

Course Syllabus

Spring 2019

AT 404 – Civil/Hydrology Drafting

CRN # 20553

2211 Science & Technology Center

3 credit hours

10:00 – 10:50 a.m. Monday, Wednesday and Friday

Instructor: Dr. Daniel Trent
1153 Science & Technology Center

(662) 254-3414
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Catalog Description: (From 2013-2015 Undergraduate Catalog)

AT 404 – Civil/Hydrology Drafting – Introduces computer aided drafting and design for civil/surveying applications. Applications include topographic mapping, site layout, highway design, hydrology tools and watershed analysis. Includes calculations and drafting of traverse adjustment, subdivisions, curbs and curves.

Prerequisites: ET 303 and ET 306. (3)
Lecture 3 hours, Total 3 hours per week.

Purpose of this Course: This course will build upon knowledge gained in prior drafting courses and focus on civil engineering applications. It will give the student experiences that simulate “real world” civil engineering drafting and design situations. Students will explore topics dealing with the mapping, surveying and the design of roads, bridges, dams, canals and other construction projects.

Textbook: No textbook is required for this course; HOWEVER, you may want to consider finding a good surveying/civil book to use as a reference. Many quality used books are available from a variety of sources at substantial savings. Visit Alibris.com, Amazon.com, Textbooks.com or others for pricing and availability.

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) Identify the different types of MAPS used in surveying
- 3) Identify the different types of SURVEYS used in civil engineering
- 4) Accurately measure distances and elevations
- 5) Accurately find/calculate DIRECTION using degrees, minutes, seconds as angular measure
- 6) Find bearings and azimuths
- 7) Identify map symbols
- 8) Construct civil and engineering drawings using metes and bounds
- 9) Generate profiles and cut and fill diagrams from topographic maps/contour lines
- 10) Conduct research and report it in written form
- 11) Make professional presentations

**This course will require MANY HOURS of work BEYOND
SCHEDULED CLASS TIME!**

Course Requirements for AT 404:

The student must:

- Attend class regularly and on time
- Complete all assignments accurately and on time
- Maintain all drawings neatly organized in folders on a dedicated (not shared with anyone or any other class) USB jump drive or similar external drive or store them in “the Cloud”

Grade Standards and Weights for AT 404: All assignments and quizzes must be submitted for grading by the due date. The course is divided into 8 **ENGINEERING ACTIVITY PACKETS** (EAP's) worth 2000 points each. A breakdown of activities and assignments will be presented in your EAP with the point value included for each item. Elements may include attendance, quizzes, writing assignments, outside readings, drawings, etc.

Writing Assignment. In an effort to support the University in addressing a national trend toward poor student performance in writing, a writing assignment has been added to all courses in the Department of Engineering Technology. This writing assignment will be included in one of your Engineering Activity Packets.

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 Activity Packets 8 @ worth 2000 points	16000
Mid-term examination incorporated in an EAP	
Final examination incorporated in an EAP	
Total points possible	\$16,000

Letter Grade	Points	Numeric Grade
A	14,560 -16,000	91 – 100
B	12,960 -14,559	81 – 90
C	11,360 -12,959	71 – 80
D	9,760 -11,359	61 – 70
F	Below 1220	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

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

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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. Attendance means arriving on time and remaining in class for the duration of the class. Phone calls and rest room breaks should be addressed prior to arrival. Any absentees will have a negative effect upon your final course grade. Attendance and class preparation is included in all EAP's. Students are responsible 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 daily assignments.**

Punctuality: Every student is expected to practice professional time management skills and report to class on time and remain in class for the entire duration of class.

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.

Pets: No pets of any kind are allowed in class. This includes “emotional support” animals, etc. Legitimate certified service animals that provide assistance to handicapped individuals are permitted provided that they do not disturb the learning environment.

Personal Hygiene: Students are expected to arrive in class clean and dressed professionally. Students who engage in the “overuse” of colognes or perfumes will be asked to leave the class. Students who arrive to class smelling of smoke of any kind will be asked to leave. The odor of illegal substances will be referred to the campus police.

Electronic Devices: Cellphones, tablets, iPads, iPods, etc. will not be used in class and must be **turned off** before entering the classroom. **NO EXCEPTIONS! All phones will be turned off and placed in the designated “resting” location upon entering the classroom. They may be retrieved when you leave at the end of class.**

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, military exercises or other pre-planned absences. Students are encouraged to complete assignments EARLY and to submit them PRIOR TO THE DEADLINE. Assignments will only be accepted as called for by the instructor, on or prior to the due date. **No make-ups will be given for missed assignments or examinations.** **An excuse from the Office of Student Affairs DOES NOT EXCUSE the student from work or assignments missed during the absence! Plan accordingly.**

Honor Code: Any work submitted is expected to be yours. 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. Dishonesty in any form will not be tolerated and will be handled by your instructor following the "*Academic Sanctions for Cheating or Plagiarism*" as published in the 2013-2015 Mississippi Valley State University Undergraduate Catalog. The instructor has the prerogative of lowering the grade, assigning a grade of "0" or "F" for the work submitted, assigning a grade of "F" for the entire course, removing the offender from the course, or recommending another penalty, including dismissal from the University.

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 105 to register for the program at the beginning of each semester. For more information or to schedule an appointment, please contact Mrs. Kathy Brownlow, via phone or email at 662-254-3443 or kbrownlow@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.**

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OUTSIDE WORK IS REQUIRED!