Instructor: Marla Smith marlasmith@utexas.edu
Office Hours: TU, TH 11:30-12:30 GOL 2.206
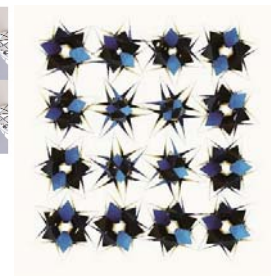
Hannah Griffiths S2017   Ann Staniford F2018   Allie Alford F2018   Kenneth Sneed S2018

https://roundme.com/tour/325414/view/1071959/   https://roundme.com/tour/333810/view/1108520/

Prerequisites:

Restricted to Architecture and Engineering students. Open to other majors with instructor's consent.

Description: In this class you will explore the creation, iteration, representation and visualization of Building Information Models with the option of utilizing various software platforms and representation methods including: Revit, Dynamo, Enscape3D, RoundMe, Video Editing and digital presentation tools. You will be representing your project through digital presentations including rendering, panoramas, video and virtual reality walk through. The class will use various modeling and presentations programs with a focus on BIM Modeling in Revit and representation through Enscape3D.

Week 1: Introduction to BIM Modeling techniques using Revit. We will be covering site creation, system families, and best modeling practices. This model will be the base for further explorations. We will be using Enscape3D to evaluate the project in real time as well as produce renderings and panoramas while utilizing various presentation modes.

Week 2: Parametric form and component creation. Creation of parametric forms and surfaces used to produce divided curves and surfaces. Creation of adaptive components and iteration over divided curves and surfaces. We will be covering Panoramas in both Enscape3D and Revit, video creation in Enscape3D and exploring digital and immersive presentation options.

Week 3: Continue to develop model, form and components. Peer review of projects using the HTC Vive to make presentation and design decisions. Introduction to Dynamo.

Week 4: Final iteration/development of models, graphs, and presentation techniques. Digital presentation strategy should be finalized during this week. Video Creation and editing.

Week 5: Production and evaluation of final presentations.

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Hardware: You should have a laptop capable of running at the minimum Revit 2019 and if possible Enscape3D.
You should acquire a Google Cardboard or similar for Panorama viewing.

Software: Download and install the lab versions of Revit and Enscape3D on to your own computer. Sign up for a RoundMe account. These programs are available from Autodesk and Enscape3D to students at no charge. We may use Rhino and or Grasshopper on a limited basis and they are not required.

Evaluation:

Attendance: Two unexcused absences will result in the lowering of your grade by one letter.
Three unexcused absences will result in a grade no higher than a C and my recommendation that you drop the course. Five unexcused absences = F.

Use mobile phones for class related assignments. If you need to use your phone for non-class related reasons, inform the teacher beforehand and leave the room.
Work on class related assignments during class. Complete other non-class related items outside of class.

Progress: Everyone is starting out at differing levels of proficiency therefore your grade will be based on relative progress.

Assignments: There will be two projects. You should complete the projects by the beginning of class on the due date.

Grades:

X   Excused Incomplete - Can be given only for legitimate reasons of illness or family emergency. Simply not completing work on time is not an adequate cause for assigning this evaluation. It may only be used after consultation with the Associate Deans' offices and with an agreement as to a new completion date. Work must be completed before the second week of the next semester in which you are enrolling, according to the School of Architecture policy.

F   Fail - Project is unresolved. Minimum objectives are not met. Performance is not acceptable. Note that this grade will be assigned when you have excessive unexcused absences.

C-, D   Poor - Project is incomplete. Basic grasp of skill is lacking, visual clarity or logic of presentation are not level-appropriate. Student does not demonstrate the required competence and knowledge base.

C+/C   Average - Project meets the minimum requirements. Suggestions made in class and not pursued with dedication and rigor. Project is incomplete in one or more areas.

B-/B/B+ Above Average - Project is thorough, well presented, diligently pursued, and successfully completed. Student pursues ideas and suggestions presented in class and puts in effort to resolve required projects. Project is complete on all levels and demonstrates potential for excellence.

A/A-   Excellent - Project surpasses expectations in terms of inventiveness, appropriateness, visual language, conceptual rigor, craft, and personal development. Student pursues concepts and techniques above and beyond what is discussed in class. Project is complete on all levels.

Resources:

Linked In Learning https://www.linkedin.com/learning/me?u=36306084
Video Tutorials included in assignments
Autodesk Design Academy,   https://academy.autodesk.com/software/revit

Accommodations:

At the beginning of the semester, students with disabilities who need special accommodations should notify the instructor by presenting a letter prepared by the Services for Students with Disabilities Office. To ensure that the most appropriate accommodations can be provided, students should contact the SSD Office at 471-6259 or 471-4641 TTY.

Policy on Scholastic Dishonesty:

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced.
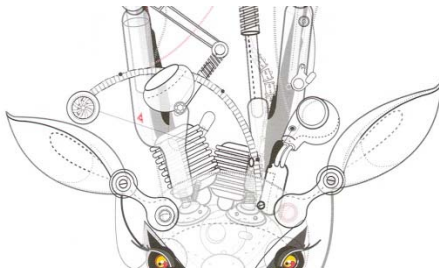
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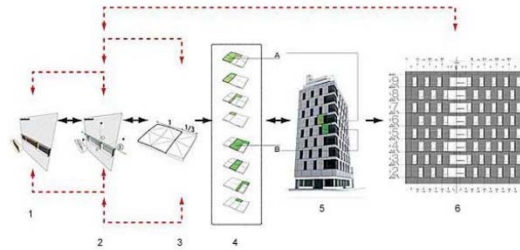
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