

Course Syllabus

Fall 2018

ET 306 – CADD Applications I

CRN # 10169

2211 Science & Technology Center

3 credit hours

Monday-Wednesday- Friday 8:00 – 8:50 a.m.

Instructor: Dr. Daniel Trent
1153 Science & Technology Center

(662) 254-3414
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Catalog Description:

ET 306 –CADD Applications I – The course will provide complete instructions on mastering Computer Aided Drafting and Design (CAD) Systems. This course will focus upon the Application of CAD Systems to tasks consistent with accepted drafting and design standards.

Prerequisite: AT 303 – Introduction to CADD
Lecture 3 hours, Total 3 hours per week.

Purpose of this Course: This course will take knowledge gained in prior drafting courses and put it to practical use. The purpose of the course is to give the student experiences that simulate “real world” drafting and design situations. Students will use and expand their drafting knowledge and skills to design and create working drawings, plans and necessary drawings/views to design electrical layouts and to build a variety of parts, assemblies, and plats.

Textbook: *Exploring Drafting* (11th edition) by John R. Walker and Bernard D. Mathis (2012). Goodheart-Willcox Company, Tinley Park, Illinois. ISBN: 978-1-60525-405-0

Student Learning Outcomes: As a result of this course the learner will:

- 1) Exhibit mastery of professional skills by attending class regularly, completing and submitting assignments on time demonstrating positive attitude, strong work ethic, and taking responsibility for actions
- 2) Create high quality and complete working drawing sheet sets (including detail drawings and assemblies) for manufacturing physical products using AutoCAD software
- 3) Generate parametric models and create high quality and complete working drawing sheet sets for manufacturing physical products using parametric modeling software (SolidWorks)
- 4) Create high quality and complete working drawing sheet sets for constructing residential structures using architectural software (Chief Architect/Envisioneer)
- 5) Create high quality and complete electrical layouts for the production of electrical components/devices using AutoCAD software
- 6) Create high quality and complete working drawing sheet sets for solving civil engineering challenges using CADD software (AutoCAD/SolidWorks)
- 7) Utilize “Reverse Engineering” to interpolate data and generate drawings

Course Requirements for ET 306: The learner will:

- Attend class regularly and on time
- Complete all assignments accurately and on time
- Purchase the textbook
- Maintain drawings on a dedicated USB jump drive

Grade Standards and Weights for ET 306: All assignments must be submitted for grading by the due date. There are 8 elements that must be completed and submitted for grading in addition to the mid-term and final examination. Skills assessment based on attendance, attitude, professionalism, etc. will be included in assessing your final grade.

Mid-Term Examination. A comprehensive mid-term examination will be given half way through the semester. It will consist of questions concerning material covered in class lectures as well as a drawing exercise that will test your knowledge and skill in engineering graphics.

Final Examination. A comprehensive final examination will be presented at the end of the course that will consist of questions concerning material covered in class lectures as well as a drawing exercise that will test your knowledge and skill in engineering graphics.

Assessment item	Points
Engineering Assignments 8 @ worth 100 points	800
Mid-term examination	100
Final examination	100
Total points possible	1000

Letter Grade	Points	Numeric Grade
A	910-1000	91 – 100
B	810-909	81 – 90
C	710-809	71 – 80
D	610-709	61 – 70
F	Below 610	Below 61

Office Hours and Responses to Email and Telephone Inquiries: Office hours are posted on the instructor’s office door. Other hours may be arranged with the instructor by sending an email message to dan.trent@mvsu.edu or calling (662) 254-3414.

Class Policies

The following class policies are in effect throughout this course to ensure that a positive and equitable learning environment exists for all class members. Failure to follow these class policies may result in grading penalties. Policies for class include:

Attendance:

Students are expected to attend class. Any absentees will have a negative effect upon your final course grade. Students are responsible for and accountable for all information in lectures and all modifications to assignments presented in class. If a student misses a class, he or she is responsible for the material missed – even if a valid excuse is presented. **No make-ups will be given for missed assignments or examinations.**

Punctuality: Every student is expected to practice professional time management skills and report to class on time.

Professional Language/Respect: Professional language, conduct, and respect for peers, the instructor, and the learning process are a basic requirement. This is a “G” rated course

Disruptive Behavior: Effective learning environments require the attention and positive contribution of both student and teacher. Sidebar or loud conversations, jokes, laughter, pranks, etc., between and among students in the classroom while class is in session are disruptive to the learning environment. Students disrupting the class/learning environment in such a manner are subject to grading penalties.

Others Attending Class: Those who are not registered for the course are not permitted to attend. This includes, but is not limited to, boyfriends/girlfriends, children, siblings, spouses, etc.

Electronic Devices: No cellphones, iPads, iPods, etc. will not be used in class and should be turned off **BEFORE** you enter the classroom. Electronic device use will result in **immediate expulsion** from the lab.

Make-up Work: No make-ups assignments are available. Assignment due dates are announced well in advance and are FIRM. There are no exceptions for athletic travel. Assignments will only be accepted as called for by the instructor, on or prior to the due date.

Honor Code: Any work submitted is expected to be yours. Dishonesty (cheating) in any form will not be tolerated. Cheating will result in the student(s) involved being immediately dismissed from the class and receiving a grade of "F" for the course. Cheating includes submitting someone else's work as your own or allowing someone else to submit your work as theirs. Cheating will be determined at the sole discretion of the instructor.

Other: All other student conduct policies are in full effect as explained in the Mississippi Valley State University Undergraduate Catalog.

Accommodating Special Needs Students: Students with learning or physical disabilities admitted to this class will be expected to perform the same level of work at the same proficiency as students without disabilities. However, where necessary, alternative methods will be used to accommodate any learning or physical condition if it is made known to the instructor in advance. No student will be turned away from this class because of a disabling condition.

Mississippi Valley State University is committed to providing reasonable accommodations for students with a documented disability. If you feel you are eligible to receive accommodations for a covered disability (medical, physical, psychiatric, learning, vision, hearing, etc.) and would like to request it for this course, you must be registered with the Services for Students with Disabilities (SSD) program administered by University College. It is recommended that you visit the Disabilities Office located in the Social Science Building, Office 104 to register for the program at the beginning of each semester. If you are determined to be eligible after your confidential consultation, you will be provided with a Memo of Accommodations that must be submitted to each of your instructors.

For more information or to schedule an appointment, please contact Mr. Billy Benson, Jr. via phone or email at 662-254-3005 or billy.benson@mvsu.edu.

Withdrawals and Incompletes: A syllabus constitutes a contract between the student and the course instructor. Participation in this course indicates your acceptance of its teaching focus, requirements, and policies. Please review the syllabus and the course requirements as soon as possible. If you believe that the nature of this course does not meet your interests, needs or expectations, if you are not prepared for the amount of work involved or if you anticipate that the class meetings, assignment deadlines or abiding by the course policies will constitute an unacceptable hardship for you, you should drop the class by the drop/add deadline. **Incompletes will not be offered in this course.**

Use of Technology: THIS IS A WEB ENHANCED COURSE. The course web site (www.mvsuat.wordpress.com) will be the primary means of communication outside of class. The website contains a wealth of information including contact information for the professor, PowerPoint presentations used in class, handouts, assignments, due dates and more. Visit the website **BEFORE CLASS** to see what will be covered. Visit the website **AFTER CLASS** to see what was covered in the previous class.

This is a valuable resource. USE IT! [**www.mvsuat.wordpress.com**](http://www.mvsuat.wordpress.com)

Assignments, Due Dates and Grade Weights:

Storage Building Friday, September 14, 2018 100 points
 Cathedral Boat in AutoCAD Monday, September 23, 2018100 points
 Jon Boat in SolidWorks Wednesday, October 3, 2018 100 points
 Mid-Term Examination Friday, October 5, 2018100 points
 One Sheet plywood boat of your own design Wednesday, October 17, 2018.100 points
 Architectural Project Monday, October 29, 2018 100 points
 Electrical/Electronic Project Friday, November 2, 2018100 points
 Civil Project Wednesday, November 14, 2018 . . . 100 points
 Reverse Engineering Project. Friday, November 30, 2018100 points
 Final Examination December, 2018 100 points

TOTAL POSSIBLE POINTS = 1,000

Assignments, Due Dates and Grade Weights:

DATE	ASSIGNMENT	POINTS
September 14, 2018	Storage Building	100
September 23, 2018	Cathedral Boat in AutoCAD	100
October 3, 2018	Jon Boat in SolidWorks	100
October 5, 2018	Mid-Term Examination	100
October 17, 2018	One Sheet plywood boat of your own design	100
October 29, 2018	Architectural Project	100
November 2, 2018	Electrical/Electronic Project	100
November 14, 2018	Civil Project	100
November 30, 2018	Reverse Engineering Project	100
December, 2018	Final Examination	100
	TOTAL POSSIBLE	1000