

Course Syllabus

Fall 2018

ET 499-01 – Senior Project

CRN #10171

2211 Science & Technology Center

3 credit hours

Monday, Wednesday & Friday 1:00 – 1:50 p.m.

Instructor:
Dr. Daniel Trent

(662) 254-3414

Catalog Description:

ET 499 – Senior Project – This capstone course provides the opportunity for the student to conduct research and to design/build projects in their specific concentration.

Prerequisite: Senior status

Lecture 3 hours, Total 3 hours per week.

Purpose of this Course: This course will allow seniors in the Department of Engineering Technology to showcase knowledge and skills learned in their undergraduate courses. Students will work with their concentration advisor to develop a scholarly project that demonstrates a high degree of aptitude in their field. The project will address: historical significance (timeline), important individuals and groups (pioneers), and future trends and directions. The project will be physical in nature and will reflect college level proficiency in design and execution.

Textbooks: No text is required; however, students are encouraged to utilize all books and resources used in their academic career at MVSU.

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) Develop and deliver professional presentations
- 3) Develop and follow a schedule for completion of multifaceted engineering projects
- 4) Develop a technological timeline outlining key events that led to the current state of engineering practice
- 5) Discuss careers in engineering technology specific to their concentration
- 6) Perform a degree audit, register for spring semester courses and apply for graduation

Course Requirements for ET 499: The course will focus on four components: a research paper (the DOCUMENT) that adheres to the American Psychological Association (APA) style manual, a professional quality PRESENTATION using either Microsoft PowerPoint or Prezi, a POSTER that clearly and concisely describes the work, and a high quality DISPLAY. The display should clearly illustrate the concept/topic explored in the research. It should include a MODEL, if possible. If no model is utilized, information must be presented in a format that is equally simple to understand.

As a result of completing this class the learner will:

- Attend class regularly and on time
- Complete all assignments accurately and on time
- The **DOCUMENT**:
 - Work with their concentration advisor to select an appropriate project to investigate and report
 - Include **TIMELINE** of significant events/milestones in the evolution of the chosen topic
 - Include significant **PEOPLE** and/or **GROUPS** who are important to the development of the topic as it exists
 - Use APA style to produce a formal document that accurately and thoughtfully presents all facets of the selected topic
- The **PRESENTATION**
 - Create a professional presentation using PowerPoint or Prezi that clearly and completely encompasses the research reported in the document
 - Use the presentation to communicate information contained in the document to a live audience
- Create The **POSTER**
 - Create a **POSTER** for a **POSTER SESSION** that clearly and concisely your work. A PowerPoint slide is a good format for generating a quality poster.
 - The poster must stand alone – it contains all information about your topic with no other resources (no model, no paper, just YOU!).
- Create The **DISPLAY**
 - Create a professional, high quality display that clearly conveys research contained in the written document
 - A physical **MODEL** is the preferred “centerpiece” of the display. If a model is not deemed practical for the research, an appropriate substitute of equal impact must be utilized

Grade Standards and Weights for ET 499: All assignments must be submitted for grading by the due date. There are 4 sets of “practice projects” that coincide with the 4 elements included in the project (the **DOCUMENT**, the **PRESENTATION**, the **POSTER** and the **DISPLAY**). These three elements in the completed project will comprise the bulk of the grade. Skills assessment based on attendance, attitude, professionalism, etc. will be included in assessing your final grade.

The Mid-Term Examination will be a “progress update” presentation and include all the materials and information you have collected to this point in an organized, easy to understand format. Your topic must be clearly defined and outlined by mid-terms (October 4, 2017). You must have a clear plan of what you plan to present and how it will be presented by mid-term day (October 4th).

Final Examination is the culmination of all of your work this semester (actually during your academic career at MVSU). This final presentation must be well organized, accurate, neat, and professional. It should reflect college senior work.

| Assessment item | Points | Percentage |
|------------------------------------|--------|------------|
| PRACTICE DOCUMENTS (Paper and Log) | 10 | 5% |
| PRACTICE POSTER | 10 | 5% |
| PRACTICE DISPLAY | 10 | 5% |
| PRACTICE PRESENTATION | 10 | 5% |
| FINAL DOCUMENT | 40 | 20% |
| QUALITY POSTER | 40 | 20% |
| PROFESSIONAL DISPLAY | 40 | 20% |
| FINAL PPT or PREZI PRESENTATION | 40 | 20% |
| Totals | 200 | 100% |

| Letter Grade | Points | % | Numeric Grade |
|--------------|-----------|-----|---------------|
| A | 181-200 | 91+ | 91 – 100 |
| B | 161-180 | 81+ | 81 – 90 |
| C | 141-160 | 71+ | 71 – 80 |
| D | 121-140 | 61+ | 61 – 70 |
| F | Below 121 | -60 | Below 61 |
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Office Hours and Responses to Email and Telephone Inquiries: Office hours are posted on each instructor's office door. Other hours may be arranged with the instructor by sending an email message or leaving a telephone message.

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 sanctions per the student handbook. 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.

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: 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 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!**

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.**

Second Chance: Past experience indicates that some students “put off” working on this project until the end of the semester when it is too late! The senior project is, indeed, a LOT OF WORK! If you fall behind it is easy to become overwhelmed. Some students lack the organizational, time management and tactile skills necessary to complete a project of this nature successfully. Therefore, we will offer a “second chance” opportunity for students who cannot master the traditional senior project.

If a failing grade is awarded during the fall semester students may request a comprehensive examination of all of their core courses in Engineering Technology. This will include information presented in their concentration courses AND information from core courses in Engineering Technology (Print Reading, Technical Writing, Supervisory Management, Industrial Psychology, Industrial Safety, History of Technology, Quality Control Management, Production Management and Seminars). The examination will be a combination of both written and oral questions.

A student may attempt the comprehensive up to three times. A minimum of 70% or the given responses must be correct to pass the test on the first attempt, 75% on the second attempt and 80% on the third and final attempt. The questions will not be the same on subsequent tests and the volume of test questions will increase with each attempt.

This is not an alternative to the traditional senior project. It is a second chance for students who failed the traditional 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

Tentative Schedule – Due Dates

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|--------------------|-----------------------|-----------------|
| September 5 | Practice Document | 10 points – 5% |
| September 12 | Practice Poster | 10 points – 5% |
| September 19 | Practice Presentation | 10 points – 5% |
| September 26 | Practice Display | 10 points – 5% |
| October 10 | Document Due | 40 points – 20% |
| October 17 | Poster Due | 40 points – 20% |
| October 24 | Presentation Due | 40 points – 20% |
| October 26 | Display Due | 40 points – 20% |
| Week of November 5 | Presentations | |