

CAD-DRAFTING TECHNOLOGY A.A.S. DEGREES

3

3

www.clcillinois.edu/programs/cad

A.A.S. PROGRAM OVERVIEW

Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044

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.

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 a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

CAD Drafting Applications

SUMMER

CAD 111 *

MTT 112

CAD 176

SUMMER

J	5, 15 5, a.m. 6, 15 p. 10 a.m.	
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 or	
CMM 121	Fundamentals of Speech <i>or</i>	
CMM 122	Business and Professional	
	Speaking or	
CMM 123	Dynamics of Small Group	
	Discussion <i>or</i>	
CMM 128	Interviewing Practices	3
SECOND SEMESTER 18		18
ENG 120	Technical Composition I or	
ENG 121	English Composition I	3
MTH 115	Applied Mathematics II	3
CAD 171	Introduction to Inventor	3

Machining Principals

Introduction to Creo

CAD 211 ***# Geometric Dimension and Tolerancing

and Drafting

MET 214 *# Mechanical Design

THIRD SEMESTER 12		
ECO 110	Economics for Business	
	and Industry or	
ECO 221	Principles of Macroeconomic	s or
PSC 122	State and Local Politics <i>or</i>	
	Social Sciences Elective	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		

TECHNICAL ELECTIVES:

ART 263

ART 264

4

4

3

3

3

3

3

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

2D Computer Animation

3D Computer Animation

AN1 204	3D Compatci Ammation	5
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 of Autodesk	
	3ds Max	3
CAD 211 ***#	Geometric Dimension and	
	Tolerancing	3
CAD 217 ***#	: AutoCAD II	3
CAD 270 **#		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
ELT 111	Electronic Drafting	2
EWE 120	Job Readiness Skills	1
EWE 220	Cooperative Work	
	Experience I	2
LPO 111	Fundamentals of Light	4
	and Lasers	4
LPO 145	and Lasers Photonic CAD Applications	-
LPO 145 MET 111	Photonic CAD Applications	3
MET 111	Photonic CAD Applications Manufacturing Processes	3
MET 111 MET 112	Photonic CAD Applications Manufacturing Processes Basic Metallurgy I	3
MET 111	Photonic CAD Applications Manufacturing Processes Basic Metallurgy I Mechanical Design	3 3 3
MET 111 MET 112 MET 214 #	Photonic CAD Applications Manufacturing Processes Basic Metallurgy I Mechanical Design and Drafting	3 3 3
MET 111 MET 112 MET 214 # MTH 115	Photonic CAD Applications Manufacturing Processes Basic Metallurgy I Mechanical Design and Drafting Applied Mathematics II	3 3 3 3
MET 111 MET 112 MET 214 #	Photonic CAD Applications Manufacturing Processes Basic Metallurgy I Mechanical Design and Drafting	3 3 3

TYPICAL JOBS

- Architectural Drafter
- Engineering Technician
- Civil Designer
- Civil Drafter
- Mechanical Designer
- Mechanical Drafter
- Product Designer/Drafter

GETTING STARTED

For steps on how to apply and register, visit www.clcillinois.edu/admission.

^{*} Summer only

^{**} Fall only

^{***} Spring only

[#] Prerequisite required



CAD-DRAFTING TECHNOLOGY A.A.S. DEGREES

Grayslake · Vernon Hills · Waukegan · Online

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 a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

SUMMER SESSION CAD 111 * CAD Drafting Application

FIRST SEMESTER

FIRST SEMESTER 18		
ART 124	Drawing I <i>or</i>	
	Humanities or Fine Arts Elective	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 <i>or</i>	
CMM 121	Fundamentals of Speech <i>or</i>	
CMM 122	Business/Professional	
	Speaking or	
CMM 123	Dynamics/Small Group Discuss	or
CMM 128	Interviewing Practices	3
SECOND SEN	ΛESTER	15
CAD 171	Introduction to Inventor	3
CAD 178	Introduction to Revit	3
CAD 279 ***	Design Visualization Using	
	3Ds Max Design <i>or</i>	
	Technical Elective or	
EWE 120	Job Readiness Skills and	
EWE 220	Cooperative Work	
	Experience I	3
ENG 120	Technical Composition I or	
ENG 121	English Composition I	3
MTH 115	Applied Mathematics II	3
THIRD SEME		12
ART 222	Computer Art I	3
ART 263 #	2D Computer Animation	3
CAD 179	Introduction to Autodesk	
	3Ds Max	3
CAD 273	Advanced CAD Specialization o	
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	3
	Social Science Elective	3
Total Hours for A.A.S. Degree 6		

TECHNICAL ELECTIVES:

10

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
ELT 111	Electronic Drafting	2
EWE 120	Job Readiness Skills	1
EWE 220	Cooperative Work	2
100 111	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		

^{**} Fall only

Prerequisite required

CONTACT INFO

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> May 2020 Per 2020-21 catalog

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^{***} Spring only