CEE 536 PROJECT PLANNING SCHEDULING AND CONTROL
Fall 2025: Mon Aug 26 – Mon Dec 9

Lectures:	TTh 10:30 - 12:00, 2153 GGBL
Instructor:	Professor Photios G. Ioannou (pronounced: ee-o-a´-nou) Office: 2000 G.G. Brown Email: photios@umich.edu http://www.ioannou.org
Textbook:	Harris, R.B., *Precedence and Arrow Networking Techniques for Construction*, John Wiley and Sons, 1978.
Course Notes:	PDF files available through the CEE536 website on Canvas
Recommended:	P.G. Ioannou, C. Srisuwanrat, *CEE536 Example Problems* (200 pages) available to download through the course website on Canvas.

The CEE536 Textbook is required. Students must study both the Textbook and the Course Notes.

Course Outline: Numbers indicate Chapters in Textbook (supplemented by Course Notes)

1-2. Introduction & Project Breakdown (notes)
4. Precedence Networks (notes)
3. Arrow Networks & Examples from NASA (notes)
5. Activity Durations (notes)
6. Arrow Network Computations (notes)
7. Precedence Network Computations (notes)
8-9. Project Reporting and Project Control (notes)
12. PERT (notes)
10. Time-Cost Tradeoff (notes)
11. Limited Resource Allocation (11.1-11.4, notes)
11. Unlimited Resource Leveling (11.5-end, notes)
13. Overlapping Networks (notes)
Repetitive Scheduling Method (notes)
Criticality and floats in resource-restrained schedules (notes)

Course requirements and grading policy

Homework	**25%**
Project	**10%**
Two Quizzes (2*20%)	**40%**
Final Exam	**25%**
Total	**100%**

Fall 2025 Schedule:

Lectures	T-Th	Aug. 26 - Dec. 4	10:30-12:00
Quiz 1	Thursday	Oct. 16	10:30-12:00
Project due	Tuesday	Nov. 11	10:30
Quiz 2	Tuesday	Dec. 2	10:30-12:00
Final Exam	Monday	Dec. 15	10:30-12:30

CEE 536 Course Plan for Fall 2025

U-M Health Response:

- The U-M Health Response website is the place for answers to health-related questions and the latest U-M health-related policies. Please see the links below:
  https://healthresponse.umich.edu/
  https://healthresponse.umich.edu/faqs

Class Attendance

U-M requires in-person student class attendance. Students who cannot attend a class in person due to health reasons must inform the instructor immediately and must provide proof of health status.

Videos of the in-person class presentations will be made available through Canvas to accommodate students who may not be able to attend class in person due to health reasons.

Course Management:

CEE536 will be managed through its **Canvas** website as follows.

Course Material:

Each Regularly Scheduled Class, such as "10:30-12:00 on Sept 4, 2025", will have its own separate **Canvas Module** that will bundle together all the material for that class, such as Assignments, Class Notes (PDF files), Examples, etc. The name of the Module will indicate the **class date**. Students will go to the Canvas Module for each class date and know what to study and what to do.

Homework & Term Project

Homework and the Term Project will be made available on Canvas. Each weekly homework assignment will typically be due in a week. Students will scan or take a photo of their answer to the homework, save it as a good quality PDF file, and upload the PDF file to Canvas. Students are expected to do their homework by hand on paper (this is the best way to learn the material and be ready for in-class exams). Students may use general software, such as *Word, Excel, Visio,* etc., to do their homework.
IMPORTANT: Students may NOT use scheduling software, such as *MS Project* or *Primavera P6,* etc., to do their homework. For the CEE536 Term Project, however, students may use any tools, including scheduling software such as *MS Project* or *Primavera P6,* etc.

Two Quizzes and Final Exam

The two Quizzes and the Final Exam are taken without books or notes (i.e., "with books closed") and will be held in-person in the regular classroom at the dates and times shown in the above schedule.

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Honor Code Policy

All work is performed under the College of Engineering Honor Code.

All work, including homework assignments, term projects, and exams, are to be completed by each student working independently.

- Students are not allowed to consult with other students or anyone else (except the course instructor). All work, whether in scrap or final form, must be generated by each student working alone.

- Students are not allowed to possess, look at, use, or in anyway derive advantage from the existence of problem sets, exams, solutions, term projects, or any work prepared by other students in this term or past terms.

- All work done by students using a computer must be theirs alone. Each student must have entered every keystroke or mouse command for their own work.

If students become aware of any violations to the Honor Code, they should bring the matter to the attention of the instructor immediately.

Quizzes and Exams are taken with closed books during class time as scheduled by U-M and all work during exams is completely independent.

Violation of this policy is grounds to initiate an action that would be filed with the Dean's office and would come before the College of Engineering's Honor Council.

If you have any questions about this policy, please do not hesitate to contact the Instructor.