF	
ACCOMPLISHMENT	

FOR OFFICE USE ONLY:	Name of Certificate: Advanced Transportation Technology –
4100	Electric Vehicle

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

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 this 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. 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.

AND **Possible Elective***

Completed

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