



COURSE OUTLINE : STV 153

N Non-Credit

COURSE ID

PROPOSAL

COURSE DISCIPLINE : STV

COURSE NUMBER : 153

COURSE TITLE (FULL) : Drafting and Basic Design Mirrored Course

COURSE TITLE (SHORT) : Drafting and Basic Design Mirrored Course

CCC ACADEMIC SENATE DISCIPLINE: Short Term Vocational

CATALOG DESCRIPTION

STV 153 is a mirrored course for ARCH 101 that offers limited seating through noncredit. It covers the fundamentals of drafting techniques used in architectural drawing, and the basic design procedure relative to good residential planning. The course studies residential building codes, drafting of working drawings, scale drawings of construction details, framing concepts, and proper dimensioning techniques. Lecture 27 hours/Laboratory 81 hours.

Total Lecture Units:0.00

Total Laboratory Units: 0.00

Total Course Units: 0.00

Total Lecture Hours:27.00

Total Laboratory Hours: 81.00

Total Laboratory Hours To Be Arranged: 0.00

Total Student Contact Hours: 108.00

Total Faculty Contact Hours: 81.00

Total Out-of-Class Hours: 54.00

Recommended Preparation: ART 130 and ENGL 100 or ESL 141.



ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ART	130	2-D Foundations	demonstrate a working knowledge and understanding of the basic elements of a two - dimensional art, including line, shape, texture, value, color and spatial illusion;	Yes
2	ART	130	2-D Foundations	demonstrate a working knowledge and understanding of the organizing principles of two-dimensional art, including balance, proportion, repetition, contrast, harmony, unity, point of emphasis, and visual movement;	Yes
3	ART	130	2-D Foundations	independently produce visual compositions and problem-solving projects that successfully incorporate the basic elements and organizing principles of two-dimensional art;	Yes
4	ART	130	2-D Foundations	make individual aesthetic decisions and judgments related to their own artwork;	Yes
5	ART	130	2-D Foundations	skillfully use a variety of artistic materials, techniques and tools;	Yes
6	ART	130	2-D Foundations	translate ideas and visual experience into images using both formal and conceptual approaches;	Yes
7	ART	130	2-D Foundations	discuss, critique and evaluate their own two-dimensional compositions, as well as those of their classmates;	Yes
8	ART	130	2-D Foundations	discuss and write a critical evaluation of two-dimensional art using the appropriate vocabulary and terminology pertaining to the basic elements and organizing principles of two-dimensional art;	Yes
9	ART	130	2-D Foundations	examine, compare and analyze historical and contemporary examples of two-dimensional art, within a global context.	Yes



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10	ESL	141	Grammar and Writing IV	<p>Compose a 400 to 450-word thesis-based essay which:</p> <p>(a) summarizes and cites appropriately a reading passage provided as a prompt,</p> <p>(b) includes a clear thesis statement,</p> <p>(c) uses evidence to support the thesis,</p> <p>(d) shows clear organization into an introduction, body, and conclusion, and</p> <p>(e) uses appropriate rhetorical modes such as comparison/contrast, cause/effect, and persuasion in order to support a thesis.</p>	Yes
11	ENGL	100	Writing Workshop	Read, analyze, and evaluate contemporary articles and stories to identify topic, thesis, support, transitions, conclusion, audience, and tone;	Yes
12	ENGL	100	Writing Workshop	read, analyze, and evaluate contemporary articles and stories for the comprehension of difficult content and the identification of main ideas and (topic-based) evidence;	Yes
13	ENGL	100	Writing Workshop	read, analyze, and evaluate student compositions for unity, development, use of evidence, interpretation, coherence, and variety of sentence form;	Yes
14	ENGL	100	Writing Workshop	write a summary of a contemporary article or story with correct citation techniques;	Yes
15	ENGL	100	Writing Workshop	write an argumentative essay that has an introduction, body paragraphs, and a conclusion, demonstrating a basic understanding of essay organization;	Yes
16	ENGL	100	Writing Workshop	write an argumentative essay that addresses the topic, is directed by a thesis statement, uses appropriate textual evidence, develops logical interpretations, and concludes with some compelling observations;	Yes
17	ENGL	100	Writing Workshop	write an argumentative essay that integrates the ideas of others (i.e., authors) through paraphrasing, summarizing, and quoting with correct citation techniques;	Yes
18	ENGL	100	Writing Workshop	write an argumentative essay that generates novel ideas (those that add to the conversation rather than repeating the author's ideas) related to the topic and the readings;	Yes



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19	ENGL	100	Writing Workshop	write compositions (e.g., summaries and argumentative essays) that are easy to read and follow, though some errors in grammar, mechanics, spelling, or diction may exist;	No
20	ENGL	100	Writing Workshop	proofread and edit essays for content, language, citation, and formatting problems.	Yes

EXIT STANDARDS

- 1 Describe the meaning of basic architectural vocabulary terms;
- 2 demonstrate proficiency in drawing on vellum and in the use of drawing instruments by the completion of various drawing assignments;
- 3 describe limited examples of the use of the International Building Code as it applies to residential construction.

STUDENT LEARNING OUTCOMES

- 1 Describe the architectural terminology that are used in a typical architectural project.
- 2 Describe the tools and techniques necessary to draw a typical view of a residential structure using a Computer Aided Design (CAD) software program.
- 3 Evaluate a building by using the International Building Code for purposes of ensuring the safety of the building occupants.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Introduction to the Study of Architecture <ul style="list-style-type: none"> • Function and design of a residential structure • Basic purpose of shelter • Room sizes • Traffic patterns within the home • Building code requirements • Architectural terminology • Styles of architecture • Past/Historic styles • Present trends • Architectural practice • Drafter/designer • Architect • Engineer 	4	1	5



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2	Architectural Symbols <ul style="list-style-type: none"> • Material symbols • Interior section symbology • Exterior materials • Electrical and plumbing symbols • Door and window types and symbols 	1	4	5
3	Projection Methods <ul style="list-style-type: none"> • Visualization practice • Orthographic projection • Isometric projection • Discussion of perspective projection 	2	5	7
4	Architectural Lettering <ul style="list-style-type: none"> • Lettering styles and practice • Dimensioning 	1	4	5
5	Construction Techniques <ul style="list-style-type: none"> • Wood framing methods • Concrete foundation • Application of finish materials • Roughing in plumbing and electrical fixtures • Building code requirements 	4	6	10
6	Building Materials and Components <ul style="list-style-type: none"> • Wood, stone, steel, concrete, brick, adobe • Uses • Limitations • Reference manufacturer sources • Sweet's catalog • Other manufacturer's sources • Use of the Internet foresearch 	3	8	11
7	Orientation of the Home <ul style="list-style-type: none"> • Effects of weather and sunlight • Setback and size limitations • Zoning and economics 	1	4	5



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8	<p>Architectural Working Drawings</p> <ul style="list-style-type: none"> • Title sheet • Site plan • Floor plan • Foundation plan • Foundation details • Section views • Electric plan • Framing plan • Exterior elevations 	4	34	38
9	<p>Architectural Renderings</p> <ul style="list-style-type: none"> • Proper use of pencils and other media used in architecture • Sketching and delineation of architectural forms • Landscape forms 	1	2	3
10	<p>Use of the AutoCAD Computer Aided Design (CAD)</p> <ul style="list-style-type: none"> • SoftwareUse of CAD tools used in architectural drafting <ul style="list-style-type: none"> ◦ Placing lines Adding dimensions ◦ Use of layers ◦ Creating and using blocks ◦ Proper scale for various architectural drawings ◦ Use of hatch patterns ◦ Placing text ◦ Use of the array tool ◦ Printing the drawing 	5	9	14
11	<p>Presentation of Final Project</p> <ul style="list-style-type: none"> • Portfolio of completed drawings • Rendering of display drawings • Purpose of architectural models • Study models • Finished models • Computer models • Final critique 	1	4	5
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OUT OF CLASS ASSIGNMENTS

- 1 essay (e.g. write a description of job requirements for a drafter/designer and explain why these are necessary);
- 2 group projects (e.g. complete a design project such as a kitchen including cabinetry design).

METHODS OF EVALUATION

- 1 vocabulary quizzes. (e.g. eight quizzes of 10 terms each);
- 2 midterm examination and performance test. (e.g. timed drawing test of a basic architectural project);
- 3 final individual project. (e.g. drawings of a two-bedroom project with eight sheets of working drawings);
- 4 final examination and performance test. (e.g. timed drawing test of a small residential project consisting of a floor plan, elevation and foundation detail).

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	IBSN	Date
The Professional Practice of Architectural Working Drawings	Required	New York: John Wiley	5	Print	Osama,Wakita	9781118880524	2017