



CAD DRAFTING TECHNOLOGY

Engineering, Math and Physical Sciences
Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/cad

This program prepares students for employment and advancement in Computer Aided Design (CAD). CAD Drafters work under the supervision of an engineer or designer creating drawings. With additional education and experience the graduate may advance to designer, checker, or supervisor. Drawings are produced using a variety of CAD/CAM software. Students may select a program from the following options: Mechanical, and Graphics Animation and Presentation

SUMMER **3**

MET 214 ** Mechanical Design and Drafting 3

THIRD SEMESTER **12**

ECO 110 Economics for Business and Industry 3

CAD 270 *** Solidworks II 3

CAD 271 *** Inventor II 3

CNC 218 Introduction to MasterCam 3

FOURTH SEMESTER **9**

CAD 276 *** Creo II 3

MET 111 Manufacturing Processes 3

CAD 217 *** AutoCAD II 3

Total Hours for A.A.S. Degree **61**

^ The credit for CLC 120, College Success Seminar, is an institutional requirement for graduation. It is not part of the program requirements but must be completed with a D or better.

* Summer only

** Fall only

*** Spring only

Prerequisite required

CAD DRAFTING TECHNOLOGY: MECHANICAL OPTION

**Degree: Associate in Applied Science,
CAD Drafting Technology: Mechanical Option
Plan 24DC**

To complete an A.A.S., students are **strongly encouraged** to meet with an Academic Success Advisor to identify coursework that will meet degree requirements.

SUMMER **4**

CLC 120 ^ College Success Seminar [2]

CAD 111 * CAD Drafting Applications 4

FIRST SEMESTER **15**

ART 124 Drawing I 3

CAD 110 CAD/CAM Concepts 3

CAD 117 Introduction to AutoCAD 3

CAD 170 Introduction to Solidworks 3

CMM 111 Communication Skills 3

SECOND SEMESTER **18**

ENG 120 Technical Composition I 3

MTH 115 Applied Mathematics II 3

CAD 171 Introduction to Inventor 3

MTT 112 Machining Principals 3

CAD 176 Introduction to Creo 3

CAD 211 *#** Geometric Dimension and Tolerancing 3

**CAD DRAFTING TECHNOLOGY:
GRAPHICS, ANIMATION, AND
PRESENTATION OPTION**

**Degree: Associate in Applied Science,
CAD Drafting Technology: Graphics,
Animation and Presentation Option
Plan 24DJ**

To complete an A.A.S., students are **strongly encouraged** to meet with an Academic Success Advisor to identify coursework that will meet degree requirements.

SUMMER SESSION	4
CLC 120 ^ College Success Seminar	[2]
CAD 111 * CAD Drafting Application	4

FIRST SEMESTER	18
ART 124 Drawing I	3
CAD 110 CAD/CAM Concepts	3
CAD 117 Introduction to AutoCAD	3
CAD 170 Introduction to SolidWorks	3
CAD 176 Introduction to Creo	3
CMM 111 Communication Skills	3

SECOND SEMESTER	15
CAD 171 Introduction to Inventor	3
CAD 178 Introduction to Revit	3
ENG 120 Technical Composition	3
MTH 115 Applied Mathematics II Technical Elective	3

THIRD SEMESTER	12
ART 222 Computer Art I	3
ART 263 # 2D Computer Animation	3
CAD 179 Introduction to Autodesk 3Ds Max	3
CAD 278 *** Revit II	3

FOURTH SEMESTER	12
DMD 121 Introduction to Graphic Design	3
CAD 217 ***# AutoCAD II	3
DMD 111 Introduction to Digital Media Social Science Elective	3

Total Hours for A.A.S. Degree **61**

TECHNICAL ELECTIVES:

A broad choice of technical electives is available. See an advisor in the CAD department for approval of electives.

ART 263	2D Computer Animation	3
ART 264	3D Computer Animation	3
CAD 110	CAD-CAM Concepts	3
CAD 111 *	CAD Drafting Application	4
CAD 117	Introduction to AutoCAD	3
CAD 170	Introduction to SolidWorks	3
CAD 171	Introduction to Inventor	3
CAD 176	Introduction to Creo	3
CAD 177 ***	Civil Drafting #	3
CAD 178	Introduction to Revit	3
CAD 179	Introduction to Autodesk 3ds Max	3
CAD 211 ***	Geometric Dimension and Tolerancing	3
CAD 217 ***	AutoCAD II	3
CAD 270 **	SolidWorks II	3
CAD 271 **	Inventor II	3
CAD 276 ***	Creo II	3
CAD 278 ***	Revit II	3
CAD 279 ***	Design Visualization Using 3ds Max	3
CNC 218	Introduction to MasterCam	3
DMD 157	Introduction to Animation	3
EGR 140	How to Make Anything	3
ELT 111	Electronic Drafting	2
EWE 120	Job Readiness Skills	1
EWE 220	Cooperative Work Experience I	2
LPO 111	Fundamentals of Light and Lasers	4
LPO 145	Photonic CAD Applications	3
MET 111	Manufacturing Processes	3
MET 112	Basic Metallurgy I	3
MET 214	Mechanical Design and Drafting	3
MTH 115	Applied Mathematics II	3
MTT 111	Machine Shop I	3
MTT 112	Machining Principles	3

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* Summer only
** Fall only
*** Spring only
Prerequisite required

**CAD DRAFTING TECHNOLOGY - GRAPHICS,
ANIMATION, AND PRESENTATION
(Certificate) Plan 24DK**

This advanced certificate is designed for the individual who possesses education or experience in computer aided design (CAD) or graphic arts. The certificate fills the gap between CAD and computer-generated art and provides the graduate with the skills to create sophisticated computer enhanced presentations for use in a variety of applications.

FIRST SEMESTER	12
CLC 120 ^ College Success Seminar	[2]
CAD 110 CAD/CAM Concepts	3
CAD 117 Introduction to AutoCAD	3
DMD 111 Introduction to Digital Media Technical Elective	3

SECOND SEMESTER	9
ART 222 Computer Art I	3
ART 263 # 2D Computer Animation Technical Elective	3

Total Hours for Certificate **21**

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Prerequisite required
*** Spring only

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MANUFACTURING, ENGINEERING, AND
ADVANCED TECHNOLOGIES PROGRAMS

TECHNICAL ELECTIVES:

A broad choice of technical electives is available. See an advisor in the CAD department for approval of electives.

ART 263 #	2D Computer Animation	3
ART 264 #	3D Computer Animation	3
DMD 121	Introduction to Graphic Design	3
CAD 110	CAD-CAM Concepts	3
CAD 111 *	CAD Drafting Applications	4
CAD 117	Introduction to AutoCAD	3
CAD 170	Introduction to SolidWorks	3
CAD 171	Introduction to Inventor	3
CAD 176	Introduction to Creo	3
CAD 177 ***	Civil Drafting #	3
CAD 178	Introduction to Revit	3
CAD 179	Introduction to Autodesk 3ds Max	3
CAD 211 ***#	Geometric Dimension and Tolerancing	3
CAD 217 ***#	AutoCAD II	3
CAD 270 **#	SolidWorks II	3
CAD 271 **#	Inventor II	3
CAD 273	Advanced CAD Specialization	1-3
CAD 276 ***#	Creo II	3
CAD 278 **#	Revit II	3
CAD 279 ***	Design Visualization Using 3ds Max	3
CNC 218	Introduction to MasterCam	3
DMD 157	Introduction to Animation	3
EGR 140	How to Make Anything	3
ELT 111	Electronic Drafting	2
EWE 120	Job Readiness Skills	1
EWE 220	Cooperative Work Experience I	2
LPO 111	Fundamentals of Light and Lasers	4
LPO 145	Photonic CAD Applications	3
MET 111	Manufacturing Processes	3
MET 112	Basic Metallurgy I	3
MET 214 #	Mechanical Design and Drafting	3
MTH 115	Applied Mathematics II	3
MTT 111	Machine Shop I	3
MTT 112	Machining Principles	3

* Summer only
** Fall only
*** Spring only
Prerequisite required

CAD DRAFTING TECHNOLOGY - ARCHITECTURAL/CIVIL (Certificate) Plan 24DN

FIRST SEMESTER		6
CLC 120 ^	College Success Seminar	[2]
CAD 110	CAD/CAM Concepts	3
CAD 117	Introduction to AutoCAD	3
SECOND SEMESTER		9
CAD 178	Introduction to Revit	3
CAD 177 ***	Civil Drafting	3
CAD 217 ***#	AutoCAD II	3
THIRD SEMESTER		3
CAD 278 **#	Revit II	3
Total Hours for Certificate		18

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** Fall only
*** Spring only
Prerequisite required

CAD DRAFTING TECHNOLOGY - 3D PARAMETRIC (Certificate) Plan 24DP

SUMMER SESSION		4
CLC 120 ^	College Success Seminar	[2]
CAD 111 *	CAD Drafting Applications	4
FIRST SEMESTER		9
CAD 170	Introduction to Solidworks	3
CAD 171	Introduction to Inventor	3
CAD 176	Introduction to Creo	3
SECOND SEMESTER		6
CAD 276 ***#	Creo II	3
CAD 211 ***	Geometric Dimensioning and Tolerancing	3
THIRD SEMESTER		6
CAD 270 **#	SolidWorks II	3
CAD 271 **#	Inventor II	3
Total Hours for Certificate		25

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* Summer only
** Fall only
*** Spring only
Prerequisite required

**CAD DRAFTING TECHNOLOGY - AUTOCAD
(Certificate) Plan 24DQ**

SUMMER SESSION	4
CAD 111 * CAD Drafting Applications	4
FIRST SEMESTER	6
CAD 110 CAD/CAM Concepts	3
CAD 117 Introduction to AutoCAD	3
SECOND SEMESTER	3
CAD 217 ***# AutoCAD II	3
Total Hours for Certificate	13

* Summer only
*** Spring only
Prerequisite required

**CAD DRAFTING TECHNOLOGY - CREO
(Certificate) Plan 24DT**

SUMMER SESSION	4
CAD 111 * CAD Drafting Applications	4
FIRST SEMESTER	3
CAD 176 Introduction to CREO	3
SECOND SEMESTER	6
CAD 276***# CREO II	3
CAD 211 ***# Geometric Dimension and Tolerancing	3
Total Hours for Certificate	13

* Summer only
*** Spring only
Prerequisite required

**CAD DRAFTING TECHNOLOGY -
SOLIDWORKS
(Certificate) Plan 24DS**

SUMMER SESSION	7
CAD 111 * CAD Drafting Applications	4
CAD 170 Introduction to Solidworks	3
FIRST SEMESTER	3
CAD 270 **# Solidworks II	3
SECOND SEMESTER	3
CAD 211 ***# Geometric Dimension and Tolerancing	3
Total Hours for Certificate	13

* Summer only
** Fall only
*** Spring only
Prerequisite required

**CAD DRAFTING TECHNOLOGY -
AUTODESK INVENTOR
(Certificate) Plan 24DU**

SUMMER SESSION	4
CAD 111 * CAD Drafting Applications	4
FIRST SEMESTER	3
CAD 171 Introduction to Inventor	3
SECOND SEMESTER	3
CAD 211 ***# Geometric Dimension and Tolerancing	3
THIRD SEMESTER	3
CAD 271 **# Inventor II	3
Total Hours for Certificate	13

* Summer only
** Fall only
*** Spring only
Prerequisite required

For more information on recommended courses or program specific advising, contact the Engineering, Math and Physical Sciences division at (847) 543-2044.