

MEMORANDUM FOR STUDENTS ENROLLED IN CMGT 4195

SUBJECT: CMGT 4195 CONSTRUCTION MANAGEMENT CAPSTONE I

**Course Specific Policies**

1. CMGT 4195 CONSTRUCTION MANAGEMENT CAPSTONE I

Class Meets: Tuesday 11:00 AM – 1:45 PM Room: RBS 2019  
and Lab: RBN 2023 & 2024 (as instructed)

Instructor: Dr. Althea Arnold  
Office: Ratliff Building South (RBS) 1035  
Office Phone: (903) 566-7002  
Email: aarnold@uttyler.edu

2. Welcome to CMGT 4195 Construction Management Capstone I

The purpose of this course is to prepare you for Capstone 2. Topics covered include Revit modeling, project planning, and selection of project for the year. Emphasis is placed on learning the techniques of Revit Modeling and preparation for the capstone presentation held in the spring.

**Prerequisite: Senior Standing and Chair Approval.**

**A. What does it take to be successful in the senior capstone courses?**

Senior Capstone I & II utilizes information from all previous courses to give students an understanding of the Construction Management profession. The students are instructed to form a construction company and pretend to bid on an actual job within the Texas area. Students are provided a full set of working drawings, project manual specifications, and subcontractor bids from a contractor.

Throughout the semester, the students meet with other professionals within the industry to help with their capstone project. From the beginning of the semester, the students are informed to pretend they will be one of the low bid submissions to the client. Later, the students are to present their bid submission in a “Post-Bid Interview” to win the job. Teams are to present before board committee members that are represented by guest contractors from the industry. If there is a residential team, they are required to develop/design a neighborhood and present their proposal to potential investors.

For Capstone 1, students will be expected to

- (1) explain the due diligence process of construction by doing a site analysis,
- (2) form a team by construction sector interest,
- (3) select a project,
- (4) work through the REVIT tutorials in your textbook, and
- (5) apply the knowledge learned from the tutorials to your capstone project that will be completed in Capstone 2.

There are 3 main requirements that must be completed before going into Capstone 2:

1. Complete all tutorial assignments and additional paper assignments by due dates.
2. Provide a Site Analysis of your selected project as a team.
3. Provide 30% drawings (floor plan) of your selected project.
4. Provide a market study analysis.



## **B. CLASS LAB- Autodesk Revit**

This semester the class will utilize the classroom and the computer lab to do the Revit tutorials and work on projects. I will notify students of the computer lab used for the week. Currently, we are reserving the lab on a weekly basis. The students will either use RBS 2023/2024.

3. If you will miss a scheduled class, you are still responsible for the material.
4. You are encouraged to seek additional instruction during my office hours or by appointment. Office Hours are posted outside my door.
5. Class Room Procedures:
  - a. **Attendance-** I will take attendance in class – please ensure information is circulated and turned back in to the instructor by the end of class. You are expected to attend all class meetings. Lectures, in class demonstrations, and class discussions will contain vital information needed to do well in the course. It is your responsibility to sign the attendance roster each class period. Capstone is setup similar to a workplace environment. You will be provided a task and your goal is to complete the assigned task. Attending class is a reflection upon yourself, but your team members will need each other to make it through Capstone I and II. Don't leave them disappointed in your efforts.
  - b. **Extra Help:** Class preparation is your individual responsibility. If I am not in the computer lab with you, I will be in my office. I will check on students throughout the class period to see how you are progressing or if you need help. If you need EXTRA HELP – PLEASE DO NOT WAIT TILL THE LAST MINUTE TO GET HELP!!
  - c. **Course Materials:**
    1. **Textbook: Design Integration Using Autodesk Revit 2019 or 2020, Architecture, Structure and MEP, Daniel John Stine, SDC Publications, ISBN: 978-1-63057-179-5. (With access code).**
    2. I will post all course materials on Canvas. Canvas enrollment should be automatic with course registration but ensure that you can access the class Canvas page.
    3. All assignments will be posted on Canvas and provided in class. It is your responsibility to check the site for changes and addendums.
  - d. **Turn in Homework:** Homework will be turned in at the beginning of class on due dates. All work should be done professionally. I will only accept typed work in Microsoft Word or Excel. Make sure you turn in your work with a cover sheet or title block as specified in the assignment. The majority of assignments will be turned in on Canvas, which stamps it with a time and date.
6. **Canvas Information**

I may also on occasion email you homework tips or points of clarification that are made aware to me outside of class. All email correspondence will take place through the Canvas system, and therefore using your Patriot email accounts; so, check your Patriot email account often. Professionals check their work emails daily (or more often).
7. **Exams and Grading:**



- a. Grade Breakout and Cutoffs:

**Course Points**

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|                                       |                  |
|---------------------------------------|------------------|
| Homework Assignments/Tutorials: Revit | 300 (30%)        |
| Projects (1 @ 200), 1 @ 200)          | 600 (40%)        |
| Professional Practice Grade           | <u>100 (10%)</u> |
| Total Points                          | 1000 (100%)      |

University Guidelines for Grading will be used to determine your letter grade.

- b. **Cell Phones: Please do not TEXT MESSAGE while the instructor or guest speakers are speaking.** If you text message extensively, the instructor may ask you to leave the classroom. Please remember to turn off sound to phones prior to class. I understand that emergencies will happen. If you have an emergency please feel free to take care of the situation, but leave the classroom to do so and notify me of any issues. **Excessive use of cell phone while speakers are lecturing could really affect your professional grade in the class!**
- c. Collection of Student Work: Throughout the semester I will collect student work (best, average, and worst) for the ABET course and outcomes notebooks. This will require me to make a copy of your work. I will not draw attention as to what level of work you accomplished.
8. Homework:

**HOMEWORK FORMAT:** The production of a neat, organized, high-quality homework assignment cannot be overestimated nor can its importance to your course grade be overstated. A homework assignment should be something you are proud of and not something hastily “slapped together”. Toward this end, considerable emphasis will be placed on not only getting the correct answer but also on how the solution is presented.

**All homework is mandatory and becomes part of your grade.** Failure to submit any required homework **will result in an incomplete.** As a construction manager your goal is to make a clear, logical, and professional presentation of your work, which is both accurate and correct. As such both your presentation and the accuracy of your work are important, and both will be graded. It is critical that you show all of your work and leave “footprints” so that it can be easily followed.

**Turn in all homework on due date at the beginning of class in the class folder. DO NOT TURN IN ASSIGNMENTS THAT ARE NOT TYPED.** Please use Microsoft Word or Excel. If you do not turn in typed assignments with a cover sheet, your assignment will be deducted by 10 points automatically. I will give you an opportunity to turn in the cover sheet to receive full credit, but don’t make it a habit. There may be a few assignments that are done by hand. If it is done by hand please turn in neat work.

- a. Papers/Tutorial Prints:

- 1) **Use professional looking paper only or full-page printouts from Revit. Do a snapshot of work to show that you are progressing through tutorials and copy/paste into PowerPoint. Submit your work online to turn in by due dates assigned unless otherwise directed.**
- 2) **Late Submissions.** It is a basic principle of professionalism that **“Professionals are not late.”** A “COORDINATED LATE” submission occurs when you will miss the deadline for a graded homework assignment and you contact me in advance. Notification



immediately before the submission will not suffice. Deductions to your assignment grade for late submissions will be given as follows:

1. 0-24 hours late                      a deduction of 25% of the earned grade
2. 24-48 hours late                    a deduction of 50% of the earned grade
3. More than 48 hours late   No credit. **Assignments must still be submitted.**

Obviously, there are circumstances that can occur that make a timely submission impossible and I will work with you when and if they occur. ***I will not play the game of having a stack of incomplete homework assignments turned in on the last day of class.*** *Late assignments should still be submitted within a week unless you coordinate otherwise with me. **Habitually late homework WILL have a significant negative impact on your professional practice grade!***

- b. Assigned readings: Doing the assigned reading prior to class will help you to understand the material presented during the instruction and will fill in gaps for things we do not cover (***I will not cover everything***). It will also make you more familiar with terms and concepts to be covered. **Reading the assignment prior to attending class will enhance your ability to learn!**
9. **Professional Practice.** During this semester, a portion of your grade in this course (10%) will be derived from a level of professional practice expectations. These expectations include a professional demeanor and work ethic (attitude), consistent daily preparation (assignment reading, appropriate materials brought to class, homework completed on time, etc.), commitment to learning and fulfilling obligations (attendance, on time), and being engaged in class activities (participation) worth 100 points.
10. **Academic Dishonesty:** Representation of other's work as your own will not be tolerated. Cheating on homework and the false representation of work will be interpreted as academic dishonesty. Academic dishonesty will be subject to disciplinary actions as outlined by the UT Tyler Student Guide on Conduct and Discipline.

## 11. UNIVERSITY POLICIES AND ADDITIONAL INFORMATION THAT MUST APPEAR IN EACH COURSE SYLLABUS

### UT Tyler Honor Code

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.

### Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

### Campus Carry

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 <http://www.uttyler.edu/about/campus-carry/index.php>

### UT Tyler a Tobacco-Free University

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.

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.

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

[www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free).



### **Grade Replacement/Forgiveness and Census Date Policies**

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. (For Fall, the Census Date is Sept. 12.) Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. 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.

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.

The Census Date (Sept. 12th) is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

### **State-Mandated Course Drop Policy**

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.

### **Disability/Accessibility Services**

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 <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student 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 <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.

### **Student Absence due to Religious Observance**

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.

### **Student Absence for University-Sponsored Events and Activities**

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 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**

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.

- i. "Cheating" includes, but is not limited to:
  - copying from another student's test paper;
  - using, during a test, materials not authorized by the person giving the test;
  - failure to comply with instructions given by the person administering the test;
  - 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;
  - using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
  - collaborating with or seeking aid from another student during a test or other assignment without authority;
  - discussing the contents of an examination with another student who will take the examination;
  - 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;
  - substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
  - 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;
  - falsifying research data, laboratory reports, and/or other academic work offered for credit;
  - 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
  - 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.
- ii. "Plagiarism" 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.
- iii. "Collusion" 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.
- iv. All written work that is submitted will be subject to review by plagiarism software.

**UT Tyler Resources for Students**

- [UT Tyler Writing Center](http://writingcenter@uttyler.edu) (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)
- [UT Tyler Tutoring Center](mailto:tutoring@uttyler.edu) (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)
- 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.
- [UT Tyler Counseling Center](http://counseling@uttyler.edu) (903.566.7254)



**Attachment I. Course Schedule****CMGT 4195 Construction Management Capstone I**

|    |            | This is a tentative schedule and is subject to change                                      |                                   |
|----|------------|--|-----------------------------------|
| Wk | Class Date |  | Assigned                          |
| 1  | 27-Aug     | Class Overview/Syllabus/Presentation Seniors 2018  | HW 1 - Resume Part 1              |
|    |            | /Resume  | HW 1 - Resume Part 2              |
|    |            | <b>Module I: Revit Drawings</b>  |                                   |
| 2  | 3-Sep      | Capstone class Outline/Revit: Lesson 1   | HW 2 - Getting Started with Revit |
| 3  | 10-Sep     | Construction Roles/SPA 1/Revit: Lesson 2 and 3   | HW 3 - Lessons 2 & 3              |
|    |            |  | SPA 1 Choosing a Project          |
| 4  | 17-Sep     | Revit: Lesson 4 & 5  | HW 4 - Lessons 4 & 5              |
| 5  | 24-Sep     | Revit: Lesson 5 & 6  | HW 5 - Lessons 5 & 6              |
| 6  | 1-Oct      | Revit: Lesson 8  | HW 6 - Lessons 8                  |
|    |            | <b>Module II: Project Selection/Site Analysis and Due Diligence / 30% Project Drawings</b> |                                   |
| 7  | 8-Oct      | Project Selection/Site Analysis/Teams Formed   | SPA 2 Intro Project Presentation  |
| 8  | 15-Oct     | Marketing and Personal Plans   | SPA 3 Personal Plan               |
|    |            |  | SPA 3 Marketing Plan              |
| 9  | 22-Oct     | Work Day - Projects/Finalize Resumes   |                                   |
| 10 | 29-Oct     | Present Projects; Work Day - Projects  | SPA 4 Site Analysis Individual    |
|    |            |  | SPA 4 Site Analysis Team          |
| 11 | 5-Nov      | Resume Review Day- Guest Companies   | SPA 5a Model 30% drawings         |
| 12 | 12-Nov     | Work Day - Projects  | SPA 5b Project Poster             |
|    | 19-Nov     | Work Day - Projects  |                                   |
| 13 | 26-Nov     | Thanksgiving Holiday   |                                   |
| 14 | 3-Dec      | Final Presentation 30% Drawings  | SPA 5c Backups                    |
| 15 | 10-Dec     | No Final Exam  |                                   |



## Attachment 2

### About Your Instructor

#### **Althea Arnold, PE, PhD**

##### Contact Information

Office: RBS 1035

Office Hours: As posted outside my door or by appointment. You may also email me. I will respond to email within 24 hours, except on weekends.

Phone: 903-566-7002

Email: [aarnold@uttyler.edu](mailto:aarnold@uttyler.edu)

I am looking forward to teaching Capstone 1, once again. As a mentor, it is exciting to see students' progress toward their goal of graduation and full-time professional employment.

I have previously been on faculty at the University of North Texas and Texas A&M. I am a Registered Professional Civil Engineer and have over 30 years' experience in the field, working in design and construction management in all three areas: residential, commercial, and heavy civil construction. I have worked in Texas, California, and Maryland. I have also performed research for Texas Transportation Institute in crash testing of highway hardware.

I have a BS and MS in Civil Engineering specializing in structures and a PhD in Construction Management all from Texas A&M. My specialties are in Building Information Modeling (BIM), Green Building, and Robotics in Construction.

I enjoy teaching and like to challenge students to reach their full potential by involving them in the latest construction technologies. I expect students to be engaged in their own learning. I believe that the information, procedures, and techniques I provide students during the courses I instruct will help them in the future to obtain and sustain professional and rewarding employment meeting their lifetime goals.

To help you, I am available to answer questions about the courses I am teaching, questions on your schedule and academic progress, student construction organizations, internships and employment opportunities. Please feel free to drop by my office during office hours, schedule an appointment, or send me an email.

A. Arnold



**Attachment 3**  
**CMGT 4195 Course Objectives:**

1. Explain the role of computer models in the construction management field.
2. Develop students' ability to use Revit Models.
3. Prepare students for Capstone 2 by helping them select and model a project.