

**The University of Texas at Tyler
Department of Civil and Construction
Engineering and Management**

**CMGT 3104-060
Graphical Tools for Design**

Course Syllabus (Spring 2025)

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| Time & Venue | <p>Class Meeting: ONLINE (No Scheduled Classes)</p> <p>Office Hours: With appointments through email: shossain@uttyler.edu</p> <p>Recorded video lectures are posted in Canvas. There will be no exams in this course. Students need to watch video lectures and attend the assignments and quizzes those are posted in Canvas.</p> <p>Note: Students will be notified through announcements for any general discussions/ short lectures needed.</p> |
| Instructor | <p>Amjad Hossain, P.E. Houston Engineering Center (HEC Campus) Office: HEC-A 0221</p> <p>Email: shossain@uttyler.edu</p> <hr style="width: 10%; margin: 10px auto;"/> |
| Teaching Assistant | N/A |
| Course Website | <p>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, lesson, videos, and other material pertaining to the class. Please check there regularly.</p> |

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| <p>Course Objective and Descriptions</p> | <p>CMGT 3104-060 is an introduction to basic engineering basic Autodesk Revit BIM Modeling Software. Autodesk Revit is a building information modelling (BIM) software for architects, landscape architects, structural engineers, mechanical, electrical, and plumbing engineers, designers and contractors. BIM stands for Building Information Modeling and is a workflow process. It's based around models used for the planning, design, construction, and management of building and infrastructure projects. BIM software is used to model and optimize projects by planning, designing, building, and operating BIM models.</p> <p>This course is structured in 12 chapters of content that each are designed to span a week duration. In each of the chapters there are multiple short videos are posted in canvas those can be viewed and followed by 11 assignments and 10 quizzes. The quizzes comprise the basic modeling concepts in Revit in terms BIM modeling.</p> <p>This course will proceed from a basic of a simple house modelling technique that includes plan view, internal and external walls, doors, windows, ceiling, roofs, stairs, furniture etc. and end on the 3D rendering.</p> |
| <p>Course Outcomes</p> | <p>In this course, you will learn to:</p> <ol style="list-style-type: none"> 1. Basic understanding of the Autodesk Revit Software as a BIM software. 2. Basic parameters/concepts needed for Building modeling/ Interior design. 3. Demonstrate how to model different components of buildings for interior design that includes but not limited to plans view, elevation, sections, external and internal walls, ceiling, roof, stairs, furniture, finishes, 3D view etc. 4. Demonstrate proficiency in BIM modelling and 3D rendering of Residential buildings using Autodesk Revit. |
| <p>Prerequisite</p> | <p>1. ENGR 1204 – Engineering Graphics</p> |
| <p>Required Text</p> | <p>Course Book:</p> <ol style="list-style-type: none"> 1. Design Integration Using Autodesk Revit 2019, SDC Publications, Daniel John Stine; ISBN-13: 978-1-63057-581-6 |

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| Grading | <p>Exams and Grading: Course Points Minimum Grade Scale</p> <table border="0"> <tr> <td>Assignments:</td> <td style="text-align: right;">(50%)</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>Quizzes:</td> <td style="text-align: right;">(20%)</td> </tr> <tr> <td>Design Project (Individual)</td> <td style="text-align: right;">(20%)</td> </tr> <tr> <td>Prof. Practice</td> <td style="text-align: right;">(10%)</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Total</td> <td style="text-align: right;">(100%)</td> </tr> </table> <p>Grade Breakdown: A = 90 – 100 B = 80 – 89 C = 70 – 79 D = 60 – 69 F = 59 or below</p> <p>Note: There will be no makeup work or extra credit allowed/granted at the end or during the semester unless allowed/granted to everyone by the instructor. All assignments must be turned in at the appropriate time to receive credit.</p> <p>Letter grades will be assigned based on the final course grade:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A 90 and above <input type="checkbox"/> B 80 to 89.99 <input type="checkbox"/> C 70 to 79.99 <input type="checkbox"/> D 60 to 69.99 <input type="checkbox"/> F below 60 <p>No letter grade will be released until it is official.</p> <p>In consistency with the College of Engineering’s policy, a student who does not score 50% or more of the total points allocated to the Final Examination will automatically receive an F grade.</p> | Assignments: | (50%) | | | Quizzes: | (20%) | Design Project (Individual) | (20%) | Prof. Practice | (10%) | <hr/> | | Total | (100%) |
| Assignments: | (50%) | | | | | | | | | | | | | | |
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| Quizzes: | (20%) | | | | | | | | | | | | | | |
| Design Project (Individual) | (20%) | | | | | | | | | | | | | | |
| Prof. Practice | (10%) | | | | | | | | | | | | | | |
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| Total | (100%) | | | | | | | | | | | | | | |
| Professional Practice | <p>You must attend three professional practice meetings to receive full credit for the professional practice portion of your grade in this course. You can attend ASCE, ITE, CMSA, IEEE, ASME, SAE, etc. student chapter meetings or when these student chapters host guest speakers. When you attend a meeting, you are expected to complete the template Word file and take a picture of yourself at the meeting as proof of your attendance. The template can be found on Canvas.</p> | | | | | | | | | | | | | | |

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| Exams | There are no EXAMS scheduled for this course. |
| General Exam Rules & Cheat Sheet | There are no EXAMS scheduled for this course |
| Calculators | Basic Calculators are required for this course. |
| Field Trip | There are no field trips scheduled for this course. |
| Design Project | A project will be given. All students are to work on them individually using the Revit software. All the students need to prepare a report. The report format will be posted in Canvas. |
| Presentation | At the end of the semester the students need to prepare a power point presentation files from the individual design project and need to submit along with the design project report. Individual presentation not needed. |
| Assignments/ Quizzes | Assignments and Quizzes will be posted in Canvas. |
| Late Homework/ Assignment Policy | <p>Late Submissions. It is a basic principle of professionalism that “Professionals are not late.”</p> <ol style="list-style-type: none"> 1. 0-24 hours late a deduction of 10% of the earned grade 2. 24-48 hours late a deduction of 20% of the earned grade 3. 48 hours – 1 week (7 days) late a deduction of 50% of the earned grade 3. More than 1 week late No credit. Assignments must still be submitted. |
| Final Day to Withdraw | |
| Census Dates | |

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| 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 | <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 www.uttyler.edu/tobacco-free.</p> |
| Grade Replacement / Forgiveness and Census Date Policies | <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 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.</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"> □ Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit. |

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| | <ul style="list-style-type: none"> <input type="checkbox"/> Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date) <input type="checkbox"/> Schedule adjustments (section changes, adding a new class, dropping without a “W” grade) <input type="checkbox"/> Being reinstated or re-enrolled in classes after being dropped for non-payment <input type="checkbox"/> Completing the process for tuition exemptions or waivers through Financial Aid State-Mandated Course Drop Policy |
| 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 https://hood.accessiblelearning.com/UTTyler 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 http://www.uttyler.edu/disabilityservices, 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-Sponsored Events and Activities | <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 date and time when make-up assignments will be completed.</p> |

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| <p>Social Security and FERPA Statement</p> | <p>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.</p> |
| <p>Emergency Exits and Evacuation</p> | <p>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.</p> |
| <p>Student Standards of Academic Conduct</p> | <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. “Cheating” includes, but is not limited to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> copying from another student’s test paper; <input type="checkbox"/> using, during a test, materials not authorized by the person giving the test; <input type="checkbox"/> failure to comply with instructions given by the person administering the test; <input type="checkbox"/> 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; <input type="checkbox"/> using, buying, stealing, transporting, or soliciting in whole or part the contents of a non-administered test, test key, homework solution, or computer program; <input type="checkbox"/> collaborating with or seeking aid from another student during a test or other assignment without authority; <input type="checkbox"/> discussing the contents of an examination with another student who will take the examination; <input type="checkbox"/> 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; <input type="checkbox"/> substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment; |

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| | <ul style="list-style-type: none"> □ 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; <p>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.</p> <p>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.</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"> □ UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu Tutoring Center: tutoring@uttyler.edu □ UT Tyler |
| <p>Information for Classrooms and Laboratories</p> | <p>Students are <i>strongly encouraged</i> 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 Honor Code and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.</p> |

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| | contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu . |
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