



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Estimating
Course Number: CET226

Required Materials

Textbook(s): R.S. Means Building Construction Cost Data 2019 (2017, 2018, 2020, or 2021 will also work),
(Required) Estimating in Building Construction: Frank R. Dagostino & Steven J. Peterson: seventh edition (Optional)

Two Sets of prints available in the SSC Bookstore: One set is for practice building project You can get this now.
The other set is for the Mid-Term project. The instructor will let you know when prints are ready to purchase

Required Readings: None

Additional Materials: Engineering & Architectural Scales to be on you during EACH CLASS
Scientific Calculator to be on you during EACH CLASS
Thumb/Flash drive to save your work or the use of/access to google drive

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Introduction to the class, Syllabus, policies, overall grade breakdown, Textbook contents and discussion Introduction to the principles of Estimating, Labor, Material, Equipment, Subcontract, Labor cost. Pay scale/rate versus actual cost, Labor production rates, Crew size and makeup, Material unit
2	Site Work, Cut and Fill, Profile method, 4-Points method, Cut and fill exercise
3	Sewer Systems, Sanitary Sewer, Storm Sewer, Catch basins and covers, manholes and covers, Sewer systems exercise
4	Paving Systems, Fine grading, Concrete paving, Asphalt paving, Parking lots, Paving exercise
5	Foundation systems, Foundation excavation, Concrete footings, Foundation walls: CMU & Concrete Slab on grade floors, Basements foundation, Frost wall foundation, Foundation Exercise
6	Wall Systems, Wood frame walls, Masonry walls, Roof Systems, Truss and Rafter roof, Open Web Joist roof structure, Flat roofing assemblies, Shingled roofs assemblies, Exercise
7	Interior Envelope, Roof and Wall Insulation, Interior partitions, Perimeter furring, Metal studs, Doors and Windows, Drywall, Paint, Floor covering, Trim work, Exercise
8	HVAC & Plumbing, Electrical, Square footage method, Exercise, Mid-Term project overview, One on one assistance and discussion
9	Students are expected to work on their Mid-Term project
10	Open Lab, One on one assistance and discussion on Midterm Project
11	Midterm project due, Final Project assignment, Team assembly and discussion, Teamwork progress calendar
12	Final Project assignment, Team assembly and discussion, Teamwork progress calendar
13	Open Lab, Final designs evaluation and discussion, Teams progress monitoring
14	Open Lab, Preliminary estimates evaluation and discussion, Use of Scheduling Software for final project, Export estimates to scheduling, Teams progress monitoring
15	Open lab, Final estimate and schedule discussion, Presentation compilation and preparation, Teams progress monitoring
16	Open lab; Practice presentation, Evaluations, and final modifications, Practice final Presentations and feedback, Final Presentations and evaluations