

Land Surveying

Engineering & Information Technologies

2023-2024 Curriculum

FIRST YEAR

Course	Title	Pre-Reqs	Lec	Lab	Credit Hours
Semester 1					
CET-115	Architectural Drafting and Computer Aided Design		2	4	4
FYE-1XX	First Year Experience Elective		1	0	1
MAT-151	College Algebra		4	0	4
SUR-100	Introduction to Surveying		2	2	3
SUR-105	Surveying Fundamentals		2	3	3

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Semester 2

MAT-152	Trigonometry	MAT 151	4	0	4
SUR-110	Surveying for Construction Layout	SUR 105	2	3	3
SUR-120	CAD, Civil 3D, and Surveying Software	CET 115	2	4	4
SUR-130	Surveying History		4	0	4

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Semester 3

ENG-101	English Composition 1		3	0	3
SUR-X9X	Cooperative Education Elective 1		1	40	2

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SECOND YEAR

Semester 1

PHY-151	Physics 1: Algebra and Trigonometry-Based	Appropriate math placement	3	3	4
SUR-200	Route Location and Design	SUR 110	3	2	4
SUR-201	Elements of Land Surveying 1	SUR 110	3	2	4
SUR-215	Land Information Modeling	SUR 110	2	3	3
SUR-221	Dendrology 1		2	0	2

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Semester 2

COMM-110	Public Speaking	ENG 101	3	0	3
ECO-110	Principles of Macroeconomic		3	0	3
ENG-10X	English Composition Elective	ENG 101	3	0	3
SUR-202	Elements of Boundary Surveying 2	SUR 201	3	3	4
SUR-222	Dendrology 2	SUR 221	0	2	1

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Semester 3

SUR-230	Control Surveying	SUR 200	3	3	4
SUR-X9X	Cooperative Education Elective 2		1	40	2

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First & Second Year Electives

English Composition Elective: ENG 102, ENG 104, ENG 105

First Year Experience Elective: FYE 100, FYE 105, FYE 110

Cooperative Education Electives 1 & 2: (4 credit hours required) SUR 191, SUR 192, SUR 193, SUR 194, SUR 291, SUR

Land Surveying Continued

2023-2024 Curriculum

THIRD YEAR

Course		Title	Pre-Reqs	Lec	Lab	Credit Hours
Semester 1						
MAT-XXX	Mathematics Elective	SUR 200	2	2	3	
SUR-300	Advanced Surveying Calculations & Statistics		4	0	4	
XXX-XXX	Social/Behavioral Science Elective		3	0	3	
XXX-XXX	Arts/Humanities Elective		3	0	3	
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Semester 2

PHY-152	Physics 2: Algebra & Trigonometry-Based	PHY 151	3	2	4
SUR-305	Geospatial Surveying	SUR 230	4	0	4
SUR-310	Surveying Laws & Ethics	SUR 202	4	0	4
XXX-XXX	Arts/Humanities Elective		3	0	3
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Semester 3

SUR-X9X	Cooperative Education Elective 3		1	40	2
					2

FOURTH YEAR

Semester 1

EVS-120	Environmental Geology	ACC 101 ECO 105	3	2	4
MGT-120	Entrepreneurship		3	0	3
MKT-101	Principles of Marketing		3	0	3
SUR-420	Photogrammetry & Remote Sensing		2	3	3
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Semester 2

XXX-XXX	Science Elective		3	2	4
SUR-465	Subdivision Design & Drainage Control	SUR 120, SUR 200	3	3	4
SUR-490	Land Surveying Capstone	SUR 200, SUR 310	1	6	3
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Third & Fourth Year Electives

Arts/Humanities Elective: (Select 2 courses) ART 110, ART 111, ART 112, COMM 130, LIT 200, LIT 210, LIT 220, LIT 230, LIT 240, LIT 251, LIT 252, LIT 255, LIT 261, LIT 262, LIT 265, LIT 270, LIT 280, LIT 285, MUS 101, MUS 102, MUS 105, MUS 120, PHI 105, PHI 110, REL 105, THE 105, THE 110

Cooperative Education Elective 3: (2 credit hours required) SUR 391, SUR 392, SUR 491

Math Elective: MAT 131 or MAT 251

Social/Behavioral Science Elective: ECO 105, GEO 105, GEO 110, GEO 115, HST 101, HST 102, HST 111, HST 112, HST 121, HST 122, HST 130, LBR 105, POL 101, PSY 110, PSY 200, PSY 205, PSY 210, PSY 215, PSY 220, PSY 225, SOC 105, SOC 115, SOC 130, SOC 140

Science Elective: BIO 131, CHE 121 & CHE 131, PSC 105