

SHEET METAL

LONG BEACH CITY COLLEGE

Curriculum Guide for Academic Year 2010-2011

Associate in Science and/or Certificate of Achievement

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 OBJECTIVES

This Associate Degree will prepare students for entry positions in sheet metal layout, fabrication and installation.

The Core Skills Certificate of Achievement will prepare students for an entry-level position as a trainee in sheet metal layout, fabrication and installation.

The Advanced Skills Certificate of Achievement will prepare will for an entry level position as a trainee in sheet metal layout, fabrication and installation. The Advanced Certificate will place added emphasis on sheet metal CNC fabrication, drafting and duct system layout and in preparation for acceptance into the Sheet Metal Worker Apprenticeship Program.

DEPARTMENTAL ADMISSION REQUIREMENTS

None. For more departmental information call (562) 938-3051 or visit the departmental website at: <Http://sheetmetal.lbccc.edu>.

ASSOCIATE DEGREE REQUIREMENTS

REQUIRED COURSES		UNITS	In Progress	Completed Grade
SHMET 220A	Basic Sheet Metal Layout and Fabrication (F,SP,S)	4		
OR				
SHMET 320M1	Basic Sheet Metal Layout and Fabrication (F)	2		
AND				
SHMET 320M2	Basic Sheet Metal Layout and Fabrication (SP)	2		
▲ SHMET 220B	Advanced Sheet Metal Layout and Fabrication (F,SP)	4		
▲ SHMET 220C	Power Metalworking Machine Operations (F)	4		
SHMET 221	Sheet Metal Blueprint Reading (F)	2		
WELD 480AD	Welding (Inert Gas)	2		
ELECT 253	OSHA Standards for Construction Safety	2		
TOTAL UNITS		18		

CORE SKILLS CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

REQUIRED COURSES		UNITS	Progress	Grade
SHMET 220A	Basic Sheet Metal Layout and Fabrication (F,SP, S)	4		
OR				
SHMET 320M1	Basic Sheet Metal Layout and Fabrication (F)	2		
AND				
SHMET 320M2	Basic Sheet Metal Layout and Fabrication (SP)	2		
▲ SHMET 220B	Advanced Sheet Metal Layout and Fabrication (F)	4		
▲ SHMET 220C	Power Metalworking Machine Operations (F)	4		
SHMET 221	Sheet Metal Blueprint Reading (F)	2		
WELD 480AD	Welding (Inert Gas)	2		
FORK 801	Forklift Safety and Operation	1		
ELECT 253	OSHA Standards for Construction Safety	2		
TOTAL UNITS		19		

RECOMMENDED but not required:

DRAFT 201	Introduction to Drafting	4		
ELECT 202	Electrical Mathematics	3		
▲ SHMET 220D	Sheet Metal CNC Fabrication Systems (SP)	4		
SHMET 223	Sheet Metal Duct Systems and Fabrication (SP)	3		
SPEECH 20	Elements of Interpersonal Communication	3		
SHMET 420AD	Sheet Metal Fabrication (F,SP, S)	2		
SHMET 421AD	Sheet Metal Layout (F,SP, S)	1		
SHMET 423AD	Sheet Metal Layout (F,SP)	3		
▲ SHMET 271AD	Work Experience Sheet Metal (F,SP)	2		
▲ SHMET 272AD	Work Experience Sheet Metal (F,SP)	3		
▲ SHMET 273AD	Work Experience Sheet Metal (F,SP)	4		
WELD 400 Band	Welding	2		

ADVANCED SKILLS CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

REQUIRED COURSES

		UNITS	Progress	Grade
SHMET 220A	Basic Sheet Metal Layout and Fabrication (F,SP, S)	4		
OR				
SHMET 320M1	Basic Sheet Metal Layout and Fabrication (F)	2		
AND				
SHMET 320M2	Basic Sheet Metal Layout and Fabrication (SP)	2		
▲ SHMET 220B	Advanced Sheet Metal Layout and Fabrication (F,SP)	4		
▲ SHMET 220C	Power Metalworking Machine Operations (F)	4		
▲ SHMET 220D	Sheet Metal CNC Fabrication Systems (SP)	4		
SHMET 221	Sheet Metal Blueprint Reading (F)	2		
SHMET 223	Sheet Metal Duct Systems and Fabrication (SP)	2		
WELD 480AD	Welding (Inert Gas)	2		
FORK 801	Forklift Safety and Operation	1		
ELECT 253	OSHA Standards for Construction Safety	2		
SUBTOTAL UNITS		25-27		

Select SIX-SEVEN (6-7) units from the following courses:

DRAFT 201	Introduction to Drafting	4		
SPEECH 20	Elements of Interpersonal Communication	3		
ELECT 202	Electrical Mathematics	3		
SUBTOTAL UNITS		6-7		
TOTAL UNITS		31-33		

RECOMMENDED but not required:

▲ SHMET 271AD	Work Experience Sheet Metal (F,SP)	2		
▲ SHMET 272AD	Work Experience Sheet Metal (F,SP)	3		
▲ SHMET 273AD	Work Experience Sheet Metal (F,SP)	4		
SHMET 420AD	Sheet Metal Fabrication(F,SP, S)	2		
SHMET 421AD	Sheet Metal Layout (F,SP, S)	1		
SHMET 423AD	Sheet Metal Layout (F,SP)	3		
WELD 400 Band	Welding	2		

LEGEND

▲ This course has a co-requisite.
 (SP = Spring) (S = Summer) (F = Fall) (INF = Infrequently) = Represents general frequency of course offering

GRADUATION REQUIREMENTS

For CERTIFICATE OF ACHIEVEMENT:

Complete the required units with a minimum cumulative grade point average of 2.0 ("C" average).

For ASSOCIATE IN SCIENCE 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.

In addition to the requirements for the 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).

NOTE: To receive a degree or certificate 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.

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.