

ARCH108 : Architectural Print Reading

General Information

Author:	<ul style="list-style-type: none">David D Martin
Course Code (CB01) :	ARCH108
Course Title (CB02) :	Architectural Print Reading
Department:	ARCH
Proposal Start:	Fall 2024
TOP Code (CB03) :	(0201.00) Architecture and Architectural Technology
CIP Code:	(04.0901) Architectural Technology/Technician.
SAM Code (CB09) :	Possibly Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000413055
Curriculum Committee Approval Date:	05/22/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	ARCH 108 covers all aspects of architectural print reading including orthographic projection, basic view utilization, residential and commercial standards, dimensioning techniques, International Building Code (IBC), and architectural terminology including abbreviations and symbols. Note: ARCH 108 may not be taken for credit by students who have credit for ARCH 101, 102, 103, 105.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none">Credit
Author:	

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none">Architecture
Alternate Discipline:	No value
Alternate Discipline:	No value

Course Development

Basic Skill Status (CB08) Course is not a basic skills course. <input type="checkbox"/> Allow Students to Gain Credit by Exam/Challenge	Course Special Class Status (CB13) Course is not a special class. Pre-Collegiate Level (CB21) Not applicable.	Grading Basis <ul style="list-style-type: none">Grade with Pass / No-Pass Option Course Support Course Status (CB26) Course is not a support course
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Transferability & Gen. Ed. Options

General Education Status (CB25)

Not Applicable

Transferability

Transferable to CSU only

Transferability Status

Approved

Units and Hours

Summary

Minimum Credit Units (CB07)	3
Maximum Credit Units (CB06)	3
Total Course In-Class (Contact) Hours	54
Total Course Out-of-Class Hours	108
Total Student Learning Hours	162

Credit / Non-Credit Options

Course Type (CB04)

Credit - Degree Applicable

Noncredit Course Category (CB22)

Credit Course.

Noncredit Special Characteristics

No Value

Course Classification Code (CB11)

Credit Course.

Variable Credit Course

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience

Education Status (CB10)

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	3	6
Laboratory Hours	0	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	0
Course In-Class (Contact) Hours	
Lecture	54
Laboratory	0
Studio	0
Total	54
Course Out-of-Class Hours	
Lecture	108
Laboratory	0
Studio	0
Total	108

Time Commitment Notes for Students

No value

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
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No Value	No Value	No Value	No Value
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Pre-requisites, Co-requisites, Anti-requisites and Advisories

No Value

Entry Standards

Entry Standards

Respond to verbal and written questions about course topics.

Course Limitations

Cross Listed or Equivalent Course

Specifications

Methods of Instruction

Methods of Instruction	Lecture
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Methods of Instruction	Multimedia
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Methods of Instruction	Field Activities (Trips)
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Methods of Instruction	Guest Speakers
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Out of Class Assignments

- Individual projects (e.g. summary of best practices for reading residential plans)
- Group projects (i.e. homework problems, problem solving demonstrations, discussion on textbook topics)

Methods of Evaluation

Rationale

Project/Portfolio	Weekly exercises. (e.g. exercises will be provided from the textbook)
Exam/Quiz/Test	Midterm examination
Exam/Quiz/Test	Quizzes based on textbook exercises
Exam/Quiz/Test	Final examination and performance test. (e.g. questions will be given from a residential and commercial set of drawings)

Textbook Rationale

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
Brown, W.	Print Reading for Construction: Residential and Commercial	Tinley Park: Goodheart-Willcox	2019	978-1631269226

Other Instructional Materials (i.e. OER, handouts)

No Value

Materials Fee

No value

Learning Outcomes and Objectives

Course Objectives

Identify the different types of projections.

Identify the parts of a residential and commercial structure.

Describe the concepts of residential and commercial building construction.

Identify portions of an architectural residential and commercial plans.

Describe the types of architectural documentation techniques.

SLOs

Describe the different types of projections and how they are shown on a drawing.

Expected Outcome Performance: 70.0

<i>ILOs</i> Core ILOs	Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.
	Communicate clearly, ethically, and creatively; listen actively and engage respectfully with others; consider situational, cultural, and personal contexts within or across multiple modes of communication.
	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
<i>ARCH</i> Architectural Drafting and Design	Demonstrate skills in the production of working drawings of residential and commercial structures; discuss how design/drawing techniques, application of the International Building Code (IBC), building construction techniques, and other standards affect the design of their structure.
	Develop a portfolio of student work (this portfolio will show the student's best work from different classes within the department, discuss building construction techniques, principles, and building code)
<i>ARCH</i> Architectural Drafting & Design - Certificate	Demonstrate skills in the production of working drawings of residential and commercial structures; discuss how design/drawing techniques, application of the International Building Code (IBC), building construction techniques, and other standards affect the design of their structure.
	Develop a portfolio of student work (this portfolio will show the student's best work from different classes within the department, discuss building construction techniques, principles, and building code)

Identify the principles, parts, methods, and materials used for residential and commercial building construction.

Expected Outcome Performance: 70.0

<i>ILOs</i> Core ILOs	Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.
	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
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Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

Orthographic Projection (8 Hours)

- Plan and elevation views
- Sectional and detail views
- View utilization and placement

Dimensional Techniques (8 Hours)

- Scale reading
- Architectural symbols
- Architectural printing
- Architectural notes
- Bills of material
- Standard architectural callouts

Residential Plan Reading (20 Hours)

- Floor plans
- Site/plot plans
- Framing plans
- Detailing
- Use of Schedules
- Electrical plans
- Plumbing plans
- Heating and air conditioning
- Energy conservation
- International Building Code

Commercial Plan Reading (18 Hours)

- Heavy timber construction
- Masonry construction
- Reinforced concrete construction
- Structural steel construction
- Fire protection
- Metal and wood trusses

Total Hours: 54

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

No Value

Repeatability

Not Repeatable

Justification (if repeatable was chosen above)

No Value

Resources

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liaison?

No Value

Did you contact the DEIA liaison?

No

Were there any DEIA changes made to this outline?

No Value

If yes, in what areas were these changes made:

No Value

Will any additional resources be needed for this course? (Click all that apply)

No Value

If additional resources are needed, add a brief description and cost in the box provided.

No Value