

Construction Management & Civil Engineering Technology

CMCE 1110 Construction Drawing I AutoCAD Shortcuts

1. Manage Drawings					
Ctrl+N	New Drawing				2
Ctrl+S	Save drawing				
Ctrl+O	Open drawing				Ti di
Ctrl+P	Plot dialog box				
Ctrl+Tab/Ctrl+Shift+Tab	Switch to next / s	witch to	oreviou	s drawing	
Ctrl+Page Up/Page Down	Switch to next tal	b / switch	to prev	vious tab in current drawing	g
Ctrl+Q	Exit				
Ctrl+A	Select all objects	3			
2. Toggle Drawing Modes	3.	3. M	anage :	Screen	
F3 Toggles object snap mode		Ctrl-	0 (zero	o) Clean Screen	
F7 Toggle grid mode		Ctrl-	-1	Property Palette	3
F8 Toggle ortho mode		Ctrl-	-2	Design Center Palette	
F9 Toggle snap mode		Ctrl-	-3	Tool Palette	
F10 Toggle polar mode		Ctrl-	4	Sheet Set Palette	
F11 Toggle object snap tracking		Ctrl-	-6	DBConnect Manager	
F12 Toggle dynamic input mode		Ctrl-	7	Markup Set Manager	
4. Manage Workflow			Name of Street, Street	Palette	
Ctrl+C Copy object	pt .	Ctrl-		Quick Calc	
Ctrl+X Cut object		Ctrl+	EI	Command Line	
Ctrl+V Paste object		5. 10	iggie G	eneral Features	-
Ctrl+Shift+C Copy to clip	oboard with base	Ctrl+	D	Toggle coordinate display	
Ctrl+Shift+V Paste data	as block	Ctrl+	G	Toggle Grid	и
Ctrl+Z Undo last a	action	Ctrl+	E	Cycle isometric planes	
Ctrl+Y Redo last action		Ctrl+	F	Toggle running object	
	rent command (or			snaps	
ctrl+\)		Ctrl+	<u></u>	Toggle Pick Style	
r (4)		- promotes and a constant	press.	Toggle Hide pallets	
		Ctrl+	L	Toggle Coords	
,		Ctrl+	Shift+I	Toggle Infer Constraints	

6. Command Shortcuts	
	3D Command Shortcuts
3A	3DARRAY / Creates a 3D matrix of objects in a rectangular or polar arrangement.
3D0	3DORBIT/ Rotates the view in 3D space, but constrained to horizontal and vertical orbit only.
3DW	3DWALK/ Changes the 3D view in a drawing interactively to create the appearance of walking through the model.
3F	3DFACE/ Creates a three-sided or four-sided surface in 3D space.
3M	3DMOVE/ In a 3D view, displays the 3D Move gizmo to aid in moving 3D objects a specified distance in a specified direction.
3P	3DPOLY/ Creates a 3D polyline.
3R	3DROTATE/ In a 3D view, displays the 3D Rotate gizmo to aid in revolving 3D objects around a base point.
38	3DSCALE/ In a 3D view, displays the 3D Scale gizmo to aid in resizing 3D objects.
	A Command Shortcuts
A	ARC / Creates an arc.
ADC	ADCENTER / Manages and inserts content such as blocks, xrefs, and hatch patterns.
AA	AREA / Calculates the area and perimeter of objects or of defined areas.
AL	ALIGN / Aligns objects with other objects in 2D and 3D
AP	APPLOAD / Load Application
AR	ARRAY / Creates multiple copies of objects in a pattern.
ARR	ACTRECORD / Starts the Action Recorder.
ARM	ACTUSERMESSAGE / Inserts a user message into an action macro.
ARU	ACTUSERINPUT / Pauses for user input in an action macro.
ARS	ACTSTOP / Stops the Action Recorder and provides the option of saving the recorded actions to an action macro file.
ATI	ATTIPEDIT / Changes the textual content of an attribute within a block.
ATT	ATTDEF / Redefines a block and updates associated attributes.
ATE	ATTEDIT / Changes attribute information in a block.
	B Command Shortcuts
В	BLOCK / Creates a block definition from selected objects.
BC	BCLOSE / Closes the Block Editor.
BE	BEDIT / Opens the block definition in the Block Editor.
ВН	HATCH / Fills an enclosed area or selected objects with a hatch pattern, solid fill, or gradient fill.
ВО	BOUNDARY / Creates a region or a polyline from an enclosed area.
BR	BREAK / Breaks the selected object between two points.
BS	BSAVE / Saves the current block definition.
BVS	BVSTATE / Creates, sets, or deletes a visibility state in a dynamic block.

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	C Command Shortcuts
C	CIRCLE / Creates a circle.
CAM	CAMERA / Sets a camera and target location to create and save a 3D
	perspective view of objects.
CBAR	CONSTRAINTBAR / A toolbar-like UI element that displays the available geometric constraints on an object.
СН	PROPERTIES / Controls properties of existing objects.
CHA	CHAMFER / Bevels the edges of objects.
CHA	CHECKSTANDARDS / Checks the current drawing for standards
CHK	violations.
CLI	COMMANDLINE / Displays the Command Line window.
COL	COLOR / Sets the color for new objects.
CO	COPY / Copies objects a specified distance in a specified direction.
CT	CTABLESTYLE / Sets the name of the current table style
	NAVVCUBE / Controls the visibility and display properties of the
CUBE	ViewCube tool.
CYL	CYLINDER / Creates a 3D solid cylinder.
	D Command Shortcuts
D	DIMSTYLE / Creates and modifies dimension styles.
DAN	DIMANGULAR / Creates an angular dimension.
DAR	DIMARC / Creates an arc length dimension.
JOG	DIMJOGGED / Creates jogged dimensions for circles and arcs.
	DIMBASELINE / Creates a linear, angular, or ordinate dimension from
DBA	the baseline of the previous or selected dimension.
DBC	DBCONNECT / Provides an interface to external database tables.
	DIMCENTER / Creates the center mark or the centerlines of circles
DCE	and arcs.
DCO	DIMCONTINUE / Creates a dimension that starts from an extension
500	line of a previously created dimension.
DCON	DIMCONSTRAINT / Applies dimensional constraints to selected
	objects or points on objects.
DDA	DIMDISASSOCIATE / Removes associativity from selected dimensions.
DDI	DIMDIAMETER / Creates a diameter dimension for a circle or an arc.
DED	DIMEDIT / Edits dimension text and extension lines.
DI	
	DIST / Measures the distance and angle between two points. DIVIDE / Creates evenly spaced point objects or blocks along the
DIV	length or perimeter of an object.
DII	DIMJOGLINE / Adds or removes a jog line on a linear or aligned
DJL	dimension.
DJO	DIMJOGGED / Creates jogged dimensions for circles and arcs.
DL	DATALINK / The Data Link dialog box is displayed.
DLU	DATALINKUPDATE / Updates data to or from an established external
	data link.

DO	DONI IT / Creates a filled sizele or a wide ring
processors and a second	DONUT / Creates a filled circle or a wide ring.
DOR	DIMORDINATE / Creates ordinate dimensions.
DOV	DIMOVERRIDE / Controls overrides of system variables used in selected dimensions.
DR	DRAWORDER / Changes the draw order of images and other objects.
DRA	DIMRADIUS / Creates a radius dimension for a circle or an arc.
DRE	DIMREASSOCIATE / Associates or re-associates selected dimensions
	to objects or points on objects.
DRM	DRAWINGRECOVERY / Displays a list of drawing files that can be recovered after a program or system failure.
DC	DSETTINGS / Sets grid and snap, polar and object snap tracking,
DS	object snap modes, Dynamic Input, and Quick Properties.
DT	TEXT / Creates a single-line text object.
DV	DVIEW / Defines parallel projection or perspective views by using a camera and target.
DX	DATAEXTRACTION / Extracts drawing data and merges data from an
DA.	external source to a data extraction table or external file
	E-G Command Shortcuts
E	ERASE / Removes objects from a drawing.
ED	DDEDIT / Edits single-line text, dimension text, attribute definitions,
	and feature control frames.
EL	ELLIPSE / Creates an ellipse or an elliptical arc.
ER	EXTERNALREFERENCES / Opens the External References palette.
EX	EXTEND / Extends objects to meet the edges of other objects.
EXIT	QUIT / Exits the program.
EXP	EXPORT / Saves the objects in a drawing to a different file format.
EXT	EXTRUDE / Extends the dimensions of a 2D object or 3D face into 3D space.
E	FILLET / Rounds and fillets the edges of objects.
FI	FILTER / Creates a list of requirements that an object must meet to be
	included in a selection set.
FSHOT	FLATSHOT / Creates a 2D representation of all 3D objects based on the current view.
G	GROUP / Creates and manages saved sets of objects called groups.
GCON	GEOCONSTRAINT / Applies or persists geometric relationships
	between objects or points on objects.
GD	GRADIENT / Fills an enclosed area or selected objects with a gradient fill.
GEO	GEOGRAPHICLOCATION / Specifies the geographic location
	information for a drawing file.
	H-L Command Shortcuts
Н	HATCH / Fills an enclosed area or selected objects with a hatch
HE	pattern, solid fill, or gradient fill.
HI	HATCHEDIT / Modifies an existing hatch or fill.
ji ii	HIDE / Regenerates a 3D wireframe model with hidden lines

	suppressed.
0	INSERT / Inserts a block or drawing into the current drawing.
IAD	IMAGEADJUST / Controls the image display of the brightness,
	contrast, and fade values of images.
IAT	IMAGEATTACH / Inserts a reference to an image file.
ICL	IMAGECLIP / Crops the display of a selected image to a specified
IM	boundary.
	IMAGE / Displays the External References palette.
IMP	IMPORT / Imports files of different formats into the current drawing.
IN	INTERSECT / Creates a 3D solid, surface, or 2D region from overlapping solids, surfaces, or regions.
F	INTERFERE / Creates a temporary 3D solid from the interferences
INF	between two sets of selected 3D solids.
IO	INSERTOBJ / Inserts a linked or embedded object.
J	JOIN / Joins similar objects to form a single, unbroken object.
	LINE / Creates straight line segments.
IO J L LA LAS	LAYER / Manages layers and layer properties.
LAS	LAYERSTATE / Saves, restores, and manages named layer states.
LE	QLEADER / Creates a leader and leader annotation.
	LENGTHEN / Changes the length of objects and the included angle of
LEN	arcs.
LESS	MESHSMOOTHLESS / Decreases the level of smoothness for mesh
	objects by one level.
LI	LIST / Displays property data for selected objects.
LO	LAYOUT / Creates and modifies drawing layout tabs.
LT	LINETYPE / Loads, sets, and modifies linetypes.
LTS	LTSCALE / Changes the scale factor of linetypes for all objects in a
	drawing.
LW	LWEIGHT / Sets the current lineweight, lineweight display options, and lineweight units.
	M-O Command Shortcuts
M	MOVE / Moves objects a specified distance in a specified direction.
	MATCHPROP / Applies the properties of a selected object to other
MA	objects.
MAT	MATERIALS / Shows or hides the Materials window.
ME	MEASURE / Creates point objects or blocks at measured intervals
IVIL	along the length or perimeter of an object.
MEA	MEASUREREGION / Measures the distance, radius, angle, area, and
	volume of selected objects or sequence of points.
MI	MIRROR / Creates a mirrored copy of selected objects.
ML	MLNE / Creates multiple parallel lines.
MLA	MLEADERALIGN / Aligns and spaces selected multileader objects.

MLEADERCOLLECT / Organizes selected multileaders that contain MLC blocks into rows or columns, and displays the result with a single leader. MLD MLEADER / Creates a multileader object. MLEADEREDIT / Adds leader lines to, or removes leader lines from, a MLE multileader object. MLS MLEADERSTYLE / Creates and modifies multileader styles. MO PROPERTIES / Controls properties of existing objects. MESHSMOOTHMORE / Increases the level of smoothness for mesh MORE objects by one level. MS MSPACE / Switches from paper space to a model space viewport. MSM MARKUP / Opens the Markup Set Manager. MT MTEXT / Creates a multiline text object. MV MVIEW / Creates and controls layout viewports. GEOGRAPHICLOCATION / Specifies the geographic location NORTH information for a drawing file. NEWSHOT / Creates a named view with motion that is played back **NSHOT** when viewed with ShowMotion. **NVIEW** NEWVIEW / Creates a named view with no motion. 0 OFFSET / Creates concentric circles, parallel lines, and parallel curves. OP OPTIONS / Customizes the program settings. 3DORBIT / Rotates the view in 3D space, but constrained to horizontal **ORBIT** and vertical orbit only. OS OSNAP / Sets running object snap modes. P Command Shortcuts P PAN / Adds a parameter with grips to a dynamic block definition. PASTESPEC / Pastes objects from the Clipboard into the current PA drawing and controls the format of the data. PARAMETERS / Controls the associative parameters used in the PAR drawing. BPARAMETER / Adds a parameter with grips to a dynamic block PARAM definition. **PATCH** SURFPATCH / PC POINTCLOUD / **PCATTACH** POINTCLOUDATTACH / **PCINDEX** POINTCLOUDINDEX / PE PEDIT / Edits polylines and 3D polygon meshes. PL PLINE / Creates a 2D polyline. PO POINT / Creates a point object. HIDEPALETTES / Hides currently displayed palettes (including the POFF command line). POL POLYGON / Creates an equilateral closed polyline. PON SHOWPALETTES / Restores the display of hidden palettes. PRE PREVIEW / Displays the drawing as it will be plotted.

PRINT	DI OT / Dieta a descript to a solution of the
PS	PLOT / Plots a drawing to a plotter, printer, or file.
PSOLID	PSPACE / Switches from a model space viewport to paper space.
	POLYSOLID / Creates a 3D wall-like polysolid.
PTW	PUBLISHTOWEB / Creates HTML pages that include images of selected drawings.
PU	PURGE / Removes unused items, such as block definitions and layers, from the drawing.
PYR	PYRAMID / Creates a 3D solid pyramid.
	Q-R Command Shortcuts
QC	QUICKCALC / Opens the QuickCalc calculator.
QCUI	QUICKCUI / Displays the Customize User Interface Editor in a
QCOI	collapsed state.
QP	QUICKPROPERTIES / Displays open drawings and layouts in a
	drawing in preview images.
QVD	QVDRAWING / QVLAYOUTCLOSE
QVDC	QVDRAWINGCLOSE / Closes preview images of open drawings and layouts in a drawing.
QVL	QVLAYOUT / Displays preview images of model space and layouts in a drawing.
R	REDRAW / Refreshes the display in the current viewport.
RA	REDRAWALL / Refreshes the display in all viewports.
	RENDERCROP / Renders a specified rectangular area, called a crop
RC	window, within a viewport.
RE	REGEN / Regenerates the entire drawing from the current viewport.
REA	REGENALL / Regenerates the drawing and refreshes all viewports.
REC	RECTANG / Creates a rectangular polyline.
REG	REGION / Converts an object that encloses an area into a region object.
REN	RENAME / Changes the names assigned to items such as layers and dimension styles.
DEV	REVOLVE / Creates a 3D solid or surface by sweeping a 2D object
REV	around an axis.
RO	ROTATE / Rotates objects around a base point.
RP	RENDERPRESETS / Specifies render presets, reusable rendering
	parameters, for rendering an image.
RPR	RPREF / Displays or hides the Advanced Render Settings palette for
	access to advanced rendering settings.
RR	RENDER / Creates a photorealistic or realistically shaded image of a 3D solid or surface model.
DVA	RENDERWIN / Displays the Render window without starting a
RW	rendering operation.
	S Command Shortcuts
S	STRETCH / Stretches objects crossed by a selection window or
	polygon.
SC	SCALE / Enlarges or reduces selected objects, keeping the proportions

-	of the object the same after scaling.
SCR	SCRIPT / Executes a sequence of commands from a script file.
SEC	SECTION / Uses the intersection of a plane and solids, surfaces, or mesh to create a region.
SET	SETVAR / Lists or changes the values of system variables.
SHA	SHADEMODE / Starts the VSCURRENT command.
SL	SLICE / Creates new 3D solids and surfaces by slicing, or dividing, existing objects.
SN	SNAP / Restricts cursor movement to specified intervals.
SO	SOLID / Creates solid-filled triangles and quadrilaterals.
SP	SPELL / Checks spelling in a drawing.
SPL	SPLINE / Creates a smooth curve that passes through or near specified points.
SPLANE	SECTIONPLANE / Creates a section object that acts as a cutting plane through 3D objects.
SPLAY	SEQUENCEPALY /
SPLIT	MESHSPLIT / Splits a mesh face into two faces.
SPE	SPLINEDIT / Edits a spline or spline-fit polyline.
SSM	SHEETSET / Opens the Sheet Set Manager.
ST	STYLE / Creates, modifies, or specifies text styles.
STA	STANDARDS / Manages the association of standards files with
	drawings.
SU	SUBTRACT / Combines selected 3D solids, surfaces, or 2D regions by subtraction.
	T Command Shortcuts
	MTEXT / Creates a multiline text object.
TA	TABLET / Calibrates, configures, and turns on and off an attached digitizing tablet.
ТВ	TABLE / Creates an empty table object.
TEDIT	TEXTEDIT / Edits a dimensional constraint, dimension, or text object.
TH	THICKNESS /
TI	TILEMODE /
ТО	TOOLBAR / Displays, hides, and customizes toolbars.
TOL	TOLERANCE /
TOR	TORUS / Creates a donut-shaped 3D solid.
TP	TOOLPALETTES / Opens the Tool Palettes window.
TR TS	TRIM / Trims objects to meet the edges of other objects.
TS	TABLESTYLE / Creates, modifies, or specifies table styles.
	U-Z Command Shortcuts
UC	UCSMAN / Manages defined user coordinate systems.
UN	UNITS / Controls coordinate and angle display formats and precision.
UNHIDE	UNISOLATEOBJECTS /
UNISOLATE	UNISOLATEOBJECT /

	EW / Saves and restores named views, camera views, layout views, d preset views.
	EWGO / Restores a named view.
VP DD	VPOINT / Sets the 3D viewing direction.
VPLAY	EWPLAY / Plays the animation associated to a named view.
VS	CURRENT / Sets the visual style in the current viewport.
vis	SUALSTYLES / Creates and modifies visual styles and applies a ual style to a viewport.
W	BLOCK / Writes objects or a block to a new drawing file.
WE	EDGE / Creates a 3D solid wedge.
nav	VSWHEEL / Displays a wheel that contains a collection of view vigation tools.
X EX XA	PLODE / Breaks a compound object into its component objects.
XA	TTACH / Inserts a DWG file as an external reference (xref).
	IND / Binds one or more definitions of named objects in an xref to current drawing.
refe	LIP / Crops the display of a selected external reference or block erence to a specified boundary.
XL XL XL XR	INE / Creates a line of infinite length.
XR XR	EF / Starts the EXTERNALREFERENCES command.
	OM / Increases or decreases the magnification of the view in the
	rent viewport. ALYSISZEBRA
AIV	