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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 (LAC) or (562) 938-3920 (PCC) to schedule a counseling appointment. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to:					
Associate in Science (A.S.)					
Required Major Coursework:			Units	In Progress	Completed Grade
ELECT 253	OSHA Standards for General Industry		2		
CONST 200	Construction Apprenticeship Readiness		7		
CONST 205	Forklift Fundamentals		.5		
CONST 215	Blueprint Reading for Construction Trade		3		
CONST 230	Carpentry Fundamentals		3		
CONST 235	Residential Roof Framing		3		
CONST 240	Finished Carpentry		3		
CONST 245	Residential Stairs		3		
CONST 270	Cost Estimating		3		
CONST 275	Contract Laws and Management		3		
COSA 1	Computer Information Competency		1		
TOTAL UNITS			31.5		

For graduation with an **Associate in Science (A.S) Degree with a major in Construction Technology**

- 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.

Construction Technology Major	31.5 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 15.25 units** of the required 31.5 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.

*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 years 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 31.5 units of required courses as listed in the Associate Degree requirements box on the preceding pages.

REQUIRED COURSES

		In Progress	Completed
TOTAL UNITS	31.5		

For graduation with an Construction Technology **Certificate of Achievement**:

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of “C”** or better, or P if the course is grade 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 15.25 units** of the required 31.5 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
- 3.
4. 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

Program of study leading to:
Home Remodeling Certificate of Achievement 3949

Home Remodeling Required Major Coursework:

		Units	In Progress	Completed Grade
CONST 205	Forklift Fundamentals	.5		
CONST 215	Blueprint Reading for Construction Trade	3		
CONST 250	Home Remodeling Fundamentals	2		
CONST 255	Home Remodeling – Basic Carpentry	2		
CONST 260	Home Remodeling – Interior Construction	2		
CONST 265	Home Remodeling – Exterior Construction	2		
CONST 270	Cost Estimating	3		
CONST 275	Contract Law and Management	3		
COSA 1	Computer Information Competency	1		
TOTAL UNITS		18.5		

For graduation with a **Home Remodeling Certificate of Achievement**:

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of “C”**.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 9.25 units** of the required 18.5 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.

Program of study leading to:
Home Remodeling Certificate of Completion 4163

Home Remodeling Required Major Coursework:		HOURS	In Progress	Completed Grade
CONST 606	Workplace Competency Skills	18		
CONST 615A	Home Remodeling – Tiling	27		
CONST 615B	Home Remodeling – Drywall	27		
COSNT 615C	Home Remodeling – Painting	27		
TOTAL HOURS		99		

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.

Program of study leading to:
Construction Apprenticeship Readiness Certificate of Achievement 3953

Home Remodeling Required Major Coursework:		Units	In Progress	Completed Grade
CONST 200	Construction Pre-Apprenticeship	7		
COSA 1	Computer Information Competency	1		
BCOM 262	Soft Skills for the Workplace	1		
TOTAL UNITS		9		

For graduation with a **Construction Pre-Apprenticeship Certificate of Achievement:**

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of “C”**.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 4.5 units** of the required 9 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.

Program of study leading to:
Construction Apprenticeship Readiness Certificate of Completion 4953

Construction Pre-Apprenticeship Required Major Coursework:		HOURS	In Progress	Completed Grade
CONST 600	Construction Pre-Apprenticeship Readiness	180		
COSA 601	Computer Information Competency	36		
TOTAL HOURS		216		

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.

Program of study leading to:
Forklift Operator Certificate of Completion: 4954

Forklift Operator Required Major Coursework:		HOURS	In Progress	Completed Grade
CONST 605	Forklift Fundamentals	18		
CONST 606	Workplace Competency Skills	18		
TOTAL HOURS		36		

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.

Career Opportunities

This **Associate Degree or Certificate of Achievement** is a two-year program leading to the Associate in Science (A.S.) degree. This degree will help students succeed after transferring to a CSU or UC School Computer Science major program. Students wishing a bachelor’s degree (transfer program) should meet with a counselor to discuss transferability of courses.

Program Mission and Outcomes

Program Student Learning Outcomes (A.S. and Certificate of Achievement Construction Technology):

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs):
- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools.

Program Student Outcomes (Certificate of Achievement - Home Remodeling):

- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools.

Program Student Outcomes (Certificate of Completion - Home Remodeling):

- Demonstrate the technical and organizational employability skills required by the construction industry.
- Develop and complete a tiling project that adheres to industry standards utilizing proper tools and techniques.
- Apply, understand, and evaluate the techniques, tools, and materials used for cutting, banging, taping and texturing drywall techniques.
- Develop and prepare surfaces for the application of paint to specified industry requirements.

Program Student Outcomes (Certificate of Completion – Construction Pre-Apprenticeship):

- Demonstrate the ability to attain the institutional Student Learning Outcomes.
- Demonstrate the Technical and organization employability skills required by the construction industry.
- Demonstrate knowledge of safety techniques when operating construction tools and equipment.
- Differentiate and evaluate the uses and standards of computer hardware and software.

Program Student Outcomes (Certificate of Completion – Forklift Operator):

- Demonstrate the ability to operate a forklift so that the overall operation of this equipment is within the Occupational Safety Health Administration (OSHA) standards.
- Identify and develop tools needed to obtain a job in construction (resume, cover letter, application).

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.