

CTC 112
Microstation; 2 Credit Hours
Jayne Baran

Time: M/W Class 9:20-10:10
Classroom: Donovan G143
Fall 2020

Office Hours and Contact Info:

<http://people.sunyit.edu/~barans/schedule.htm>

(Or by appointment)

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Course Description:

Basics of CAD as applied to civil engineering technology using Microstation Connect software for typical civil technology applications, such as structures design drawings, highway layouts, detailing, traffic flow diagrams, etc. Two hours of lecture/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
2. Recognize the need for professionalism and excellence by generating high-quality technical drawings on-time

Required Text and Materials:

Microstation 10 Connect Training Manual-2D Level 1 by Peter A. Mann, Electronic version available at Micro-Press.com

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; Intro to 3d Printing	2
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 Powerpoint:

One oral presentation prepared using powerpoint 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.

CAD Drawing Assignments	40%
Attendance	10%
Oral 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. All students will wear a mask during class.

Code of Conduct:

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

Cancellation of Classes:

SUNY Poly has a 24-hour hotline to inform students, faculty and staff when severe winter weather prompts the cancellation of all classes. On-campus, you can call the "Snowline" by dialing ext. 7669 ("SNOW"). Off-campus, Snowline can be reached by calling 315-792-7385. Snowline cards are available at various locations on campus.

In the event of severe weather, Snowline will announce only the cancellation of ALL classes. The cancellation of all classes will also be posted online, at sunypoly.edu, and will be broadcast on radio and television stations in the Utica-Rome, Syracuse, and Albany areas. Individual class cancellations are always available at sunypoly.edu/apps/canceled_classes.

COVID-19

"Students are referred to regulations, rules, policies and standards specified in SUNY Polytechnic's current Student Handbook and Student Code of Conduct (<https://sunypoly.edu/student-life/community-standards.html>). They apply to all student conduct relevant to the operations of this course. This includes, among others, 1) academic integrity, 2) conduct in the classroom / lab and on the course website, and 3) adherence to policies regarding COVID-19 safeguards.

For this semester specifically, please be aware that face coverings that cover both the nose and mouth are required at all times on campus. This includes all buildings, classrooms, shared laboratory areas, conference rooms, restrooms, elevators, hallways, corridors, entrances, common areas, lobbies, offices, etc., and outdoors when in crowded areas such as walkways, entrances, during fire drills, etc.

Accommodations for Students with Disabilities registered at SUNY Polytechnic Institute

In compliance with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act, SUNY Polytechnic Institute is committed to ensuring educational access and accommodations for all registered students seeking access to meet course requirements and fully participate in programs and activities. Students with documented disabilities or medical conditions are encouraged to request these services by registering with the Office of Disability Services. For information related to these services or to schedule a virtual appointment, please contact the Office of Disability Services using the information provided below and visit <https://sunypoly.edu/student-life/diversity-inclusion/disabilities-services.html>

Megan Wyett Lennon, Interim Director
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Peter J. Cayan Library, L145