



MSTC – Civil Engineering Technology – Highway Technician TO

UWSP – BS Geospatial Sciences

Transfer Courses – General Education:

MSTC			UWSP		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-801-136	English Composition 1	3	ENGL 101	Freshman English (GEP: WC)	3
10-809-198	Intro to Psychology OR	3	PSYC 110	Intro. to Psychology (GEP: SS) OR	3
10-809-188	Developmental Psychology		HD 265	Human Growth & Develop. (GEP: WLN)	
10-804-118	Intermediate Algebra with Applications	4	MATH 095	Intermediate Algebra (2 non-degree credits)	0
			MATH 107	Algebra for pre-Calculus	2
10-806-154	General Physics OR	4 OR	PHYS 201	Applied Principles (GEP: NSC) OR	4 OR
10-806-143	College Physics 1		PHYS EL	(GEP: NSC)	
10-804-195	College Algebra with Applications	3	MATH 118	Pre-Calculus Algebra (GEP: QL)	3
10-804-196	Trigonometry with Applications	3	MATH 119	Pre-Calculus Trig	3
10-809-166	Intro to Ethics: Theory & Applications OR	3	PHIL 101	Intro in Ethics in Society (GEP: HU) OR	3
10-809-195	Economics		ECON 110	Macroeconomic Principles (GEP: SS)	
10-801-198	Speech OR	3	COMM 101	Found. of Oral Comm. (GEP: OC) OR	3
10-801-196	Oral/Interpersonal Communication		GEN EL	COMM Elective (GEP: OC)	
	Total general education credits earned:	25-26		Total general education credits accepted:	23-24

AAS Professional Courses transfer in lieu of the requirement to complete a minor:

Transfer Courses in the Major:

MSTC			UWSP		
Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-103-123	Excel-Beginning	1			0
10-103-124	Excel-Intermediate	1			0
10-607-149	Highway Bridges, Medians, & Barriers	3			0
10-607-167	Inspection	2			0
10-607-145	Soils	3			0
10-607-110	Cemented Aggregate Mixtures	4			0
10-607-170	Storm Water Management	3			0
10-607-166	Construction, Estimation & Management	3			0
10-607-180	Civil Engineering Capstone	2			0
10-607-108	Intro to Civil 3D	1		Geospatial fundamentals (Geog 141-Our Digital Spatial World), if paired with Intro to Surveying-10-607-155	1
10-607-155	Intro to Surveying	2		Geospatial fundamentals (Geog 141-Our Digital Spatial World), if paired with Intro to Civil 3D-10-607-108	2
10-607-106	Intro to AutoCAD	1			0
10-607-115	Intro to Engineering	1			0
10-607-150	Civil Engineering Drafting I	3			0
10-607-160	Civil Engineering Drafting II	2			0
10-607-156	Surveying - Total Station	3			0

10-607-117	GIS Fundamentals	2	Geospatial fundamentals (Geog 341-Geographic Information Systems I), if paired with Land Records-10-607-118	2
10-607-174	GPS for Surveyors	2	Geospatial fundamentals (Geog377-Remote Sensing I), if paired with Drones and Remote Sensing-10-487-101	2
10-607-118	Land Records	1	Geospatial fundamentals (Geog 341-Geographic Information Systems I), if paired with GIS Fundamentals-10-607-117	1
10-607-171	Highway Surveying	2		0
10-487-101	Drones and Remote Sensing	1	Geospatial fundamentals (Geog377-Remote Sensing I), if paired with GPS for Surveyors-10-607-174	1
	Total occupational course credits earned:	43	Total occupational course credits accepted:	9
	Total credits required for graduation:	68-69	Total credits accepted at UWSP:	53-62

Courses Needed to Complete the Degree at UWSP:

Course No.	Course Title	Credits
General Education Program		9-25
ENGL 202	Sophomore English (GEP: WC)	3
	Wellness (WLN),	0-1
	Arts (ARTS),	3
	Humanities (HU),	0-3
	Historical Perspectives (HP)	3
	GEP: ARTS or HU or HP or NSC or SS	0-6
	Environmental Responsibility (ER),	0-3
	US Diversity (USD)	0-3
Major Requirements BS Geospatial Sciences		44-51
Earth and Human Systems Foundations, 9 - 10 credits		
GEOG 100	Human Impacts on the Physical Environment (GEP: ER, NSC)	3
GEOG 104	Physical Geology (GEP: NSC) OR	4 OR
GEOG 105	The Dynamic Earth (GEP: NSC)	3
GEOG 115	World Regional Geography (GEP: GA, SS) OR	3
GEOG 120	Human Geography (GEP: GA, SS)	
GEOG 230	Introduction to Regional Planning and Geodesign	3
Geospatial Fundamentals, 12 credits		
GEOG 341	Geographic Information Systems I	3
GEOG 141	Digital Spatial World (Geospatial Revolution: Careers And Tools) (GEP: SS)	3
GEOG 260	Intro. to Cartography: Map Conceptualization and Development	3
GEOG 377	Remote Sensing I	3

Mathematics and Computer Science, 8 credits (select 2)		
MATH 111	Applied Calculus (GEP: QL) OR	4
MATH 209	Mathematics for Information Sciences or	
MATH 355	Elementary Statistical Methods	4
CNMT 110	Object Oriented Programming	4
Human-Environment Interaction, 6 credits (select 2)		
GEOG 317	Africa (GEP: GA, SS)	3
GEOG 320	Urban Geography (GEP: SS)	3
GEOG 330	Urban and Regional Planning Analysis	3
GEOG 331	Planning Theory and Ethics	3
GEOG 208	Weather and Climate	3
GEOG 303	Processes of Environmental Degradation (GEP: ER)	3
GEOG 308	Climate: Past, Present, and Future	3
GEOG 312	Geomorphology	3
GEOG 393	Field Trip in Geography	3
GEOG 330	Environmental Geology	3
Geospatial Techniques, 6 credits (select 2)		

GEOG 342	GIS Database Design and Data Modeling	3
GEOG 343	Geographic Information Systems II - GIS Analysis	3
GEOG 360	Statistical and Multimedia Cartography	3
GEOG 361	Dynamic Cartography	3
GEOG 433	GIS and Geodesign for Sustainability and Resiliency	3
GEOG 441	GIS Customization and Programming	3
GEOG 477	Remote Sensing II	3
GEOG 443	Mobile GIS Techniques	3

Communication in the Major, 0-6 credits		
GEOG 330	Urban and Regional Planning Analysis	0
GEOG 361	Dynamic Cartography	3
GEOG 393	Field Trip in Geography	3
GEOG 490	Senior Research	3

Capstone Experience, 3 Credits (select 1)		
GEOG 480	Internship	3
GEOG 490	Senior Research	3
GEOG 491	Senior Thesis	3
GEOG 496	Community Development Practices	3

All Geospatial Science majors must choose an accompanying minor.		(21-29)
Associates professional courses may serve this purpose	Urban Planning and Geodesign	(24)
	Environmental Geography	(21)
	Earth Science	(24)
	GIS and Spatial Analysis	(24)
	CIS	(27)
	Web Development	(29)

Total credits needed at UWSP to complete major with minor requirements:	44-51
GEP credits required	9-25
TOTAL CREDITS AT UWSP TO COMPLETE DEGREE	53-76
TOTAL CREDITS TOWARDS DEGREE COMPLETION	112-139
TOTAL CREDITS REQUIRED FOR DEGREE COMPETION	120

University degree requirements:

UWSP University graduation requirements for a Bachelor's degree will need to be completed: 40 credits at 300 and 400 level and 120 total credits minimum.