

AUTO MECHANICS

Curriculum Guide for Academic Year 2012-2013

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Students planning to transfer to a four-year college or university should refer to the ASSIST web site at www.assist.org and consult a counselor before beginning a program of study. Please call 562-938-4561 for the LAC, or (562) 938-3920 for PCC to schedule a meeting with a counselor. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to: Associate in Science (A.S.) Degree

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 Associate Degree requirements.

			_ In	Completed
REQUIRED COURSES		UNITS	Progress	Grade
AMECH 231 OR	Engine Repair & Automatic Transmissions OR	9 OR		
AMECH 434 &	Engine Repair &	6 &		
AMECH 436	Automatic & Standard Transmission	6		
AMECH 232 OR	Brakes/Steering Systems OR	9 OR		
AMECH 430 &	Auto Wheel Alignment &	6 &		
AMECH 432	Automotive Brake Systems	6		
AMECH 233 OR	Auto Electrical & Fuel Systems OR	9 OR		
AMECH 442 &	Automotive Fuel Systems &	6 &		
AMECH 444	Automotive Electrical Systems	6		
AMECH 236 OR	Automotive Emission & Computer Control OR	9 OR		
AMECH 438 &	Auto Emission Controls &	6 &		
AMECH 440	Automotive Computer Systems	6		
AMECH 50A	Automotive Machine	3		
AMECH 424	Auto Air Conditioning	3		
	TOTAL UNITS	42-54		

REQUIRED FOR THE COMMUNICATION & ANALYTICAL THINKING General Education component:

Math Requirement: Complete Math 120[†] or 130[†] or 130A[†] OR a more advanced level of Mathematics[#].

For graduation with an Associate in Science (A.S.) Degree with a major in Auto Mechanics:

Minimum Unit Requirements: §Any course that appears on a curriculum guide and the General Education Pattern (Plan A) may fulfill both major and general education requirements (Approved by College Curriculum Committee Spring 2012). For this degree, complete a minimum of 60 units in courses numbered 1-599. Please note that additional elective units may be required to meet this minimum based upon courses selected to fulfill General Education for the Associate Degree.

Associate Degree requirements continue on following page.

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Departmental Phone: 562-938-3054 or 938-5207

Associate Degree Requirements continued from previous page.

A.S. Auto Mechanics Major 71.5 units General Education/A.S.\$ 19 units

- 1. **Scholarship:** Maintain an **overall grade point average (GPA) of 2.0** ("C" average) based on all accredited college work applied to the degree, no matter where completed. For this **field of concentration, complete each course above** with a **grade of "C" or better**, or "P" if course is graded on a P/NP basis.
- 2. **Residence for the Degree:** Complete at least 30 units of the required 60 in residence at LBCC, or complete in residence at LBCC at least 20 units within the last 30 units of work applied to the degree.
- 3. **Residence for Field of Concentration**: Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 21 27 units** of the required 42 54 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
- 4. **General Education and Proficiency Requirements:** Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at http://osca.lbcc.edu.
- Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/. Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester.

*The requirements for general education/proficiency and the field of concentration (major) 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".

	Program of study leading to:			
	Certificate of Achievement			
REQUIRED COURSES—Complete the 42 - 54 units of required courses as listed in the Associate Degree requirements box on the first page.				
REQUIRED COURSES		In Progress Completed		
KEQUIKED COUKSES		Frogress Completed		
	TOTAL UNITS 42 -	54		
	ficate of Achievement: OURSES listed above with a minimum grade po re of the unit requirements for this field of conce			

- Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at least 21 27 units of the required 42 54 must be completed at Long Beach City College. Credit earned by exam, where applicable, may be included.
- Complete and submit the certificate application form to the Admissions and Records office during your final semester of
 course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/.
 Refer to the Schedule of Classes (http://schedule.lbcc.edu/) and click the "Important Dates" link to view the actual deadline
 for each semester.

For the Associate in Science degree, the following course is recommended, BUT NOT REQUIRED. RECOMMENDED for the Natural Sciences requirement (but not required):

	KEGOMMENDED TOT the Nataral Goldhood requirement (but not required).					
†	ENVRS 1 OR	Energy for the Future OR	3 OR			
†	CHEM 2	Elementary Chemistry	4.5			

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	Program of study leading to:				
	Certificates of Accomplishment				
Certificate: Quick Service	Technician—Brake Inspection: 4103				
REQUIRED COURSES		UNITS	In Progress	Completed Grade	
AMECH 803	Quick Service Technician—Brake Inspection	2			
	TOTAL UNITS	2			
				<u> </u>	
Certificate: Quick Service	Technician—Lubrication Service: 4101		In	Completed	
REQUIRED COURSES		UNITS	Progress	Grade	
AMECH 801	Quick Service Technician—Lubrication Service	2			
	TOTAL UNITS	2			
Certificate: Quick Service	Technician—Tire Service: 4105		In	Completed	
REQUIRED COURSES		UNITS	Progress	Grade	
AMECH 802	Quick Service Technician—Tire Service	2			
	TOTAL UNITS	2			
Certificate: Advanced Tra	nsportation Technology—Electric Vehicle: 4100				
		LINUTO	In December	Completed	
REQUIRED COURSES AMECH 480	Hybrid, Fuel Cell & Electric Vehicles	UNITS 3	Progress	Grade	
AMECH 481	Advanced Hybrid & Fuel Cell Electric Vehicles	3			
	TOTAL UNITS	6			
One difference of Too	annual de la Tanton de mar d'indicate l'ann Bata All				
Certificate: Advanced Fra	nsportation Technology—Light-Medium Duty Alt	ernate F	<i>ueis: 4102</i> In	Completed	
REQUIRED COURSES		UNITS	Progress	Grade	
AMECH 490	Introduction to Alternate Fuels	3.5			
AMECH 493	Alt. Fuels Conversion, Diagnosis & Repair TOTAL UNITS	3.5 7			
	TOTAL ONTO	•			
Certificate: Advanced Transportation Technology—Heavy Duty Alternate Fuels: 4104					
REQUIRED COURSES		UNITS	In Progress	Completed Grade	
AMECH 491	Heavy Duty Alternative Fuels	3.5	Fiogress	Graue	
AMECH 492	HD Alt Fuel Engine Diagnosis & Repair	3.5			
	TOTAL UNITS	7			

For graduation with a **Certificate of Accomplishment:**

- 1. Complete the above required units with a minimum grade of "C" in each course.
- 2. Fifty percent (50%) or more of the required units must be completed in residence at LBCC.
- Complete and submit the certificate application form to the Admissions and Records office during your final semester of
 course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/.
 Refer to the Schedule of Classes (http://schedule.lbcc.edu/) and click the "Important Dates" link to view the actual
 deadline for each semester.

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Career Opportunities

Students prepare for entry-level jobs in the automotive service industry.

Program Mission and Outcomes

To provide practical and theoretical knowledge and skills for students to prepare them for jobs in the automotive industry.

Outcomes:

- Troubleshoot and repair an electrical and fuel related malfunction according to industry standards.
- Troubleshoot and repair a steering and brake related malfunction according to industry standards.
- Troubleshoot and repair an engine and transmission related malfunction according to industry standards.
- Troubleshoot and repair an emission and on-board computer control related malfunction according to industry standards.

Legend

† This course has a prerequisite. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (http://www.lbcc.edu/cat/index.html), the Schedule of Classes (http://schedule.lbcc.edu/), or the online Credit Course Outline (http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/) for specific prerequisite information.

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