

COURSE OUTLINE**Course:** 13333 ARCHITECTURAL DRAFTING I**Total Course Hours:** 360.00**CBEDS Title:** TECHNICAL DRAFTING**CBEDS #:** 5703**Job Title(s):**

Architect, Architectural Drafter, Plan Checker, Plan Reader, Estimator, Construction Technologies, Project Manager, Project

Prerequisites:

Successful completion of a High School Drafting or ROP Engineering Drawing course

Course Description:

Architectural Drafting prepares students for a variety of careers related to the field of architecture. The student will be involved in creating the drawings required for the design and construction of residential buildings. Students will practice manual drafting techniques to complete a set of working plans for a single family residence. At the end of the course the student will produce a portfolio sufficient to compete for an entry level drafting position.

Available software includes: 3D Home Architect Deluxe, Microsoft Word, Microsoft Power Point.

Integrated throughout the course are academic and CTE standards, which include safety, communication, technology, ethics, career planning and other employability skills. This lays the basic foundation of architecture and construction.

Hours	
Class	OJT

Occupational Competencies

1-7 on the Course Outline are generic to all BVROP courses and include the BVROP Student Outcomes

3.00	1	<u>ORIENTATION</u>
		A Identifies and discusses course objectives and competencies
		B Discusses ROP Student Outcomes
		C Explains class attendance and behavior objectives
3.00	2	<u>HEALTH, SAFETY AND ENVIRONMENTAL MANAGEMENT</u>
		A Describes accident procedure
		B Demonstrates appropriate safety practices (e.g. bending, lifting, etc.)
		C Demonstrates knowledge of classroom procedures and drills (e.g. earthquake, fire and emergency)
3.00	3	<u>ETHICS AND LEGAL RESPONSIBILITIES</u>
		A Defines sexual harassment and discusses tactics for handling harassment situations
		B Applies appropriate workplace behavior and standards
3.00	4	<u>LEADERSHIP AND TEAMWORK</u>
		A Describes the characteristics and benefits of teamwork and leadership.
		B Demonstrates ability to make appropriate decisions
		C Works well with others and gives/takes constructive criticism
15.00	5	<u>CAREER PLANNING</u>
		A Prepares a finished, professional portfolio showing the best work that has been completed during the class
		B Locates job opportunities through the use of want-ads and placement agencies
		C Visits at least one facility related to area of training and observes jobs performed
		D Completes a job application correctly
		E Prepares for and critiques a simulated employment interview
		F Discusses employee benefits and rights as related to the specific occupational job area including gender equity and equal opportunity
		G Identifies acceptable procedures to leave a job
		H Applies for a scholarship
		I Completes a professional resume
		J Demonstrates appropriate personal grooming and dress

Hours	
Class	OJT

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| 3.00 | | <p>6 <u>COMMUNICATION</u></p> <ul style="list-style-type: none"> A Uses effective workplace conversation B Reads and interprets written information and directions C Practices various forms of written communication appropriate to the occupation D Practices presentation skills using current technology |
| 5.00 | | <p>7 <u>STUDENT OUTCOMES</u></p> <ul style="list-style-type: none"> A Demonstrates Occupational Specific, Communication and Critical Thinking Skills B Demonstrates Responsible Work Ethics C Demonstrates Career/Employment Literacy D Demonstrates Effective Use of Technology |
| 40.00 | | <p>8 <u>INTRODUCTION</u></p> <ul style="list-style-type: none"> A Demonstrates knowledge and use of supplies and equipment B Demonstrates lettering C Demonstrates line conventions D Demonstrates measurement scales E Defines technical math F Applies knowledge of basic construction techniques G Demonstrates knowledge of Architectural Graphic Standards H Discusses current Building Codes |
| 75.00 | | <p>9 <u>MANUAL DRAFTING TOOLS & EQUIPMENT</u></p> <ul style="list-style-type: none"> A Demonstrates use of a Protractor B Demonstrates use of templates C Demonstrates use of scales D Demonstrates use of a Lettering Guide E Demonstrates use of Triangles F Demonstrates use of a Parallel Rule G Demonstrates use of an Eraser Shield H Demonstrates use of a French Curve I Applies appropriate Line Weights |
| 45.00 | | <p>10 <u>WORKING DRAWINGS & CONVENTIONS</u></p> <ul style="list-style-type: none"> A Demonstrates sketching B Demonstrates site plans C Demonstrates floor plans D Demonstrates electrical plans E Demonstrates foundation plans and details F Demonstrates roof/framing plans G Demonstrates framing sections and details H Demonstrates building sections I Demonstrates exterior elevations J Demonstrates interior elevations K Demonstrates schedules (door/window/finish) L Demonstrates notes and specifications |
| 45.00 | | <p>11 <u>REPRODUCTION TECHNIQUES</u></p> <ul style="list-style-type: none"> A Demonstrates procedure and techniques for large format bond copies B Demonstrates procedure for printers/plotters |
| 30.00 | | <p>12 <u>DIMENSIONING</u></p> <ul style="list-style-type: none"> A Demonstrates architectural dimensioning standards B Demonstrates leaders and notes |

Hours	
Class	OJT

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45.00		13 <u>PRECISION MEASUREMENT</u>
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- A Demonstrates use of a protractor
- B Demonstrates use of architectural scale
- C Demonstrates use of engineering scale

45.00		14 <u>PROBLEMS/ADVANCED PROBLEMS</u>
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- A Demonstrates knowledge of single story residence
- B Demonstrates knowledge of multi-story residence
- C Demonstrates and discusses perspectives - one and/or two point
- D Presents a power point 3D walk-through of proposal design
- E Creates a framing model to scale

Additional Course Information

This course articulates with Chaffey College and Mt. San Antonio Colleges.

TOTAL HOURS

Class	OJT	Course
360.00	0.00	360.00