

**ENGINEERING & DRAFTING TECHNOLOGY CAREER & TECHNICAL EDUCATION CURRICULUM SCOPE & SEQUENCE**

**YEAR 1 TOTAL HOURS = 402 Days - 180**

<b>Curriculum Section &amp; Code</b>	<b>Unit Name</b>	<b>Days</b>	<b>Hours</b>	<b>POS Task Grid</b>
I. Safety				
	Safety in Drafting Room	1	2	101
	Safety in the Workplace	1	2	102
II. Introduction to Drafting & Design				
	Careers	3	7	
	Technical Sketching	5	11	203, 204, 507
	Equipment	2	4	201
	Drafting Technique	6	14	204, 205, 501
	Lettering	4	9	206, 508
III. Computer Assisted Drafting (CAD)				
	CAD Fundamentals	4	9	1201, 1202, 1203, 1204, 1214, 1216
	Basic Object Construction and Dynamic Input	5	11	204, 206, 301, 1201, 1202, 1203, 1204, 1214, 1216
	CAD Geometric Construction and Editing Tools	5	11	204, 206, 301, 302, 303, 1201, 1202, 1203, 1204, 1214, 1216
IV. Geometric Construction				
	Geometric Construction	4	9	302, 303
	Geometric Drawings	13	29	301, 302, 303
V. Introduction to Engineering Math				
	Engineering Design	15	34	203, 204, 507, 508, 601, 602, 605,
VI. Freehand Drawing and Sketching				
	Multiview Drawings I	14	31	502, 503
VII. Introduction to Mechanical Drawing and Design				
	Multiview Drawings II	19	42	603, 604, 701, 702, 703, 708
	Sectional Views	20	44	701, 705
	Auxiliary Views	9	21	701, 704
	Working Drawings	9	21	701, 707, 708
VIII. Dimensioning				
	Dimensioning and Notes	21	47	708, 801, 802, 803
IX. Introduction to Architecture				
	Architectural Drafting	20	45	507, 708, 902, 903, 905

**YEAR 2 TOTAL HOURS = 402**

<b>Curriculum Section &amp; Code</b>	<b>Unit Name</b>	<b>Days</b>	<b>Hours</b>	<b>POS Task Grid</b>
I. Safety				
	Safety in Drafting Room	1	2	101
	Safety in the Workplace	1	2	102
II. Introduction to Drafting & Design				
	Car	3	7	
	Technical Sketching	5	11	203, 204, 507
	Equipment	2	4	201
	Drafting Technique	6	14	204, 205, 501
	Lettering	4	9	206, 508
III. Computer Assisted Drafting (CAD)				
	CAD Fundamentals	4	9	1201, 1202, 1203, 1204, 1214, 1216
	Basic Object Construction and Dynamic Input	5	11	204, 206, 301, 1201, 1202, 1203, 1204, 1214, 1216
	CAD Geometric Construction and Editing Tools	5	11	204, 206, 301, 302, 303, 1201, 1202, 1203, 1204, 1214, 1216
IV. Geometric Construction				
	Geometric Construction	4	9	302, 303
	Geometric Drawings	13	29	301, 302, 303
V. Introduction to Engineering Math				
	Engineering Design	15	33	203, 204, 507, 508, 601, 602, 605,
	Rapid Prototyping	3	7	
VI. Freehand Drawing and Sketching				
	Multiview Drawings I	14	31	502, 503
VII. Introduction to Mechanical Drawing and Design				
	Multiview Drawings II	18	40	603, 604, 701, 702, 703, 708
	Sectional Views	20	44	701, 705
	Auxiliary Views	9	21	701, 704
	Working Drawings	9	21	701, 707, 708, 1207, 1213
VIII. Dimensioning				
	Dimensioning and Notes	21	47	708, 801, 802, 803
IX. Introduction to Architecture				

	Architectural Drafting	13	29	507, 708, 902, 903, 904, 905, 1205, 1206
IX. Introduction to Civil Drafting				
	Site Plan Development	4	9	1001
	Deed Interpretation	1	2	1004
	Survey equipment	2	4	1005

**YEAR 3 TOTAL HOURS = 402**

<b>Curriculum Section &amp; Code</b>	<b>Unit Name</b>	<b>Days</b>	<b>Hours</b>	<b>POS Task Grid &amp; Certification</b>
I. Safety				
	Safety in Drafting Room	1	2	101
	Safety in the Workplace	1	2	102
II. Introduction to Drafting & Design				
	Careers	3	7	
	Technical Sketching	5	11	203, 204, 507
	Equipment	2	4	201
	Drafting Technique	6	14	204, 205, 501
	Lettering	4	9	206, 508
III. Computer Assisted Drafting (CAD)				
	CAD Fundamentals	4	9	1201, 1202, 1203, 1204, 1214, 1216
	Basic Object Construction and Dynamic Input	5	11	204, 206, 301, 1201, 1202, 1203, 1204, 1214, 1216
	CAD Geometric Construction and Editing Tools	5	11	204, 206, 301, 302, 303, 1201, 1202, 1203, 1204, 1214, 1216
IV. Geometric Construction				
	Geometric Construction	4	9	302, 303
	Geometric Drawings	13	29	301, 302, 303
V. Introduction to Engineering Math				
	Engineering Design	13	29	203, 204, 507, 508, 601, 602, 605,
	Rapid Prototyping	3	7	
VI. Freehand Drawing and Sketching				
	Multiview Drawings I	14	31	502, 503

VII. Introduction to Mechanical Drawing and Design				
	Multiview Drawings II	18	40	603, 604, 701, 702, 703, 708
	Sectional Views	20	44	701, 705
	Auxiliary Views	9	21	701, 704
	Working Drawings	9	21	701, 707, 708, 1207,1213
VIII. Dimensioning				
	Dimensioning and Notes	21	47	708, 801, 802, 803
IX. Introduction to Architecture				
	Architectural Drafting	13	29	507, 708, 902, 903, 904, 905, 1205, 1206
IX. Introduction to Electrical and Electronic Drafting				
	Electrical Symbols	2	4	1101
	Schematic Wiring Diagrams	5	11	1102
Independent Work-Based Learning	Independent Projects	180		All Tasks
	Co Operative Education	180		All Tasks