

Fall 9-1-2018

THTR 355.01: Computer Aided Drafting and Application

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Recommended Citation

Hanson, Alan M., "THTR 355.01: Computer Aided Drafting and Application" (2018). *Syllabi*. 8963.
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COURSE SYLLABUS

THTR 355-01-FALL 2018
COMPUTER AIDED DRAFTING FOR THEATRE-3CR

CLASS SESSIONS: MONDAY, WEDNESDAY - 12:30p to 1:50p
MCGILL 213

PROFESSOR:

Alan Hanson
Office- PAR/TV, Rm. 193,
Phone-243-2879
Alan.hanson@umontana.edu

OFFICE HOURS:

12:30p to 2:00p on T and TR

These office hours are scheduled weekly except when work on University productions or other School commitments prohibits. Please feel free to make appointments or stop by at other times.

GOALS AND OBJECTIVES:

The purpose of this course is to expand upon the knowledge students gained in THTR 255 and develop an understanding of how to use effectively Computer Aided Drafting and Design tools used in the creating of theatrical scenic, lighting and sound designs. Students will be asked to create many different drawings using the skills they learn on the computer.

The work for this class is designed to sequentially develop the student's understanding and skills. Therefore it is of extreme importance that all students complete the assignments according to the class schedule.

Students should:

- Build upon and improve the skills gained from an undergraduate education
- Refine and improve ones individual use of Computer Aided Drafting and Design processes

GRADING:

The grading for this course is rooted in the objectives stated above. The measurement or assessment of the students' success in meeting these objectives is determined at the end of a semester in their ability to draft quality projects. And in so doing they must demonstrate:

- Ability to meet all deadlines and requirements for the course
- Preparation for class as evidenced by knowledge gained from previous assignments and assigned readings; organization of work; and timely execution of drafting projects

- Increased skill in computer drafting: speed, accuracy, efficiency, and understanding of computer software
- Ability to approach work with increased independence, efficiency, and creative thinking.
- File cleanliness and organization
- Complexity of work attempted by the students in relationship to their skill level.

Note: The highest level of success is based on the student's ability to demonstrate through process and product a significant level of understanding of all theories and an ability to utilize them effectively, appropriately, and aesthetically in their creation of computer drafting.

Final grades for this course will be based on the following

9/10	#1: Simple Room-2D	50 points
9/24	#2: Simple Room-3D	50
10/1	#3: Spotlight Staging Design	50
10/8	#4: Template & Title Block	50
10/22	#5: Theater Scenic Floor Plans	100
10/29	#6: Theater Scenic Elevations	100
11/7	#7: Masquer Plot-2D	100
11/14	#8: Masquer Plot-3D	100
11/28	#9: Montana Plot-2D	100
12/12 10:10am	#10: Montana Plot-3D	200
	Attendance and Participation	100
	Total -----	1000 points

Since the completion of many of these projects is dependent upon the completion of the preceding projects, projects turned in to the professors after the due date will not be accepted for grading.

Extra credit is possible and encouraged by the professors, but the student must receive the instructors' permission before starting a project that is to be used for extra credit.

REQUIRED MATERIALS:

- 32 GB (minimum) Flash Drive memory stick
- Architect's Scale Ruler (not an Engineer's ruler)
- Download VectorWorks with a free student account at - <https://student.myvectorworks.net/>

PROJECTS AND REQUIREMENTS:

- Project I – Simple Room 2D** - A handout will be given to provide details of this project. Each student will draft the project using separate layers, established drafting conventions, and any additional information to help clarify the finished project. 50 pts
- Project II – Simple Room 3D** – Using the previous project as a basis, each student will adapt the room to a three-dimensional environment. Each student will discover the tools, including hybrid objects, in order to finalize this project. 50 pts
- Project III – Spotlight Stage Design**– A handout will be provided with a venue that must be converted from a hand drawing into 3D. Then using the Spotlight tool set you will construct a concert stage with Truss, Soft Goods, Projection, Audio and Lighting elements. Channel hookup and Instrument schedule paperwork will be generated from the existing plot. 100 pts
- Project IV –Personalized Templates and Title Block** - You will create a personalized title blocks that fit 4 different page sizes for use on all future projects. Each page will also include data record information that pertains to a previous project. These will serve as the basis for your personalized template files for use on future projects. 100 pts
- Project V – Theatre Scenic Floor Plans** - A handout will be given to provide details of this project. You will draw the scenery elements into the file and then generate scenic shift layouts for every scene. 100 pts
- Project VI – Theater Scenic Elevations and Sections** - Using the previous project as a basis, the drafted scenery will be modelled in 3D to then generate front elevations of all scenic units and create section views of the theater to determine masking needs. 100 pts
- Project VII – Masquer 2D** – A handout will be given to provide details of this project. Each student will draft the needed lighting equipment using separate layers, established drafting conventions, and any additional information to help clarify the finished project. Students will also be responsible for the creation of a Hook-up schedule and a Magic Sheet for the created finalized light plot. 100 pts
- Project VIII – Masquer 3D** - Using the previous project as a basis, each student will adapt the lighting plot to a three-dimensional environment. Each student will discover the tools, including hybrid objects, in order to finalize this project. 100 pts
- Project IX – Montana 2D** – A handout will be given to provide details of this project. Each student will draft the needed lighting equipment using separate layers, established drafting conventions, and any additional information to help clarify the finished project 100 pts
- Project X – Montana 3D** - Using the previous project as a basis, each student will adapt the lighting plot to a three-dimensional environment. Each student will discover the tools, including hybrid objects, in order to finalize this project. 200 pts

SCHOOL OF THEATRE & DANCE POLICIES

All Theatre & Dance students must have an in-depth knowledge of the practices and procedures outlined in the School of Theatre & Dance *Student Handbook*. The [Student Handbook](http://www.umt.edu/umarts/theatredance/About/default.php) is available online at “<http://www.umt.edu/umarts/theatredance/About/default.php>”

There is inherent risk involved in many Theatre & Dance classes as they are very physical in nature. Please proceed through class, shop time, or rehearsal with caution. Always be mindful of your personal safety and the safety of others. Students participating in class/shop/rehearsal/performance do so at their own risk.

Due to safety considerations, at no point during a student’s time spent in class or serving on a production (in any capacity) should non-enrolled persons be guests of that student without my consent. Presence of such unauthorized persons in a class, shop, or any backstage/off-stage area will affect negatively a student’s grade.

ACADEMIC MISCONDUCT AND THE STUDENT CONDUCT CODE

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or disciplinary sanction by the University. All students need to be familiar with the [Student Conduct Code](#). The policy is available at the following web address “http://www.umt.edu/vpsa/policies/student_conduct.php”

STUDENTS WITH SPECIAL NEEDS

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please contact DSS in Lommasson 154. I will work with you and DSS to provide an appropriate accommodation. For more information, please consult the [Disability Services for Students](#) website. “<http://life.umt.edu/dss/>”