

Professor Henry Koffman

General Construction Engineering

How well did you learn?				
Not at all → Very Well				
1	2	3	4	5

CIRCLE YOUR RATINGS
↓ BELOW ↓

COURSE OBJECTIVES AND OUTCOMES

Goal. This course is about the theory of estimating, quality surveying, unit cost synthesis and analysis, bid organization and preparation, competitive simulations and exercises.

Objective. Students will understand contractor specialties

Outcome. Students will understand and know about the various segments of construction

1	Plan Reading	1	2	3	4	5
2	Computer-Assisted Estimating	1	2	3	4	5
3	Specifications	1	2	3	4	5
4	Equipment	1	2	3	4	5
5	Earthwork	1	2	3	4	5
6	Concrete	1	2	3	4	5
7	Ro. Lumber	1	2	3	4	5
8	Finish Materials	1	2	3	4	5
9	Plumbing	1	2	3	4	5
10	Electrical	1	2	3	4	5
11	HVAC	1	2	3	4	5
12	Profit	1	2	3	4	5
Objective. Professional Skills						
Outcome. Students will						
13	Be familiar with construction estimating	1	2	3	4	5
14	Understand the principles of construction estimating	1	2	3	4	5
15	Understand Ethics	1	2	3	4	5
16	Differentiate various ethical behaviors	1	2	3	4	5
17	Know the Code of Ethics	1	2	3	4	5
Objective. Networking						
Outcome. Students will understand the value of networking by						
18	Joining professional organizations (AGC, ASCE, etc)	1	2	3	4	5
19	Attending professional conferences, meetings, symposium, etc?	1	2	3	4	5
20	Learning about professional registration	1	2	3	4	5
Objective. Become familiar with and understand principles of construction estimating						
Outcome. The students will know and understand						
21	Construction vocabulary	1	2	3	4	5
22	Critical path method	1	2	3	4	5
23	Unbalancing	1	2	3	4	5
24	The construction process	1	2	3	4	5

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COURSE OBJECTIVES AND OUTCOMES

RELATIONSHIP OF CIVIL ENGINEERING PROGRAM COURSE OBJECTIVES TO OUTCOMES XXXXXXXXXXXXXXXXXXXX

Objective: The Civil (Environmental) Engineering program is designed to teach beyond the technical content of the curriculum and prepare the students to utilize what they learn in a professional setting. Engineering projects and research activities enlist skills and demonstrate ability to understand the subject matter and communicate in a proficient manner. This course contributes to the overall program goals in the following ways.

Outcome. Engineering programs must demonstrate that their students attain

a	An ability to apply knowledge of mathematics, science, and engineering	1	2	3	4	5
d	An ability to function on multi-disciplinary teams	1	2	3	4	5
e	An ability to identify, formulate, and solve simple engineering problems	1	2	3	4	5
f	An understanding of professional and ethical responsibility	1	2	3	4	5
g	An ability to communicate effectively	1	2	3	4	5
h	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	1	2	3	4	5
i	A recognition of the need for, and an ability to engage in life-long learning	1	2	3	4	5
j	A knowledge of contemporary issues	1	2	3	4	5
k	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	1	2	3	4	5