

DIESEL MECHANICS

Curriculum Guide for Academic Year 2011-2012

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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. To meet with a counselor call 562-938-4561 for the LAC, or (562) 938-3920 for PCC. Students may also wish to visit the Transfer Center on either campus.

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

Option 1: General

REQUIRED COURSES

		UNITS	In Progress	Completed Grade
CAOTC 211	Discovering Computers	1		
CAOTT 233	Computer Keyboarding	1		
DIESL 391B	Heavy Equipment Electrical Systems	5		
AMECH 424	Automotive Air Conditioning	3		
DIESL 281	Detroit Diesel Engines	10		
DIESL 282	Cummins Four Cycle Engines	10		
† DIESL 283	Powered Systems	10		
† DIESL 284	Highway Transport	10		
TOTAL UNITS		50		

Option 2: Caterpillar

REQUIRED COURSES

		UNITS	In Progress	Completed Grade
CAOTC 211	Discovering Computers	1		
CAOTT 233	Computer Keyboarding	1		
DIESL 391B	Heavy Equipment Electrical Systems	5		
AMECH 424	Automotive Air Conditioning	3		
DIESL 289	Caterpillar 3406 & 3116 Engine	10		
DIESL 290	C.A.T. Transmissions & Final Drive	10		
DIESL 291	C.A.T. Hydraulics	10		
DIESL 292	C.A.T. Chassis & Electrical	10		
TOTAL UNITS		53		

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[#].

RECOMMENDED for the NATURAL SCIENCES General Education component:
 ENVRS 1 (Energy for the Future) OR CHEM 2[#]

Associate Degree requirements continue on the following page:

Associate Degree requirements continued from the previous page:

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

1. **Units:** Complete a minimum of 60 units, distributed as follows:

Diesel Mechanics Major:	50 units
General Education/A.S.	19 units
<u>Electives/Other courses:</u>	0 units
TOTAL:	69 units

2. **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.
3. **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.
4. **Residence for the Field of Concentration:** Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 25 units** of the required 50 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
5. **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> .
6. 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".

Unless otherwise noted, "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.

**Program of study leading to:
Certificate of Achievement**

REQUIRED COURSES—Complete the 50 units of required courses as listed in the Associate Degree requirements box on the first page.

REQUIRED COURSES

		In Progress	Completed
TOTAL UNITS	50	<input type="text"/>	<input type="text"/>

For graduation with a **Diesel Mechanics Certificate of Achievement:**

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C"**, or P of course is graded on a P/NP basis.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 25 units** of the required 50 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
3. 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 both the **Associate in Arts** and the **Certificate of Achievement**, the following courses are recommended, **BUT ARE NOT REQUIRED** to earn either.

RECOMMENDED for Option 1, General, but not required:

WELD 400AD	Welding (General)	2	<input type="text"/>	<input type="text"/>
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RECOMMENDED for Option 2, Caterpillar, but not required:

WELD 460AD	Welding (Acetylene Gas)	2	<input type="text"/>	<input type="text"/>
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Career Opportunities

This field of concentration is designed to acquaint the student with the business world in general. With additional course work, it can prepare students for either employment or further education. Students with definite career/educational goals are recommended to follow the appropriate curriculum guide for their specific field of concentration, such as Accounting or Business Administration (transfer), marketing, management, international business, or real estate.

This **Certificate of Achievement** will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization.

This **Associate Degree** will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major.

Program Mission and Outcomes

The Program Mission Statement and Student Learning Outcomes for the *Diesel Mechanic* program are unavailable at this time. Please contact the department at 562-938-3071 or 938-3054 for additional information.

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/courseetails/>) for specific prerequisite information.