

TPA 6258 Computer Drafting 2D (3D)

Instructor

Michael Clark

Course Description

This course introduces students to translating design thinking from technical drawing and sketching to computer drawing applications; CAD.

Phone

(352) 294-3937

Pre-Requisite Knowledge and Skills

Drafting Conventions. Computer Application Use.

Email

Michael@digitalworlds.ufl.edu

Purpose of Course

To provide an effective foundation of useful graphic communication. Instruct on a technique for the successful management of CAD drawings typical to a performing arts organization.

Office Location

McCarty 101

Office Hours

Mon 2-3p in
Zoom or Canvas
Chat or by Appt.

Objectives: By the end of this course, students will be able to:

- Understand the principals of working in a computer based visualization program environments regardless of software
- Collect, Capture and Manipulate digital content using industry-leading applications.
- Understand USITT graphic arts standards used in computer drawing.
- Create 2d Drawings from 3d forms and manipulate and create 3d forms to provide 2d drawing planes.
- Gain experience working effectively in a forum of open discussion and exploration.

Course Number

TPA 6258

Course Materials:

- **Required Textbook:** TBD - * for the 2020 Fall Semester PDF materials will be provided from suggested texts – including Drafting for the Theater, Inside Rhinoceros 5 and AutoCAD 2020 A power guide for beginner and intermediate users.
- Optional Reading: Current Material Updates, Application Forums, Online Tutorials
- This course demonstrates in the applications that are available in the current catalog of UF apps.

Semester/Year

FALL 2020

Course Credits

3 credits

Course Location

Course Convenes
ONLINE in Zoom
Other Locations TBD

Course Meeting Times

Mon (6) 12:50-1:40
Wed (6-7) 12:50-2:45

Course Schedule

This schedule is only a guide and is subject to change. Unless otherwise indicated, readings are to be completed by the first class session of the week in which they are listed on the syllabus.

Week	Subject	Assignment/Quizzes	Assignments Due
Week 1	Introductions, review of upcoming coursework class meeting and downloading process Configuring your system, workspaces, using commands, selecting objects and saving	Syllabus Review and Ratification	
Week 2	Creating Drawings – 1 Working with Drawing Aids and Layers using the tools, buttons, and ribbons	Assignment – drawing exercises to develop tool usage	Syllabus Review and Ratification
Week 3	Creating Drawings – 2 Modifying and Editing Drawings - 1 UISTT graphic standards for floor plans, and floor plan requirements	<i>Discuss Midterm Project</i> Assignment Class Project 1	
Week 4	Working with Dimensions and Dimension Style Editing Dimensions and Adding Text drafting floor plan from model		
Week 5	Modifying and Editing Drawings 2 Hatching and Gradients elevation and side section requirements		QUIZ
Week 6	Working with Blocks and Xrefs Working with Layouts drafting elevations from model		Class Project 1 Due
Week 7	Printing and Plotting Introduce 3D Basics and Create 3d Models plan layout requirements	<i>Class Review Project 1</i>	QUIZ
Week 8	Rhino Intro – NURBS Surface modeling Free-Form NURBS Curves and Point Objects	Class Project 2 - Assigned	Mid-Term Project Due
Week 9	Curves of a Regular Pattern Curve Manipulation		QUIZ
Week 10	NURBS Surface Manipulation		

Week	Subject	Assignment/Quizzes	Assignments Due
	Rhino Polysurfaces and Solids		
Week 11	Polygon Meshes Advanced Modeling Methods	Final Project Assigned	Class Project 2 Due – QUIZ
Week 12	Rhino Data Group, Block, and Work Session	<i>Class Review Project 2</i>	
Week 13	Drawing Output and Data Exchange Rendering		QUIZ
Week 14			Final Project Due
Week 15	Class Discussion and Review of Projects		

Evaluation of Grades

Assignment	Total Points	% of Grade
Syllabus Ratification, Class Participation and Attendance: Students are expected to actively participate in class exercises, discussions, both in class as well as in course online forums and outside class group meetings.	150	15%
Quizzes: Students will have quizzes hosted through Canvas. The quizzes cover the applications discussed during the course week. Quiz material include lectures, assignments, readings, and other external resources.	150	15%
Midterm Project: The project will demonstrate the student’s mastery of concepts, processes, and discussion from weeks 1-7.	200	20%
Final Project Presentation: In-class presentation of final group project. Each group should submit the final report and presentation at week 14	300	30%
Class Assignments: A series of cumulative assignments will be due during the term of the class.	200	20%

Projects

Midterm Project: (Individual) Plate of Drawing conventions. Students will submit a plate that shows USITT conventions along with examples of standard theatrical detail. Examples of lighting, staging, scenic, fabric and architectural elements will be shown

Final Project: (Individual) Drawing Package. Student is responsible for submitting a Ground Plan, Section on Centerline, Elevations and Perspective Drawing from a cohesive project.

Material and Grading Scale

Materials and Supply Fees

Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24). The total course fee for this class is \$x.xx

The total course fee for each course is listed on the UF Schedule of Courses. (<https://registrar.ufl.edu/soc/>).

Grading Scale

Letter Grade	% Equivalency	GPA Equivalency
A	94 – 100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
B	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
C	74 – 76%	2.00
C-	70 – 73%	1.67
D+	67 – 69%	1.33
D	64 – 66%	1.00
D-	60 – 63%	.67
E, I, NG, S-U, WF	0 – 59%	0.00

More information on grades and grading policies is here:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

Course Policies

Attendance Policy, Class Expectations, and Make-Up Policy

We value participation more than mere attendance. The instructor is responsible for communicating the specific details of what percentage of your grade (if any) will be assigned to participation, and how class participation will be measured and graded. Interaction with your peers and the instructor will empower you to greater achievement.

Attendance and participation are required for this course. Attendance will be taken every class period at the time the class is scheduled to start. If a student arrives after class begins, it is their responsibility to meet with the instructor after class to notify them that they were late and would like to receive a late attendance grade.

Only one (1) unexcused absence from class will be permitted without penalty. Each additional unexcused absence will lower your final grade by 5%. Two (2) late arrivals and/or early departures to/from class will count as one (1) absence. Three unexcused absences will result in a failing grade in this class.

Exempt from this policy are only those absences involving university-sponsored events, such as athletics and band, and religious holidays, family emergencies, and health issues for which **you must provide appropriate documentation in advance of the absence.**

Online classes are recorded and therefore it is the students choice to display their camera or not during the recording process. Students are expected to be present on camera at the class meeting time. Once recording begins they may opt of showing their camera image if they so wish. Students are expected to respond to instructor or classmate comment or questions in a reasonable time, unmuting and responding indicated a focus of attention. If the student is going to be away from the session, it is important to communicate with the instructor in the chat window and express that a need to be excused momentarily is required. Students are also expected to notify on return. Failure to do so or failure to timely respond will be considered as an unexcused

early departure.

Extensions on Assignments must be discussed with the instructor and approved 72 hours prior to the due date; late submissions will be penalized 9% of the grade for each 24 hours that transpires. After 72 hours the submissions will no longer be accepted and the grade will be registered at zero points.

Quizzes missed due to excused absences will be reopened in the Canvas module for the student to take at an appropriate time. If a quiz is missed due to an unexcused absence the score will be registered at zero points and there will be no opportunity for the student to make up the quiz.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

***COVID-19 Accommodation:** Students who are medically required to quarantine will have documentation from a medical provider. Students who self-quarantine must communicate with the instructor and “attend” courses remotely synchronously, when available, or asynchronously if approved by the instructor."

Projects due dates will be posted in Canvas. Students can suggest Additional or Bonus Projects if they have a specific item they want to work on. The course will require students to work outside class time. Class time will be divided into lecture demonstration and lab practical work in a group session.

Any student who feels his/her/their performance in a course has not been evaluated accurately should first discuss any concerns with the instructor. If the disagreement is not resolved at that level, the student should consult the department chair, and if still unresolved, contact the Associate Dean for Academic Affairs.

Course Technology

The students will be required to have access to and use a personal computer with the access to the Internet. CAD software will be required for class assignments. AutoCAD and Rhino3d for Windows are the preferred course software. These applications exist in other platforms, however it is highly recommended the student give serious consideration to learning from the PC platforms, which are further developed. Other platform use requires prior approval from the instructor before classes convene.

Course Communications

Students can communicate directly with the instructor regarding the course material through the course management system (CANVAS) using “Canvas Mail”.

Course Technology Support

The [Technology Support Center](http://digitalworlds.ufl.edu/support) provides computer support for Digital Worlds students who access Zoom, lecture recordings, student equipment, facilities and other technology-based resources.
<http://digitalworlds.ufl.edu/support>

For computer assistance related to Zoom, lecture recordings, student equipment, and facilities request please [Submit a Help Ticket](#) or email support@digitalworlds.ufl.edu.

Course applications are available through direct download from vendor websites and alternately through [UFAPPS](#)

For support related to account services, technical consulting, mobile device services, software services, administrative support, application support center, and learning support services, please contact the [UF Computing Help Desk](#) available 24 hours a day, 7 days a week at 352-392-4357 or helpdesk@ufl.edu.

UF Policies

University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Class Demeanor

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

Potentially offensive subject material should at minimum be accompanied with a warning to the viewer or avoided altogether. While the Instructor approves of critical thinking and controversial topics there will be no tolerance of any comment of content containing harassment; violent, threatening, defrauding or obscene material; accessing or publishing pornographic, sexual comments or images, racial slurs, gender-specific comments; any comments that could reasonably offend someone on the basis of their age, sexual orientation, religious or political beliefs, marital or parental status, physical features, national origin, or disability.

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Netiquette Communication Courtesy

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats, more information can be found at: <http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see:

<http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Campus Resources

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

E-learning Technical Support

352-392-4357 (select option 2) or e-mail to Learning- learning-support@ufl.edu

Career Connections Center

Reitz Union, 392-1601. Career assistance and counseling. <https://career.ufl.edu>

Library Support

Various ways to receive assistance with respect to using the libraries or finding resources.

<http://cms.uflib.ufl.edu/ask>

Teaching Center

Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>

Writing Studio

2215 Turlington Hall, 846-1138. Help brainstorming, formatting, and writing papers.

<http://writing.ufl.edu/writing-studio/>

Student Complaints Campus

<http://regulations.ufl.edu/wp-content/uploads/2012/09/1.0063.pdf>

Online Students Complaints

<http://www.distance.ufl.edu/student-complaint-process>

Disclaimer: This syllabus represents the instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.