CEE 538 Computer-Aided Project Management
Fall 2025: Mon Aug 25 – Mon Dec 8

Lectures/Lab: Tu-Th 2:30 - 3:30
1025 GGBL

Instructor: Professor Photios G. Ioannou (pronounced ee-o-a´-nou)
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Prerequisite: Preceded or accompanied by CEE536 (or MFG536)

Reference Material from CEE536

Notes: P.G. Ioannou, CEE536 Course Notes
Textbook: Harris, R.B., "Precedence and Arrow Networking Techniques for Construction", John Wiley and Sons, 1978.

Course Description

Introduction to the application of modern project management computer systems, including Primavera P6 Professional and Microsoft Project, for construction project planning, scheduling and control. This course must be accompanied or preceded by CEE536 (or MFG536).

Project Management Software Availability (both require Windows)

Primavera P6 Professional:
Available in CAEN labs and through VMware Horizon:
https://caen.midesktop.it.umich.edu/
Free to download and install from https://edelivery.oracle.com (requires free registration)
Important: For the latest patched version of P6 Pro check the course website on Canvas.

Microsoft Project Pro:
Available in CAEN labs and through VMware Horizon, as above.
Free for engineering students. Download from *Microsoft Azure Dev Tools for Teaching*:
https://azureforeducation.microsoft.com/devtools

Lab Assignments and Reports

CEE538 is a Lab course in which students learn the underlying concepts and investigate the capabilities of professional project management software by modeling example projects.

(a) Lab assignments are based on projects whose solutions are known to students. This facilitates the comparison between the results of various scheduling techniques.
(b) Cooperation among students is both allowed and encouraged as an invaluable learning aid on how to best use the project management software.
(c) Reports for assignments, however, must be the result of each student's individual work.
(d) The course does not have exams and is graded as P/F or S/U. To pass the course students must complete all Lab assignments satisfactorily.

Topics for Lab Assignments and Reports

- Planning and Scheduling Precedence (Activity-on-Node) Networks — Projects, Calendars, Activities, Links, Graphical networks, Gantt chars, etc.
- Resource-based planning and scheduling— Resource definitions, costs, schedules, availability, resource-driven scheduling, resource leveling, limited resource allocation.
- Project Reporting and Control – Target schedules, baseline, project monitoring, evaluating and updating.

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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 to accommodate students who may not be able to attend class in person due to health reasons.

Course Management:

CEE538 will be managed through its **Canvas** website.

CEE538 Computer-Aided Project Scheduling

Honor Code Policy

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

All submitted work must be the result of each student's own work.

Students are allowed and encouraged to work together and consult with other students. However, students must not submit other people's work as their own.

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.