



AS Surveying & Geomatics
2022-2023

Faculty Advisor:

Engineering Transfer
93 credits

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Date of update: 07.21.2022

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SUMMARY

The Surveying & Geomatics, Associate of Science (AS) degree is a transfer program that prepares students for transfer to the bachelor’s degree program in Geomatics at Oregon Tech (OT), after two-years of college at UCC. The AS degree is a completion degree and can provide a direct pathway to employment for students that decide to defer pursuing a 4-year degree.

This is a rigorous program with a foundation of high-level mathematics and science, and advanced technologies. The Surveying & Geomatics, AS degree includes 3 quarters of 200- level calculus and 3 quarters of 200-level calculus-based physics, and 3 quarters of writing. In order to complete the Surveying, AS degree in two years, the student must begin their first fall term at college taking MTH112. Although it is possible to complete the Surveying & Geomatics, AS degree in two (2) years, the recommendation is that students plan on three (3) years to complete the degree and be ready for transfer.

UCC also has an Engineering Technology track that includes a two-year, Applied Associate of Science (AAS) degree with focus on being job ready in two years. Engineering technicians have some of the highest beginning salaries of graduates from two-year, AAS programs. For students that are interested in the surveying field but with less math and science courses this is an option to consider.

FIRST TERM GUIDE

Surveying & Geomatics, AS

The first term guide at UCC is especially important. The courses you take during the first quarter at UCC will impact the amount of time required to complete your degree. Assuming your first term is fall quarter, you will be assigned an Academic Advisor and develop a Student Academic Plan (term x term planner) during fall quarter, after you begin classes. The Student Academic plan is entered into a UCC program called “Degree Works” during fall term. The Degree Works software allows the student to track progress towards graduation and to complete “what if” scenarios for plan adjustments.

A key core-course for the first term is ENGR111. One of the assignments in ENGR111 is to meet with Faculty Advisor and Academic Advisor to review the Academic Plan entered into Degree Works and to plan for second term (winter quarter) classes. As noted previously, although it is possible to complete the Engineering, AS degree in two (2) years, the recommendation is that students plan on three (3) years to complete the Surveying & Geomatics, AS degree. Students will require three years to complete the AS degree if student: 1) does not begin fall quarter with MTH112, 2) is working part-time while attending school, or 3) is student athlete. Core program courses are generally in sequential order, and assume start in fall quarter. If your first term at UCC is not a fall quarter start, it is recommended that you meet with the Faculty Advisor and Academic Advisor, and develop the Academic Plan prior to beginning the first term.

		2 or 3-Year Plan							
First Term Plan	Course Number	Cr							
Term 1(2)	ENGR111	3							
	DRF112	3							
	GIS203	3							
	Math (1), (3)	5							
	Writing (1)	4							
		18							
(1) Math and writing course depend on placement testing									
Students not beginning first all quarter in MTH112 and WR121 should plan on 3-years to complete AS									
(2) Students beginning other than fall quarter should meet with Faculty Advisor and Academic Advisor to develop an Academic Planner in Degree Works prior to beginning first term									
(3) Students that completed MTH112 or MTH251 as dual credit see Advisor for course substitution									

AS Degree Requirements and Program Electives

Note:

- 90 credits are required to complete an AS degree but additional credits will be required to transfer with junior level status at university
- Program electives are specific to both transfer university specific and branch of engineering. Meet with faculty advisor and Academic advisor during first term to develop Academic plan and enter into Degree Works
- Program Prerequisites: See requirements needed for first term classes.

Possible Term Plan	Course Number	Course Title	Credits	Terms	Prerequisites/Notes
Term 1	ENGR 111	Engineering Orientation I	3	F	MTH 65 Elementary Algebra
	DRF 112	Computer Aided Drafting I	3	F	None
	GIS 203	Digital World and Geospacial Concepts	4	F	MTH 65 Elementary Algebra
	MTH112	Elementary Functions	4	F,W,S	MTH 112
	WR121	English Composition: Intro to Argument	4	F,W, S, Su	Prerequisite: WR115 and RD090 or appropriate placement test scores or placement by multiple measures; and basic computer word processing skills

Term 2	GIS 234	GIS I Intro to Geographic Information Systems	4	W	None
	MTH251	Calculus I	4	F, W	MTH 112
	Choose	**Arts & Letters Elective	3	F,W, S, Su	See Advisor
	WR122	Argument, Research, and Multimodal Composition	4	F,W, S, Su	Prerequisite: WR121

Term 3	CIV 214	Computer Aided Drafting- Civil 3D Virtual Design	3	S	DRF 112 CAD I
	MTH252	Calculus I	4	W,S	MTH 251
	GIS235	GIS II Data Analysis and Applications	4	S	GIS 234
	SUR 161	Surveying I	4	S	Co-req MTH 112

Term 4	PH211	General Physics w/Calculus	5	F	Corequisite: MTH 252
	SUR 162	Surveying II	4	F	SUR 161
	MTH254	Vector Calculus	4	F	MTH 252
	Choose	**Social Science Elective	3	F,W, S, Su	See Advisor

Term 5	PH212	General Physics w/ Calculus	5	W	PH211
	SUR 163	Route Surveying	4	W	SUR 162
	MTH265	Statistics for Engineers	4	W	See Advisor & Approved List Below.

AS Degree Requirements and Program Electives (continued)

Term 6	WR227	Technical Report Writing	4	F,W,S,Su	WR 121
	SUR 242	Land Descriptions & Cadastre	3	S	SUR 161
	PH213	General Physics w/ Calculus	5	S	PH211
	SP 111	Fundamentals of Public Speaking	4	F,W,S	None

Advising Notes	OT General Ed requirements allow up to 9 cr of Humanities electives and 12 cr of Social Science electives, see articulation agreement
	There are more hours and more electives than required for graduation, depending on career and educational goals.

Required/ Recommended Equipment and Software	Laptop with minimum capacity of: 3.3 GHz quad core CPU, 16 GB Ram, and quality graphics card. Considered a "gaming" computer