



This Four-Year Plan is meant to supplement your **Degree Audit**. You should work with your academic advisor on a regular basis for individual academic planning.

This Four-Year Plan represents a Comprehensive major which needs no minor. General Electives will be needed to reach the **120 credit hours needed for graduation**. Advanced courses (300-level or higher) should be chosen with Advisor counseling.

*PHIL 39-275, ECON 52-150, MATH 17-114 and CSIS 44-101 fulfill both a NW Core requirement and a major requirement, but the number of credit hours counts only once toward the total number of hours needed for graduation.

Milestone courses are courses which, if not taken in the appropriate semester, can delay graduation. Milestone courses are denoted in yellow below.

Term 1	Course Title/Description	Prerequisite	Cr Hrs
77-101	University Seminar		1
10-111	Composition I	A grade of C or better in ENGL 10110, an ACT English subscore of 18 or higher, or successful placement challenge.	3
17-120	Calculus I	MATH 17117 with a minimum grade of C, or MATH 17118 and MATH 17119 with a minimum grade of C in both, or equivalent. ACT Math score of at least 27, or a high school GPA of 3.9 is recommended.	3
44-101	Foundations of Computing		3
44-155	Intro to Data Science & Data Mining		3
	Humanities NW Core Requirement		3
Total Hours			16
Term 2	Course Title/Description	Prerequisite	Cr Hrs
10-112	Composition II	ENG 10-111	3
17-114	General Statistics	An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014.	3
29-102	Fundamentals of Oral Communication		3
44-141	Computer Programming I	2 units of high school algebra and either CSIS 44-101 OR CSIS 44-130 with a grade of C or better, or School Director's permission	3
	Social and Behavioral Sciences NW Core Requirement		3
Total Hours			15
Term 3	Course Title/Description	Prerequisite	Cr Hrs
32-201	Maps & Spatial Reasoning		3
17-316	Linear Stat Models I	A minimum grade of C in either MATH 17114 or MATH 17230, or consent of instructor.	3
44-241	Computer Programming II	CSIS 44-141 with a grade of C or better	3
17-311	Linear Algebra	MATH 17117 with a minimum grade of C, or MATH 17120 with a minimum grade of C.	3
	American History NW Core Requirement		3
Total Hours			15



Term 4	Course Title/Description	Prerequisite	Cr Hrs
44-242	Data Structures	CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor.	3
34-102	Introduction to American Government & Politics		3
17-318	Linear Stats Models II	A minimum grade of C in either MATH 17114 OR 17230.	3
54-313	Principles of Management		3
	Physical Science and Lab NW Core Requirement		4
Total Hours			16
Term 5	Course Title/Description	Prerequisite	Cr Hrs
10-220	Introduction to Literature		3
44-413	Visualization	MATH 17114 and CSIS 44141.	3
44-317	Management Information Systems	MGMT 54313 and either CSIS 44101 or CSIS 44130, each with a grade of C or better.	3
52-150	Principles of Macroeconomics		3
32-365	Geographic Information Systems	GEOG 32201 or junior standing.	3
Total Hours			15
Term 6	Course Title/Description	Prerequisite	Cr Hrs
39-275	Professional Ethics		3
44-460	Database Systems	CSIS 44542 with a grade of B or better, or concurrent enrollment in CSIS 44542, or consent of instructor.	3
55-330	Principles of Marketing		3
32-362	Web Mapping	GEOG 32201 or taking concurrently.	3
	Fine Arts NW Core Requirement		3
Total Hours			15
Term 7	Course Title/Description	Prerequisite	Cr Hrs
17-356	Data Mining and Applications	MATH 17114 or MATH 17230 or consent of instructor.	3
32-462	Digital Cartography and Geovisualization	GEOG 32201 or permission of instructor.	3
32-463	Remote Sensing	GEOG 32201 or permission of instructor.	3
	Life Science & Lab NW Core Requirement		4
	General Electives		3
Total Hours			16
Term 8	Course Title/Description	Prerequisite	Cr Hrs
32-465	Introduction to Customized GIS	GEOG 32365	3
32-565	Advanced Geographic Information Systems	GEOG 32365	3
32-364	Image Interpretation & Analysis	GEOG 32201 or taking concurrently.	3
	General Electives		6
Total Hours			15