

The University of Texas at Tyler  
Department of Construction Management

**CMGT 3311  
Construction Estimating**

**Course Syllabus (Fall 2022)**

**Date: August 10, 2022. This version supersedes all earlier versions.**

Time & Venue	Class Meeting Time/Dates/ Room  <b>Lecture Room:</b> Ratliff Building South 1031 <b>Lab:</b> none  <b>Date:</b> Monday/Wednesday/Friday <b>Time:</b> 9:05 AM – 10:00 AM
Instructor	<b>Professor Contact info:</b> Instructor: Dr. Gilbert Abel Office #: 903-565-5890 Office #: RBS 1036 Office Hours: Mon/Wed 10:30 – 2:00 PM, Tuesday 2:00 – 5:00 Email: <a href="mailto:gabel@uttyler.edu">gabel@uttyler.edu</a>
Teaching Assistant	None
Course Website	See UT Tyler’s Canvas website. Canvas will be used to manage the course material for the semester. There you will find announcements, homework assignments, solutions, handouts, lesson videos, and other material pertaining to the class. <b>Please check there regularly.</b>
Course Objective	Welcome to CMGT 3311 (Construction Estimating), the first of a two course series on estimating. During the upcoming semester you will find our study of Estimating to be interesting, challenging, and rewarding. We will meet according to the course schedule (see Attachment 1) which also includes the course topics. This course is being offered this semester as a hybrid course so some lecture material will be offered online.  Construction Estimating is a systems approach to determining required quantities of construction materials; quantification of various types of foundation systems, structural systems and building envelope systems; excerpts of contract documents from a variety of different building projects.
Course Outcomes	In this course, you will learn to:

	<ol style="list-style-type: none"> <li>1. Read, understand and interpret standard nomenclature in a set of plans.</li> <li>2. Read, understand, and interpret standard specifications.</li> <li>3. Calculate excavation and embankment quantities from survey data on construction drawings.</li> <li>4. Calculate concrete and steel quantities for foundation/concrete wall construction from construction drawings.</li> <li>5. Calculate timber quantities for form work from construction drawings.</li> <li>6. Calculate quantities for structural supports (metal, wood, precast concrete) from construction drawings</li> <li>7. Calculate utility quantities from construction drawings.</li> <li>8. Account for items not specifically called out in construction drawings (curing compounds, nail, screws, etc...).</li> <li>9. Develop a quantity sheet for calculating unit bid pricing or a lump sum bid.</li> </ol>														
Prerequisite	1. None														
Required Text	<p>Course Book:</p> <ol style="list-style-type: none"> <li>1. Textbook: Plan Reading &amp; Material (6st Ed.). by Thomas E. Proctor and Leonard P. Toenjes. (ISBN: 978-0826904843). Publisher. American Technical Publishers; 6th edition (July 1, 2016)</li> <li>2. Print Reading for Residential and light commercial construction Blueprints</li> </ol>														
Grading	<p><b>Exams and Grading:</b></p> <p><b>Course Points Minimum Grade Scale</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Exams (3 x 150 each)</td> <td style="text-align: right;">450 (17%)</td> </tr> <tr> <td style="padding-left: 20px;">Assignments (14 at 50 each)</td> <td style="text-align: right;">700 (26%)</td> </tr> <tr> <td style="padding-left: 20px;">Chapter Review Questions (12)</td> <td style="text-align: right;">720 (26%)</td> </tr> <tr> <td style="padding-left: 20px;">Project</td> <td style="text-align: right;">400 (15%)</td> </tr> <tr> <td style="padding-left: 20px;">Professional Practice Grade</td> <td style="text-align: right;">200 (7%)</td> </tr> <tr> <td style="padding-left: 20px;">Final Examination -</td> <td style="text-align: right;"><u>250 (9%)</u></td> </tr> <tr> <td></td> <td style="text-align: right;">2,720 (100%)</td> </tr> </table> <p><b>Grade Breakdown:</b></p> <p>A = 90 – 100  B = 80 – 89  C = 70 – 79  D = 60 – 69  F = 59 or below</p>	Exams (3 x 150 each)	450 (17%)	Assignments (14 at 50 each)	700 (26%)	Chapter Review Questions (12)	720 (26%)	Project	400 (15%)	Professional Practice Grade	200 (7%)	Final Examination -	<u>250 (9%)</u>		2,720 (100%)
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	<p><b>Note:</b> You may fail this course, if you earn less than 65% on all Exams or if you fail to earn at least 50% on the Final exam, regardless of your course grade.</p>
Professional Practice	<p>Professional Practice Grade - During this semester, a portion of your grade in this course (approximately 10%) will be derived from what I consider professional practice expectations.</p> <p>5% or 100 points will be allocated to your attendance. (days attended / total possible of in class days). Attendance will be taken on canvas so you can see it and monitor it.</p> <p>5% or 100 points will be allocated to your Participation in one of many UT Tyler Student associations. You must show proof of this affiliation by uploading this proof to the Professional Practice canvas assignment page.</p> <p>Proof includes, but not limited to proof of attendance in a meeting, proof of participation. This can be a club, association, or a temporary fundraiser to support the students in the department. IE: CMSA, ASCE, Honors Society, Student Leadership Association, ITE, IEEE, ASME, SAE, etc.</p>
Exams	<p>There are 3 scheduled for this course.</p> <p>There no midterm examinations (held during the scheduled class time) and no final examination. The exams are <b>TENTATIVELY</b> scheduled for:</p> <ul style="list-style-type: none"> <li>• Exam 1: 150 points</li> <li>• Exam 2: 150 points</li> <li>• Exam 3: 150 points</li> <li>• Final Exam: 250 points</li> </ul> <p>Exams dates may be moved up or pushed back depending on the progress of the lectures. You can use a calculator and instructor-approved reference material. Solutions to exams will <b>NOT</b> be posted. No make-up exams will be given except for medical or other similar hardships where advanced arrangements are made with the instructor; or in case of non-selective medical emergencies with appropriate physician's note or documentation. Other than circumstances described above, failure to take the exam at the scheduled time will constitute a grade of zero on the exam.</p>
General Exam Rules & Cheat Sheet	<p>Exams will be administered online using Canvas. You will be allotted a predetermined amount of time to take the exam.</p>

	The Exam is not group work and if any student is caught cheating, both will be given an “F” for the exam. Again, the exams are self-examinations of the strength and knowledge of the individual student at a given point in the semester.
Calculators	A basic calculator is required for this course.
Field Trip	There are no field trips scheduled for this course.
Final Project	<p>A project will be given. All students are to work on them individually using class design parameters set in the course.</p> <p>The final project test your ability to work as a team as well as your ability to use the techniques discussed in the course to provide an accurate takeoff and binder.</p>
Topical Presentation	At the end of the 14-15 week, each student will present a slide show as a team in front of the class.
Homework / Review Questions	About 12 homework problems will be assigned out of the textbook. The Chapter review questions will be assigned at the completion of a topic and will be due in class on the day stated in the course schedule. <b>Homework will be uploaded to Canvas as a PDF.</b>
Late Homework/ Assignment Policy	<p>Late Submissions. It is a basic principle of professionalism that <b>“Professionals are not late.”</b></p> <p>A “COORDINATED LATE” submission occurs when you will miss the suspense for a graded homework assignment and you contact me in advance. Notification immediately before the submission will not suffice. Point cuts up to the amounts below <b>may</b> be assessed for a “COORDINATED LATE” submission:</p> <ol style="list-style-type: none"> <li>1. 0-24 hours late a deduction of 25% of the earned grade</li> <li>2. 24-48 hours late a deduction of 50% of the earned grade</li> <li>3. More than 48 hours late No credit. <b>Assignments must still be submitted.</b></li> </ol>
Final Day to Withdraw	The final day to withdraw from the course without penalty is <b>November 4th.</b>
Census Dates	The university requires that instructors report the attendance to the Registrar’s Office at various points in the semester. Therefore, on <b>September 2nd.</b> I will report the attendance for the class.

<p>UT Tyler Honor Code</p>	<p>Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.</p>
<p>Students' Rights and Responsibilities</p>	<p>To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <a href="http://www.uttyler.edu/wellness/rightsresponsibilities.php">http://www.uttyler.edu/wellness/rightsresponsibilities.php</a></p>
<p>Campus Carry</p>	<p>We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <a href="http://www.uttyler.edu/about/campus-carry/index.php">http://www.uttyler.edu/about/campus-carry/index.php</a></p>
<p>UT Tyler: A Tobacco-Free University</p>	<p>All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.</p> <p>Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.</p> <p>There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit <a href="http://www.uttyler.edu/tobacco-free">www.uttyler.edu/tobacco-free</a>.</p>
<p>Grade Replacement / Forgiveness and Census Date Policies</p>	<p>Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <a href="http://www.uttyler.edu/registrar">http://www.uttyler.edu/registrar</a>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.</p> <p>Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.</p> <p>The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:</p>

	<ul style="list-style-type: none"> <li>• Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.</li> <li>• Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)</li> <li>• Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)</li> <li>• Being reinstated or re-enrolled in classes after being dropped for non-payment</li> <li>• Completing the process for tuition exemptions or waivers through Financial Aid State-Mandated Course Drop Policy</li> </ul>
State-Mandated Course Drop Policy	<p>Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.</p>
Disability / Accessibility Services	<p>In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <a href="https://hood.accessiblelearning.com/UTTyler">https://hood.accessiblelearning.com/UTTyler</a> and fill out the <u>New Student</u> application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <a href="http://www.uttyler.edu/disabilityservices">http://www.uttyler.edu/disabilityservices</a>, the SAR office located in the University Center, # 3150 or call 903.566.7079.</p>
Student Absence due to Religious Observance	<p>Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.</p>
Student Absence for University-	<p>If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time, the instructor will set a</p>

Sponsored Events and Activities	date and time when make-up assignments will be completed.
Social Security and FERPA Statement	It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.
Emergency Exits and Evacuation	Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.
Student Standards of Academic Conduct	<p>Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.</p> <p>i. <b>“Cheating”</b> includes, but is not limited to:</p> <ul style="list-style-type: none"> <li>• copying from another student’s test paper;</li> <li>• using, during a test, materials not authorized by the person giving the test;</li> <li>• failure to comply with instructions given by the person administering the test;</li> <li>• possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;</li> <li>• using, buying, stealing, transporting, or soliciting in whole or part the contents of a non-administered test, test key, homework solution, or computer program;</li> <li>• collaborating with or seeking aid from another student during a test or other assignment without authority;</li> <li>• discussing the contents of an examination with another student who will take the examination;</li> <li>• divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;</li> </ul>

	<ul style="list-style-type: none"> <li>• substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;</li> <li>• paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;</li> <li>• falsifying research data, laboratory reports, and/or other academic work offered for credit;</li> <li>• taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and</li> <li>• misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.</li> </ul> <p>ii. <b>“Plagiarism”</b> includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.</p> <p>iii. <b>“Collusion”</b> includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.</p> <p>iv. All written work that is submitted will be subject to review by plagiarism software.</p>
<p>UT Tyler Resources for Students</p>	<ul style="list-style-type: none"> <li>• <a href="http://writingcenter@uttyler.edu">UT Tyler Writing Center</a> (903.565.5995), <a href="mailto:writingcenter@uttyler.edu">writingcenter@uttyler.edu</a></li> <li>• <a href="http://tutoring@uttyler.edu">UT Tyler Tutoring Center</a> (903.565.5964), <a href="mailto:tutoring@uttyler.edu">tutoring@uttyler.edu</a></li> <li>• The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.</li> <li>• <a href="http://counseling@uttyler.edu">UT Tyler Counseling Center</a> (903.566.7254)</li> </ul>
<p>Information for Classrooms and Laboratories</p>	<p>Students are <b><i>strongly encouraged</i></b> to wear face masks covering their nose and mouth in public settings (including classrooms and laboratories). The UT Tyler community of Patriots views adoption of these practices consistent with its <a href="#">Honor Code</a> and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.</p> <p>Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature should stay at home and</p>



	notify their faculty. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email <a href="mailto:saroffice@uttyler.edu">saroffice@uttyler.edu</a> .
Recording of Class Sessions	Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

**Tentative Schedule**

**CMGT 3311 – INITIAL COURSE SCHEDULE (subject to change as needed throughout the semester)**

<b>CMGT 3311.001</b>						Dr. Gilbert Abel		Office:	
<b>Construction Estimating</b>						<a href="mailto:gabel@uttyler.edu">gabel@uttyler.edu</a>		RBS 1036	
Mon/Wed/Fri 9:05 – 10:00 AM; Lecture:									
<b>MODULE 1</b>									
Lesson	Module	Date		Topic	Reading	Assignments	Due Date	Due Time	Check when complete
Week 1	1	08/22/22	Inclass	Introduction to Estimating & Takeoff tools	CH 1	Class Assignment: Food Estimate			
						Syllabus			
						CSI Divisions			
						Introduction to scales			
						Converting Measurements			
						Introduction to Planswift			
Week 1	1	08/24/22		Introduction to Estimating & Takeoff tools	CH 1	Chpt 1 - PPT			
						Drawings: Title Sheet			
						Specifications			
			Inclass			Quantity Takeoff			
						Quiz 1: Chpt 1 / Scaling (10 pts)	8/28/22	11:59 PM	#1
						Introduce Estimate Standard			
						HW Assignments : Wendy's scope assignment			
Week 1	1	08/26/22		Building Takeoff Introductio	CH 1	Chpt 1 - PPT			
						Drawings: TBD			

				n: Proper proce					
						Chapter Review Questions Due	8/26/22	11:59 PM	CH1 - Rev
			In class						

**MODULE 2**

Less on	Modu le	Date		Topic	Readin g	Assignment s	Due Date	Due Time	Che ck whe n com plet e
Week 2	2	08/28/22	Inclass	Division 3: Concrete Review prior Chapter review questions	CH 2	Review: HW & Questions			
						Overview: Concrete			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz			
						HW Example 2: Take home			
Week 2	2	08/31/22	In Class	Footings, slab on grade, continious footing, piers, gradebeam s,	CH 2	Review: HW & Questions			
						PPT:			
						Drawings: Plot Plan/ Site Work			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz	9/4/22	11:59 AM	#2
						Today's Technology:			
Week 2	2	09/02/22	In Class	Footings, slab on	CH 2	Review: HW & Questions			

				grade, continious footing, piers, gradebeam s,		PPT:			
						Drawings: Plot Plan/ Site Work			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Today's Technology:			
						Chapter Review Questions Due	9/2/22	11:59 PM	CH2 - Rev

**MODULE 3**

Less on	Modu le	Date		Topic	Readin g	Assignment s	Due Date	Due Time	Ch e c k w h e n c o m p l e t e
Week 3	3	09/07/22	In Class	Division 3: Reinforc ing Review prior Chapter review questions	CH 3	Review: HW & Questions			
						Overview: Reinforcing			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz			
						HW Example 2: Take home			
Week 3	3	09/09/22	In class	Footings, AB plates,reif orcing, rebar, post tension,	CH 3	Review: HW & Questions			
						PPT:			
						Drawings: Foundation Structural Drawings			
						In Class Example 3: PDF & PlanSwift			

						Assignment: Quantity Takeoff/ Quiz	9/11/22	11:59 AM	#3
						Todays Technology:			
						Chapter Review Questions Due	9/9/22	11:59 PM	CH3 - Rev
<b>MODULE 4</b>									
Less on	Modu le	Date		Topic	Readin g	Assignment s	Due Date	Due Time	Ch e c k w h e n c o m p l e t e
Week 4	4	09/12/22	In Class	Division 4: Masonry Review prior Chapter review questions	CH4	Review: HW & Questions			
						Overview:			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz			
						HW Example 2: Take home			
Week 4	4	09/14/22	In Class	Masonry, CMU, Brick, Ties, Mortar	CH4	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz	9/18/22	11:59 PM	#4
						Todays Technology:			
Week 4	4	09/16/22	In Class	Masonry, CMU, Brick,	CH4	Review: HW & Questions			
						PPT:			

				Ties, Mortar		Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Todays Technology:			
						Chapter Review Questions Due	9/16/22	11:59 PM	CH4 - Rev

**MODULE 5**

Less on	Modu le	Date		Topic	Readin g	Assignment s	Due Date	Due Time	Ch e c k w h e n c o m p l e t e
Week 5	5	09/19/22	In Class	Division 5: Steel Review prior Chapter review questions	CH5	Review: HW & Questions			
						Overview:			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz			
						HW Example 2: Take home			
Week 5	5	09/21/22	In Class	Joist, Beams, Columns, Bolting, Cranes	CH5	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz	9/25/22	11:59 PM	#5

						Today's Technology:			
Week 5	5	09/23/22	In Class	Joist, Beams, Columns, Bolting, Cranes	CH5	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Today's Technology:			
						Chapter Review Questions Due	9/23/22	11:59 PM	CH5 - Rev

<b>Week 6</b>		<b>09/26/22</b>	<b>In Class</b>	<b>EXAM 1</b>	<b>Wk 1-5</b>	<b>EXAM 1</b>	<b>9/26/2022</b>		
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**MODULE 6**

<b>Lesson</b>	<b>Module</b>	<b>Date</b>		<b>Topic</b>	<b>Reading</b>	<b>Assignments</b>	<b>Due Date</b>	<b>Due Time</b>	<b>Check when complete</b>
Week 6	6	09/26/22	In Class	Division 6: Framing Review prior Chapter review questions	CH 6	Review: HW & Questions			
						Overview:			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz			
						HW Example 2: Take home			
Week 6	6	09/28/22	In Class	Metal Stud framing,	Ch 6	Review: HW & Questions			

				wood, rafters, joist,		PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz	10/2/22	11:59 PM	#6
						Today's Technology:			
Week 6	6	09/30/22	In Class	Metal Stud framing, wood, rafters, joist,	Ch 6	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Today's Technology:			
						Chapter Review Questions Due	9/30/22	11:59 PM	CH6 - Rev
<b>MODULE 7</b>									
<b>Less on</b>	<b>Modu le</b>	<b>Date</b>		<b>Topic</b>	<b>Readin g</b>	<b>Assignmen ts</b>	<b>Due Date</b>	<b>Due Time</b>	<b>Che ck whe n com plet e</b>
Week 7	7	10/03/22	In Class	Division 7: Framing / Insulation, thermal protection Review prior Chapter review questions	CH 7	Review: HW & Questions			
						Overview:			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity			



						Takeoff / Quiz				
						HW Example 2: Take home				
Week 7	7	10/05/22	In Class	Division 7: insulation, R-values, rigid insulation, Stucco, EFIS,	Ch 7	Review: HW & Questions				
						PPT:				
						Drawings: Details				
						In Class Example 3: PDF & PlanSwift				
						Assignment: Quantity Takeoff/ Quiz	10/9/22	11:59 PM	#7	
						Today's Technology:				
Week 7	7	10/07/22	In Class	Division 7: insulation, R-values, rigid insulation, Stucco, EFIS,	Ch 7	Review: HW & Questions				
						PPT:				
						Drawings: Details				
						In Class Example 3: PDF & PlanSwift				
						Assignment: Quantity Takeoff/ Quiz				
						Today's Technology:				
						Chapter Review Questions Due	10/7/22	11:59 PM	CH7 - Rev	
<b>MODULE 8</b>										
<b>Lesson</b>	<b>Module</b>	<b>Date</b>		<b>Topic</b>	<b>Reading</b>	<b>Assignments</b>	<b>Due Date</b>	<b>Due Time</b>	<b>Check when complete</b>	
Week 8	8	10/10/22	In Class	Division 8: Doors, windows, storefront	CH 8	Review: HW & Questions				
						Overview:				
						PPT:				

				Review prior Chapter review questions		In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz	10/16/22	11:59 PM	#8
						HW Example 2: Take home			
Week 8	8	10/12/22	In Class	Division 8:doors, windows, storefront, glazing, hardware, manufactures	Ch8	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Today's Technology:			
Week 8	8	10/14/22	In Class	Framing Revisited	CH 8	Review: HW & Questions			
						Overview: Framing : Questions			
						Chapter Review Questions Due	10/14/22	11:59 PM	CH8 - Rev
<b>Week 9</b>		<b>10/17/22</b>	<b>In Class</b>	<b>EXAM 2</b>	<b>Wk 6,7,8</b>	<b>EXAM 2</b>	<b>10/17/2022</b>		
<b>MODULE 9</b>									
<b>Lesson</b>	<b>Module</b>	<b>Date</b>		<b>Topic</b>	<b>Reading</b>	<b>Assignments</b>	<b>Due Date</b>	<b>Due Time</b>	<b>Check when com</b>

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Week 9	9	10/17/22	In Class	Division 9: Finishes Review prior Chapter review questions	CH 9	Review: HW & Questions			
						Overview:			
						PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz	10/23/22	11:59 PM	#9
						HW Example 2: Take home			
Week 9	9	10/19/22	In Class	Drywall, Flooring, Painting, Acoustical Ceilings	Ch 9	Review: HW & Questions			
						PPT:			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			
						Todays Technology:			
Week 10	9	10/21/22	In Class	Div 10: Toilet Accessorie s/ Equipment, Appliances	Ch9	Review: Toilet Accessories			
						PPT: Website, Manufacture s			
						Drawings: Details			
						In Class Example 3: PDF & PlanSwift			
						Assignment: Quantity Takeoff/ Quiz			

						Today's Technology:			
						Chapter Review Questions Due	10/21/22	11:59 PM	CH9 - Rev
<b>MODULE 10</b>									
Lesson	Module	Date		Topic	Reading	Assignments	Due Date	Due Time	Check when complete
Week 10	10	10/24/22	In Class	Mechanical - Ducting, piping, exhaust fans, tonnage Review prior Chapter review	CH 10	Review: HW & Questions			
		10/26/22				Overview:			
		10/28/22				PPT:			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz	10/30/22	11:59 PM	#10
						HW Example 2: Take home			
			Chapter Review Questions Due			10/28/22	11:59 PM	CH10 - Rev	
<b>MODULE 11</b>									
Lesson	Module	Date		Topic	Reading	Assignments	Due Date	Due Time	Check when complete
Wk 11	11	10/31/22	In Class	Plumbing Review prior Chapter review	Ch 11	Review: HW & Questions			
		11/02/22	In Class			Overview:			
						PPT:			
		11/04/22	In Class			In Class Example 1: PDF & PlanSwift			
		Assignment: Quantity	11/6/22	11:59 PM	#11				

						Takeoff / Quiz			
						QUIZ - PLUMBING FITTING	11/7/21		
						Chapter Review Questions Due	11/4/22	11:59 PM	CH1 1 - Rev

<b>Week 12</b>		<b>11/07/22</b>	<b>In class</b>	<b>EXAM 3</b>	<b>Wk 9,10,11</b>	<b>EXAM 3</b>	<b>11/7/2022</b>		
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**MODULE 12**

<b>Week 12</b>	13	11/07/22	In Class	Electrical, low voltage Review prior Chapter review	Ch 12 - Chapter Exam Questions	Review: HW & Questions			
						Overview:			
		11/09/22				PPT:			
						In Class Example 1: PDF & PlanSwift			
		11/11/22				Assignment: Quantity Takeoff / Quiz	11/13/22	11:59 PM	#12
						HW Example 2: Take home			
						Chapter Review Questions Due	11/11/22	11:59 PM	CH1 2 - Rev

**MODULE 12**

<b>Lesson</b>	<b>Module</b>	<b>Date</b>	<b>In Class</b>	<b>Topic</b>	<b>Reading</b>	<b>Assignments</b>	<b>Due Date</b>	<b>Due Time</b>	<b>Check when complete</b>
Week 13	13	11/14/22	In Class	Division 31: Civils - Soils Stabilization	Ch 1 / 5	Review: HW & Questions			
						Overview: Soils Stabilization, Grading			

						PPT: Civils			
						Assignment: Quantity Takeoff / Quiz	11/20/22	11:59 AM	#13
Week 13	13	11/16/22	In Class	Div 31 - Civils - Paving	Ch 1 / 5	Overview: Paving			
Week 13	13	11/18/22	In Class	Div 31 - Civils - Concrete, sidewalks, curb and gutter, etc.	Ch 1 / 5	Overview: Site work			

**Week 14** **THANKSGIVING BREAK**

**MODULE 13**

Lesson	Module	Date		Topic	Reading	Assignments	Due Date	Due Time	Check when complete
Week 15	13	11/28/22	In class	Division 32,33: Civil, Site Utilities, Landscaping	Ch 2	Review: HW & Questions			
						Overview: Water Piping			
						PPT: Civil			
						In Class Example 1: PDF & PlanSwift			
						Assignment: Quantity Takeoff / Quiz	12/5/22	11:59 AM	#14

						HW Example 2: Take home			
Week 15	13	11/30/22	In class	Division 32,33: Civil, Site Utilities, Landscapin g	Ch 2	Review: HW & Questions			
						Overview: Sewer Piping			
						PPT: Civil			
		12/02/22	In class			HW Example 2: Take home			
						Assignment: Quantity Takeoff / Quiz			
<b>16</b>		<b>12/5 - 12/8</b>	<b>Online</b>	<b>FINAL EXAM</b>	Chap: all	12/5 - 12/8 - online			
<b>16</b>		<b>12/09/2 2</b>		<b>PROJECT PRESENTIO N DAY</b>		PRESENTATI ONS DAY- PROJECTS	12/10/2021	8:00 AM	10:0 0: AM
		<b>12/10/2 2</b>		<b>END OF TERM</b>					
		<b>12/12/2 2</b>		<b>GRADES DUE</b>					