



CTC 212
Microstation; 2 Credit Hours
Jayne Baran

Time: Tuesday 9-9:30
Classroom: Donovan
Fall 2015

Office Hours and Contact Info:

Tuesday (10-noon)/Wed (noon-2)
(Or by appointment)
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Donovan Hall 1205
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Course Description:

Basics of CAD as applied to civil engineering technology using Microstation V8i software for typical civil technology applications, such as: structures design drawings, highway layouts, detailing, traffic flow diagrams, etc. One hour of lecture and two hours of laboratory per week.

Learning Outcomes:

By the end of the semester, students will be able to:

1. Utilize Microstation software to plan and prepare drawings appropriate for design and construction (Student Outcome 3)
2. Recognize the need for professionalism and excellence by generating high-quality technical drawings on-time (Student Outcome 8)

Required Text and Materials:

Harnessing Microstation V8I 1st Edition by Krishnan and Taylor, [Delmar Publishers](#), 2010, ISBN-13: 978-1-14354-9984-3, ISBN-10 1-4354-9984-0

Computer Usage:

The syllabus, assignments, class schedule and grades will be posted on the web at <http://www.sunyit.edu/~barans>

Topics and Projects:

| Topics: | Description | Hrs |
|---------|------------------------------------------------------------------------|-----|
| 1 | Overview, beginning a new drawing, commands and drawing aids | 2 |
| 2 | Fundamentals I-precision input; adding and deleting elements | 1 |
| 3 | Fundamentals II-element modification and manipulation | 1 |
| 4 | Fundamentals III-multiple element modification and manipulation; views | 1 |
| 5 | Measuring and Dimensioning | 1 |
| 6 | Placing Text | 1 |
| 7 | Plotting | 0.5 |
| 8 | Cells-Cell creation and manipulation | 1 |
| 9 | Patterning-basic hatch, pattern areas, selection and element fill | 1 |

| | | |
|----|---------------------------------------------|---|
| 10 | Reference files-reference file manipulation | 1 |
| 11 | Intro to 3D files and rendering | 1 |
| 12 | Oral Presentation on Assigned 3D topic | 1 |
| 13 | Midterm and Final Project | 2 |

Methods of Evaluation:

CAD Drawing Assignments:

Drawings should be turned in on-time and include a CAD log.

Oral Presentation:

One oral presentation on an assigned 3D topic will be required.

Examinations:

There will be one midterm project and one final project scheduled during the semester. Generally, no make-up test will be given except for medical emergencies or other valid reasons for which prior approval has been obtained.

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|-------------------------|-------------|
| CAD Drawing Assignments | 50% |
| 3D Presentation | 10% |
| Midterm Project | 20% |
| Final Project | 20% |
| TOTAL | 100% |

Policy on Attendance/Missed Classes/Make-up Work/Extra Credit

Regular class attendance is expected. No late assignments will be accepted. Generally, no make-up work or extra credit will be given unless prior approval has been obtained.

Code of Conduct:

Students are referred to the Student Handbook for SUNYIT’s current Code of Academic Conduct regarding plagiarism and other inappropriate academic activities.

Cancellation of Classes:

Due to Inclement Weather: SUNYIT has a 24-hour snowline to announce class cancellation due to severe weather. This snowline will only announce school closure or cancellation of ALL classes. On-campus, it may be reached by dialing ext. 7669 (“SNOW”). Off campus, dial 792-7385. School closure will also be broadcast on radio and television in the Utica, Syracuse, and Albany areas. Individual class cancellation will be available online at: www.sunyit.edu quick link “cancelled classes.”

Accommodations for Students with Disabilities:

In compliance with the Americans with Disabilities Act of 1990 and with Section 504 of the Rehabilitation Act, SUNY Polytechnic Institute is committed to ensuring educational access and accommodations for all its registered students seeking access to meet course requirements and fully

participate in programs or activities. SUNY Poly students with documented disabilities and medical conditions are encouraged to request these services by registering with the Disability Services Office and discussing their need for accommodations. For information or an appointment contact Suzanne Sprague, Disability Services Coordinator, at the Disability Services Office, located in room B101 Kunsela Hall or by phone (315) 792-7170; or email Suzanne.sprague@sunyit.edu.