



## Continuing and Professional Education

### CONSTRUCTION PLAN READING AND SPECIFICATIONS

*3 Academic Credit Units*

It is crucial for anyone involved in construction projects to have the ability to read and understand building plans and specifications. Whether you're in the field or in the office, you need to know how the site plan affects the building plan, what building departments look for in plan checks, and how plans affect contracts.

This introductory course focus on how plans are organized and drawn, how to read and understand building plans and project specifications, and applying that knowledge from the initial conceptual drawings to final construction plans and documentation.

Past guest lecturers have included designers, contractors, specifiers, and building inspectors who discuss their specific field of expertise and the application of construction plans in their daily duties.

#### Goals and expectations

This fast pace course focuses on the reading and applying print and plan reading from conceptual drawings through final construction. Its aim is to help students to gain confidence in reading plans and applying that knowledge to the many facets of modern building construction.

#### Technical requirements

The class will be presented in PowerPoint format with regular classroom use of blackboard and flip boards to convey key concepts and practices. Plan reading uses both architectural and engineers scales for measuring, so it is advised you have access to both. Computers are essential for accessing the internet and for email correspondence, so it is highly advised that you have regular access and a reliable internet connection.

### COURSE SYLLABUS AND OUTLINE

#### WHEN

TBD

#### WHERE

Sutter Square Galleria  
2901 K St, Sacramento

Room 200

#### INSTRUCTOR CONTACT

William Stannard

#### CPE PROGRAM ADVISORS

Crystal Babowal

[cbabowal@ucdavis.edu](mailto:cbabowal@ucdavis.edu)

Visit our website for detailed description and quarterly schedule.  
[cpe.ucdavis.edu/construction](http://cpe.ucdavis.edu/construction)

## Required textbooks

Print Reading for Construction (6th Edition), Walter C. Brown & Daniel P. Dorfmueller, ISBN: 9781605258027

## Grades

### Participation

To fully understand the course's content, it is important that class members attend each session and interact in discussions. If for any reason you cannot attend a class session, you should notify the Instructor in advance to ensure that you are on task with homework assignments and class room lectures. Attendance is worth 50 points (5 points per class noted).

### Quizzes

Quizzes and one (1) mid-term will be given on the dates noted in the course schedule. They will cover the assigned reading material as well as class presentations and discussions. The quiz will be worth either 10 or 15 points (as shown on the course schedule) and the Midterm worth 50 points toward your grade.

### Final Exam

A comprehensive final exam will be given on the last day of class. The final will include homework, class lectures and discussions. The final exam is worth 100 points toward your total grade.

### Assignments

Reading assignments are outlined in the course syllabus and are to be completed on the student's own time. At the end of each chapter of the book, questions are to be answered and then discussed in class.

## COURSE SYLLABUS AND OUTLINE

### CONSTRUCTION BLUEPRINT AND PLAN READING

#### Grades

Attendance:	50
Quizzes:	90
Mid-Term:	50
Final:	100
Total:	290 points

A+	97 - 100%	281-290 pts.
A	93 - 96%	270-280 pts.
A-	90 - 92%	261-269 pts.
B+	87 - 89%	252-260 pts.
B	83 - 86%	241-251 pts.
B-	80 - 82%	232-240 pts.
C+	77 - 79%	223-231 pts.
C	73 - 76%	212-222 pts.
C-	70 - 72%	203-211 pts.
D+	67 - 69%	194-202 pts.
D	63 - 66%	183-193 pts.
D-	60 - 62%	174-182 pts.
F	59% & below	0 - 174 pts

## **COURSE SYLLABUS AND OUTLINE**

### **CONSTRUCTION BLUEPRINT AND PLAN READING**

#### **Incomplete Work**

You may receive an interim grade of “Incomplete” (I) if your work is of passing quality, but a small portion of the course requirements is incomplete for good cause (e.g. illness or other serious problem).

- It is your responsibility to discuss with the instructor the possibility of receiving an “I” grade as opposed to a non-passing grade.
- If you receive an “Incomplete” grade, you may earn a passing grade and receive unit credit by completing the remaining coursework satisfactorily.
- The “I” grade can only be replaced when the instructor submits a final grade as determined by the instructor.
- For this class, you will have a maximum of 30 days after the end of the course to submit any missing coursework and receive a passing grade, otherwise the “I” grade will be replaced with “WD” (indicating withdrawn, no academic credit).

#### **Student Behavior**

You are expected to be honest and fair in all your academic work. If you are not, you may be disciplined. You should be familiar with and adhere to

- The University of California Standards of Conduct for Students and
- The UC Davis Academic Code of Conduct at <http://sja.ucdavis.edu>

#### **Special Requirements**

If you have any learning disabilities, let me and your CPE Program Representative know immediately so that we can accommodate them. If you are unable to sit for long periods of time, you may stand in the back of the room. I do not mind if you eat or drink during class, as long as it does not become a distraction.

## COURSE OUTLINE

Date	Topics	Reading Assignment	Assignments and Quizzes
Week One March 28	Overview of Class Syllabus Introduction to Book and Plans <b>Construction Drawing Organization</b> Plan-set Information Types of Prints Uniform Drawing System	Units 1 & 4	Quiz (10 points)
Week Two April 4	<b>Plan Lines and Symbols</b> Alphabet of Lines Construction Drawings Construction Math Measuring Drawing Scales	Units 2 - 5	Quiz (10 points)
Week Three April 11	<b>Reading Prints</b> Site Plans Plan Views Architectural Drawings	Units 5 & 8	1 <sup>st</sup> Plan Reading Quiz (15 points)
Week Four April 18	<b>Foundations &amp; Structural Prints</b> Footings, grade beams, slabs Structural components OST (On Screen Takeoff)	Units 10 & 11	2 <sup>nd</sup> Plan Reading Quiz (15 points) Quiz (10 points) OST (On Screen Takeoff)
Week Five April 25	<b>Framing: Residential &amp; Light Commercial *</b> Components of Framing Roof Framing Load-bearing Partitions	Unit 12	Quiz (10 points)
Week Six May 2	<b>MEP</b> Mechanical Plans Electrical Drawings Plumbing Prints	Units 13, 14 & 15	MIDTERM - (50 points)
Week Seven (Saturday) May 13	<b>Site Visit</b> Start in Class 9:00-12:00 lunch and travel Heritage Vineyard 1:30-4:30 (on Gerber and Bradshaw Rd)		Quiz (10 points)
Week Eight May 16	<b>Specifications &amp; Materials</b> Specifications CSI Format Welding Symbols Estimating	Units 6, 7, 16 & 17	Quiz (10 points)
Week Nine May 23	<b>FINAL</b>	Overview Surveys	FINAL (100 points)