

# ARCH 150: INTRODUCTION TO STRUCTURAL CONCEPTS

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## In Workflow

1. DOD Committee Chair (estiokom@csus.edu)
2. DOD Chair (rpratt@csus.edu)
3. ALS College Committee Chair (irwin@csus.edu; j.gallegos@csus.edu)
4. ALS Dean (mwilson@csus.edu)
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6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (gardner@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (catalog@csus.edu)
10. Registrar's Office (k.mcfarland@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Thu, 13 Apr 2023 21:30:17 GMT  
PJ Carlino (pj.carlino): Rollback to Initiator
2. Thu, 14 Sep 2023 17:18:32 GMT  
Mario Estioko (estiokom): Approved for DOD Committee Chair
3. Thu, 14 Sep 2023 17:51:28 GMT  
Richard Pratt (rpratt): Approved for DOD Chair
4. Thu, 21 Sep 2023 18:08:58 GMT  
Jacqueline Irwin (irwin): Rollback to Initiator
5. Fri, 22 Sep 2023 16:58:06 GMT  
Mario Estioko (estiokom): Rollback to Initiator
6. Fri, 22 Sep 2023 22:26:37 GMT  
Mario Estioko (estiokom): Approved for DOD Committee Chair
7. Fri, 22 Sep 2023 23:40:30 GMT  
Richard Pratt (rpratt): Approved for DOD Chair
8. Fri, 22 Sep 2023 23:55:04 GMT  
Jacqueline Irwin (irwin): Approved for ALS College Committee Chair
9. Sun, 24 Sep 2023 21:09:33 GMT  
Melinda Wilson Ramey (mwilson): Approved for ALS Dean

## New Course Proposal

Date Submitted: Fri, 22 Sep 2023 21:04:03 GMT

**Viewing: ARCH 150 : Introduction to Structural Concepts**

**Last edit: Fri, 22 Sep 2023 21:04:02 GMT**

Changes proposed by: Andrew Anker (101012076)

**Contact(s):**

Name (First Last)	Email	Phone 999-999-9999
Andrew Anker	aanker@csus.edu	916-278-6394
Carolyn Gibbs	carolyng@csus.edu	916-278-3948

**Catalog Title:**

Introduction to Structural Concepts

**Class Schedule Title:**

Intro to Structural Concepts

**Academic Group: (College)**

ALS - Arts & Letters

**Academic Organization: (Department)**

Design

**Will this course be offered through the College of Continuing Education (CCE)?**

No

**Catalog Year Effective:**

Fall 2024 (2024/2025 Catalog)

**Subject Area: (prefix)**

ARCH - Architecture

**Catalog Number: (course number)**

150

**Course ID: (For administrative use only.)**

TBD

**Units:**

3

**Is the only purpose of this change to update the term typically offered or the enforcement of existing prerequisites at registration?**

No

**In what term(s) will this course typically be offered?**

Spring term only

**Does this course require a room for its final exam?**

Yes, final exam requires a room

**Does this course replace an existing experimental course?**

No

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

This class is required for the new B.F.A. in Architectural Studies. The Form B for this major is being submitted simultaneously with this Form A.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

Introduction to structural principles as they apply to buildings. Course content includes an historical overview of how structural engineering has shaped buildings; an in-depth analysis of structural forces, including compression, tension, and lateral loads; and an examination of the structural properties of wood, concrete, masonry and steel.

**Are one or more field trips required with this course?**

No

**Fee Course?**

No

**Is this course designated as Service Learning?**

No

**Is this course designated as Curricular Community Engaged Learning?**

No

**Does this course require safety training?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Does this course have prerequisites?**

Yes

**Prerequisite:**

Student must have completed their G.E. Area B4 requirement.

**Prerequisites Enforced at Registration?**

Yes

**Does this course have corequisites?**

No

**Graded:**

Letter

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**

Lecture

**Lecture Classification**

CS#02 - Lecture/Discussion (K-factor=1WTU per unit)

**Lecture Units**

3

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**Can this course be repeated for credit?**

No

**Can the course be taken for credit more than once during the same term?**

No

**Description of the Expected Learning Outcomes and Assessment Strategies:**

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre- and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	recognize major historical developments in building structures	exams, final, homework assignments
2	explain the structural concepts that underlie the design of historical and contemporary buildings	design project, exams, final, homework assignments
3	compare the structural characteristics of wood, steel, concrete and masonry	exams, final, homework assignments
4	solve mathematical equations to calculate the forces experienced by building structures	design project, exams, final, homework assignments
5	design simple building structures	design project

**Attach a list of the required/recommended course readings and activities:**

INTD 150\_syllabus.docx

**For whom is this course being developed?**

Majors in the Dept

**Is this course required in a degree program (major, minor, graduate degree, certificate?)**

Yes

**Has a corresponding Program Change been submitted to Workflow?**

Yes

**Identify the program(s) in which this course is required:**

**Programs:**

BFA in Architecture Studies

**Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?**

No

**Will there be any departments affected by this proposed course?**

No

**I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.**

I/we agree

## **University Learning Goals**

**Undergraduate Learning Goals:**

Competence in the disciplines  
Knowledge of human cultures and the physical and natural world  
Intellectual and practical skills  
Personal and social responsibility

**Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?**

No

## **GE Course and GE Goal(s)**

**Is this a General Education (GE) course or is it being considered for GE?**

No

**Please attach any additional files not requested above:**

ARCH 150\_syllabus.docx

**Reviewer Comments:**

**PJ Carlino (pj.carlino) (Thu, 13 Apr 2023 21:30:17 GMT):** Rollback: Rolled back at the request of the submitter

**Ian Harvey (iharvey) (Thu, 21 Sep 2023 16:49:02 GMT):** Dear Andrew and Carolyn, This is Ian Harvey on behalf of the ALS Curriculum Committee. Your course proposal looks good with the exception of the course title on the syllabus which reads: INTD 150 instead of ARCH 150.

**Jacqueline Irwin (irwin) (Thu, 21 Sep 2023 18:08:59 GMT):** Rollback: Dear Andrew, Please see suggestions for revision from Ian. Once your proposal has been revised as per their recommendations, please resubmit and send me an email so I know that your proposal is ready to move forward. Thank you, Jacqueline, ALS Curriculum Chair

**Mario Estioko (estiokom) (Fri, 22 Sep 2023 16:58:06 GMT):** Rollback: Please see comments by Ian Harvey.

Key: 14915