

CIVIL ENGINEERING AND SURVEYING TECHNICIAN, AAS

Base Degree

Prerequisites and Course Availability per Term
(for complete information, see 2016-2017 UCC Catalogue)

REVISED 06/26/16

	Course No. and Course Name	Term Offered				Credits	Prerequisites/Notes	
		F	W	S	S			
Term 1	DRF 112 Computer Aided Drafting (CAD) I	x				3		
	ENGR 111 Engineering Orientation I	x				3	MTH 65 Elementary Algebra	
	GIS 203 The Digital Earth	x				4	MTH 65 Elementary Algebra	
	WR 121 English Composition, Intro to Argument	x	x	x	x	4		
								14
Term 2	DRF 113 Computer Aided Drafting (CAD) II		x			3	DRF 112 CAD I	
	GIS 234 Intro to Geographic Information Systems (GIS)		x			4		
	ENGR 112 Problem Solving & Technology		x			3	ENGR 112 Engineering Orientation I	
	MTH 111 Algebra	x	x	x	x	5	MTH 95 Pre-Algebra	
	UCC Approved Human Relations Elective	x	x	x	x	3		18
Term 3	CIV 214 CAD - Civil 3D			x		3	DRF 113 CAD I	
	GIS 235 GIS Data Integration			x		4	GIS 234	
	ENGR 245 Engineering Graphics			x		3	DRF 112 CAD I	
	MTH 112 Elementary Functions	x	x	x	x	4	MTH 111 Algebra	
	SUR 161 Surveying I			x		4	MTH 95 Pre-Algebra	18 50
Summer	CIV, GIS or WQT 280* Cooperative Work Experience	x	x	x	x	3		
								3
Term 4	ENGR 211 Statics	x				4	MTH 112	
	*** Approved Program Elective 1	x				4	See advisor	
	MTH 251 Calculus I	x				5	MTH 112	
	WR 227 Technical Report Writing	x	x	x	x	4	WR 121	
								17
Term 5	*** Approved Program Elective 2		x			4	Range: 4 to 6 credits. See advisor	
	MTH 252 Calculus II					4	MTH 251	
	ENGR 212 Dynamics					4	ENGR 211	
	CWE 161 CWE Seminar I	x	x	x		1		13
	ENGR 213 Strength of Materials			x		4	ENGR 211	
	SOIL 205** Soils Science			x		3	MTH 95	
	SOIL 206** Soils Science Lab			x		1	MTH 95	
	*** Approved Program Elective 3			x		3	See advisor	
SP 111 Fundamentals of Public Speaking	x	x	x		4	WR 095	15	
TOTAL AAS DEGREE CREDITS						98	Range 98 to 100	48 98

* WLD 131 Basic Metallurgy and WLD 140 Blue Print Reading and Sketching can be substituted for CWE 280

** Counts at OSU as Biological Science with lab

*** See Following Page for Program Electives

PROGRAM ELECTIVES

Program Elective 1

Sur 162 Plane Surveying II or 4 cr
WQT 261 Water Distribution 4 cr

Program Elective 2

Sur 163 Plane Surveying III or 4 cr
WQT 227 Wastewater Collection and 3 cr
WQT 228 Wastewater Treatment 3 cr

Program Elective 3

Sur 242 Land Descriptions & Cadastre or 3 cr
WQT 260 Water Treatment 3 cr