

# DRAFTING – ARCHITECTURAL (Occupational Program)

## Curriculum Guide for Academic Year 2016-2017

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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](http://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**

<u>REQUIRED COURSES</u>		UNITS	In Progress	Completed Grade
	ARCHT 60 <b>OR</b>	Architectural Design <b>OR</b>	8 <b>OR</b>	
	ARCHT 61 &	Architectural Design &	4 &	
†	ARCHT 62	Architectural Design	4	
†	ARCHT 64 <b>OR</b>	Architectural Design <b>OR</b>	8 <b>OR</b>	
†	ARCHT 65 &	Architectural Design &	4 &	
†	ARCHT 66	Architectural Design	4	
†	ARCHT 70A <b>OR</b>	Architectural Design <b>OR</b>	8 <b>OR</b>	
†	ARCHT 71A	Architectural Design	4	
<b>TOTAL UNITS</b>		<b>20-24</b>		

For graduation with an **Associate in Science (A.S.) Degree with a major in Drafting-Architectural**:

- 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.

**Drafting-Architectural Major** 20-24 units  
**General Education/A.S. §** 19 units

- 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.
- Residence for the Degree:** Complete at least 12 semester units of the required 60 semester units in residence at Long Beach City College in order for the college to grant an Associate of Arts and/or an Associate of Science Degree.
- 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 10-12 units** of the required 20-24 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
- 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.

**Associate Degree requirements continue on the following page:**

**Associate Degree requirements continued from the previous page:**

\*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:  
Certificates of Achievement**

**Certificate: Core Skills 3906**

<u>REQUIRED COURSES</u>		UNITS	In Progress	Completed Grade
ARCHT 60 OR	Architectural Design OR	8 OR		
ARCHT 61 &	Architectural Design &	4 &		
† ARCHT 62	Architectural Design	4		
† ARCHT 64 OR	Architectural Design OR	8 OR		
† ARCHT 65 &	Architectural Design &	4 &		
† ARCHT 66	Architectural Design	4		
ARCHT 230	Building Information Modeling (Beginner)	4		
<b>Core Skills Certificate of Achievement TOTAL UNITS</b>		<b>20</b>		

**Certificate: Advanced Skills 3909**

<u>REQUIRED COURSES</u>		UNITS	In Progress	Completed Grade
ARCHT 60 OR	Architectural Design OR	8 OR		
ARCHT 61 &	Architectural Design &	4 &		
† ARCHT 62	Architectural Design	4		
† ARCHT 64 OR	Architectural Design OR	8 OR		
† ARCHT 65 &	Architectural Design &	4 &		
† ARCHT 66	Architectural Design	4		
† ARCHT 70A OR	Architectural Design OR	8 OR		
ARCHT 71A &	Architectural Design &	4 &		
ARCHT 230	Building Information Modeling (Beginner)	4		
<b>Subtotal Units</b>		<b>24</b>		

**IN ADDITION, complete SIX (6) UNITS from the following:**

		UNITS	In Progress	Completed Grade
ARCHT 231	Building Information Modeling, Int.	4		
ARCHT 232	Building Information Modeling, Adv.	4		
ARCHT 240	Introduction to Green Design	3		
ARCHT 241	Introduction to Lead	3		
CARP 311	Carpentry I	3		
DRAFT 210	3D Printing Fundamentals I (FDM)	1.5		
DRAFT 211	Laser Cutting Fundamentals	1.5		
CARP 440	Blueprint Reading for Construction Trade	3		
<b>Subtotal Units</b>		<b>6</b>		

**IN ADDITION, complete THREE - FIVE (3-5) UNITS from the following:**

		UNITS	In Progress	Completed Grade
ELECT 202 OR	Electrical Mathematics, Modern Arithmetic OR	3 OR		
MATH 805 OR	(See available math courses)	3-5		
Higher Math Course				
<b>Subtotal Units</b>		<b>3-5</b>		
<b>Advanced Skill Certificate of Achievement TOTAL UNITS</b>		<b>33-35</b>		

**Certificate of Achievement requirements continue on the following page.**

**Certificate of Achievement requirements continued from the previous page.**

For graduation with a **Core Skills or Advanced Skills Certificate of Achievement**:

1. Complete the **REQUIRED COURSES** listed above with a **minimum cumulative grade point average of 2.0** (“C” average).
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means  
 For the **Core Skills Certificate**, complete at **least 10 units** of the required 19-20 at **Long Beach City College**.  
 For the **Advanced Skills Certificate**, complete at **least 16-18.5** of the required 32-37 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 **Core Skills AND the Advanced Skills Certificate of Achievement**, the following courses are recommended, **BUT ARE NOT REQUIRED** to earn either.

**RECOMMENDED but not required courses:**

DRAFT 203 <b>OR</b>	AutoCAD II, Advanced Concepts <b>OR</b>	4		
† DRAFT 204	3D Visualization/Animation	4		

**Suggested Sequence of Classes**

This is not an educational plan, as course offerings, student schedules, and circumstances vary. Students 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 Degree includes:

<b><u>First Semester</u></b>	<b><u>Units</u></b>	<b><u>Second Semester</u></b>	<b><u>Units</u></b>
ARCHT 60	8	ARCHT 64	8
<b>Semester Total</b>	<b>8</b>	<b>Semester Total</b>	<b>8</b>
 <b><u>Third Semester</u></b>		 <b><u>Fourth Semester</u></b>	
ARCHT 70A	8	ARCHT Elective	3-4
<b>Semester Total</b>	<b>8</b>	<b>Semester Total</b>	<b>3-4</b>

**Career Opportunities**

Students learn entry-level job skills in architectural drafting.

This **Advanced Skills Certificate of Achievement** will prepare students for an advanced position as an architectural drafter or senior draftsman in a variety of design professional setting and will serve as a foundation for specialization.

This **Associate Degree** will prepare students for a design-related career.

**Program Mission and Outcomes**

To create an educational environment where students can achieve their individual goals by providing the necessary knowledge and skills to enter the design field of their choice by using the latest technologies and industry trends.

Outcomes:

- Students develop career awareness, planning, employability skills, work habits, and foundation knowledge necessary for success in the workplace.
- Students will be able to establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the architectural drafting and design field at an entry or advanced level.
- Students possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the built environment and perform tasks required within the architecture and/or environmental design professions.

**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.