DRAFTING AND DESIGN TECHNOLOGY (DDT)

(Wallace and Sparks Campuses and Easterling Correctional Facility)

Credit Hours

6

ELT

ELT

INT

INT

114

115

118

134

Drafting and Design Technology encompasses many divergent fields of study, including Aerospace, Architectural, Civil, Electrical, Mechanical, Piping, Structural, and Technical Illustrating. All of these fields focus on the ability to communicate by using a graphic language. Graphic communication is the ability to translate ideas and rough sketches into finished drawings that can be used to manufacture or assemble the desired product. These drawings are produced with the aid of specialty drawing and measuring instruments and the use of special computer programs. Students in this program learn basic drafting techniques as well as advanced topics within the fields of Architectural and Mechanical Design. Computer-Aided Drafting and Design (CAD) is an essential part of this program and is explored in depth.

Students who complete the prescribed degree curriculum will earn an associate in applied science degree in Drafting and Design Technology in the chosen option. Students who complete the prescribed program certificate curriculum will earn a certificate in the chosen option. Admission is conditional and depends on the student's ability to perform the essential functions for this program. Reasonable accommodations are considered.

Written and Oral Communications

English Composition I

DEGREE CURRICULUM (Wallace and Sparks Campuses)

Course Area I:

ENG 101

ENG 101	English Composition I	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking	3
Area II:	Humanities and Fine Arts	3
	Humanities/Fine Arts Elective	3
Area III:	Natural Sciences, Mathematics, and	
	Computer Science	10
CIS 146	Microcomputer Applications	3
MTH 100	Intermediate College Algebra	3
PHS 112	Physical Science II OR	
CHM 111	College Chemistry I OR	
PHY 201	General Physics I OR	
PHY 213	General Physics I w/ Calculus	4
Area IV:	History, Social and Behavioral Sciences	3
	History/Behavioral Science/Social	
	Science Elective	3
Area V:	Career and Technical Courses	48
Required O	rientation Courses	
ORI 101	Orientation to College OR	
ORI 105	Orientation and Student Success	1-3
ORI 104	WorkKeys® Assessment and Advisement	1
Required Fi	ield of Concentration Courses	
DDT 104	Basic Computer-Aided Drafting	3
DDT 111	Fundamentals of Drafting and Design	
	Technology	3
DDT 117	Manufacturing Processes	3
DDT 124	Basic Technical Drawing	3

DDT 127	Intermediate Computer-Aided Drafting and	
	Design	3
DDT 128	Intermediate Technical Drawing	3
DDT 130	Fundamentals of Drafting for Related Trades	3
DDT 134	Descriptive Geometry	3
DDT 139	Fundamentals of Drafting for Related	
	Trades Lab	3
DDT 150	Theory of Residential Drawing and Design	3
DDT 155	Drawing for Residential Construction	4
	Total Drafting and Design Technology	
	Credits	34
	st 12 hours from the following elective courses:	
ACR 121	Principles of Electricity for HVAC/R	3
ACR 205	System Sizing and Air Distribution	3
ASE 101	Fundamentals of Automotive Technology	3
ASE 112	Electrical Fundamentals	3
CIS 251	C++ Programming Language	3
CIS 285	Object-Oriented Programming	3
DDT 122	Advanced Technical Drawing	3
DDT 212	Intermediate Architectural Drafting	3
DDT 216	Design of Structural Wood Members	3
DDT 222	Advanced Architectural Drafting	3
DDT 225	Structural Steel Drafting	3
DDT 231	Advanced CAD	3
DDT 235	Specialized CAD	3
DDT 236	Design Project	3
DDT 237	Current Topics in CAD	3

Drafting and Design Technology Associate in Applied Science Degree Suggested Course Sequence

Residential Wiring Methods I Residential Wiring Methods II

and Metal Cutting Techniques

Total Elective Credits

Total Credits for Degree

and Pneumatics

Fundamentals of Industrial Hydraulics

Principles of Industrial Maintenance Welding

3

3

3

3

15

73

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER
CIS 146	DDT 124*	DDT 150**
DDT 104	DDT 127	DDT 155**
DDT 111	DDT 128*	SPH 106 or 107
DDT 117*	ENG 101	Drafting and Design
ORI 101 or 105	MTH 100	Technology Elective*
ORI 104		
FOURTH SEMESTER	FIFTH SEMESTER	
DDT 130**	DDT 134	
DDT 139**	ENG 101	
Drafting and Design	ENG 130	
Technology Elective*	Drafting and Design	
Drafting and Design	Technology Elective*	
Technology Elective*	Humanities/Fine Arts Elec	tive
	History/Social and Behavio	oral
	Science Elective	

	ursework except DDT 117 and DDT 216 has a prerequisi		DDT 1	11	Fundan	nentals of Drafting and I	Design	
	DDT 111 except DDT 127 and DDT 232, which require	only	221 1		Technol	_	2 401811	3
DDT 104.		DDT 1	17	Manufacturing Process			3	
**DDT 150 and DDT 155 are co-requisites as well as DDT 130 and DDT 139.		DDT 1	22		ed Technical Drawing		3	
1		DDT 1	24	Basic T	echnical Drawing		3	
<u>Note</u> : Troy U Engineering (niversity Mechanical Engineering Students take DDT 10 Graphics.	4 for	DDT 1	27	Interme Design	ediate Computer-Aided	Drafting and	3
			DDT 1	28		ediate Technical Drawin	g	3
	CATE CURRICULUM		DDT 1	30		nentals of Drafting for R		3
(Wallace a	nd Sparks Campuses)		DDT 1	31		e Drafting Basics		3
	G . W. VI		DDT 1			tive Geometry		3
Course	Credit Ho		DDT 1	39	Fundan	nentals of Drafting for F	Related Trades	
Area I:	Written and Oral Communications	6			Lab			3
ENG 101 SPH 106	English Composition I Fundamentals of Oral Communication OR	3	DDT 1			of Residential Drawing		3
SPH 100	Fundamentals of Public Speaking	3	DDT 1			g for Residential Consti	ruction	4
5111 107	rundamentals of rubile Speaking	5	DDT 2		Design			3
Area III:	Natural Sciences, Mathematics, and		DDT 2	37		Topics in CAD	-ll	3
11100 1111	Computer Science	6				rafting and Design Te	cnnology	16
CIS 146	Microcomputer Applications	3			Credits		vrtificata	46 52
MTH 100	Intermediate College Algebra	3			Iotai C	credits for Program Ce	eruncate	52
Area V:	Career and Technical Courses	39			Draf	ting and Design Techn	ology	
-	Prientation Courses					Certificate		
ORI 101	Orientation to College OR	1 2			Su	ggested Course Sequer	ice	
ORI 105 ORI 104	Orientation and Student Success WorkKeys® Assessment and Advisement	1-3						
	ield of Concentration Courses	1	FIRST SI DDT 10	EME : 04	STER	SECOND SEMESTER COM 103	THIRD SEMES	TER
DDT 104	Basic Computer-Aided Drafting	3	DDT 11			DDT 124*	DDT 155**	
DDT 104	Fundamentals of Drafting and Design	J	DDT 11	17*		DDT 127	Drafting and Des	
DD1 III	Technology	3				DDT 128* MAH 101	Technology Elect	ive*
DDT 117	Manufacturing Process	3				MAH 101		
DDT 124	Basic Technical Drawing	3	FOURTH	I SEN	MESTER	FIFTH SEMESTER		
DDT 127	Intermediate Computer-Aided Drafting and		DDT 130** DDT 134					
	Design	3	DDT 13 Drafting a		Design	Drafting and Design Technology Elective*		
DDT 128	Intermediate Technical Drawing	3	= - 1/111/2 111111 = - 111/21 - 111111111					
DDT 130	Fundamentals of Drafting for Related Trades	3	Drafting o					
DDT 139	Fundamentals of Drafting for Related Trades		Technolog	зу Е е	ective*			
	Lab	3						
DDT 150	Theory of Residential Drawing and Design	3	*All DD7	Г сои	ırsework e.	xcept DDT 117 and DDT 2	216 has a prereaui	isite of
DDT 155	Drawing for Residential Construction	4				except DDT 127 and DDT		
DDT 236	Design Project	3	DDT 104.					
DDT 237	Current Topics in CAD	3	**DDT 1	50 an	d DDT 155	5 are co-requisites as well as	DDT 130 and DDT	139.
	Total Drafting and Design Technology	27						
	Credits Total Credits for Program Certificate	3751						
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	CATE CURRICULUM							
(Eastering	Correctional Facility)							
Course	Credit Ho	urs						
Area I:	Written and Oral Communications	3						
COM 103	Introductory Technical English	3						
Area III:	Natural Sciences, Mathematics, and							
1 A 1 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Computer Science	3						
MAH 101	Introductory Mathematics I	3						
Area V:	Career and Technical Courses							
_	ield of Concentration Courses	_						
DDT 104	Basic Computer-Aided Drafting	3						