



Surveying Engineering (SURV)

Core Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|--------------|---|-----------|-----------------|------------------|
| CSCI250 | Introduction to Programming | 3 | | ENGL101-CSCI250L |
| CSCI250L | Introduction to Programming Lab | 1 | ENGL101 | CSCI250 |
| EENG250 | Electric Circuits I | 3 | ENGL051 | MATH210 |
| IENG300 | Engineering Project Management | 3 | ENGL201 | |
| MATH210 | Calculus II | 3 | MATH160 | |
| MATH220 | Calculus III | 3 | MATH210 | |
| MATH225 | Linear Algebra with Applications | 3 | MATH160 | |
| MATH270 | Ordinary Differential Equations | 3 | MATH210 | MATH225 |
| MATH310 | Probability & Statistics for Scientists & Engineers | 3 | MATH210-ENGL201 | |
| MENG225 | Engineering Drawing & CAD | 3 | | |
| MENG250 | Mechanics I (Statics) | 3 | ENGL051 | MATH210 |
| PHYS220 | Physics for Engineers | 3 | ENGL101-PHYS160 | MATH210 |
| Total | | 34 | | |

Major Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|--------------|--|-----------|-----------------|--------------|
| SURV305 | Surveying I | 3 | MATH210 | SURV305L |
| SURV305L | Surveying Practice I Lab | 1 | | SURV305 |
| SURV315 | Geology | 3 | ENGL201 | |
| SURV325 | Cartography | 3 | | SURV305 |
| SURV335 | Surveying Drawing & CAD | 3 | MENG225 | |
| SURV355 | Surveying II | 3 | SURV305 | SURV355L |
| SURV355L | Surveying Practice II Lab | 1 | SURV305 | SURV355 |
| SURV365 | Geodesy I | 3 | SURV325 | |
| SURV375 | Topometric Calculus I | 3 | SURV305 | |
| SURV385 | Computer Aided Drafting for Surveyors | 3 | SURV335 | |
| SURV405 | Photogrammetry | 3 | SURV355 | |
| SURV414 | Cadastral Surveying and Construction LAW | 3 | SURV355 | |
| SURV420 | Surveying application I | 3 | SURV375-SURV355 | |
| SURV425 | Topometric Calculus II | 3 | SURV375 | |
| SURV435 | Theory of Measurement Errors | 3 | SURV355 | |
| SURV445 | Geodesy II | 3 | SURV365 | |
| SURV455 | Geographic Information Systems I | 3 | SURV405 | |
| SURV465 | Spatial Geodesy (GPS I) | 3 | SURV445 | |
| SURV474 | Urban Planning and Land Subdivision | 3 | SURV414 | |
| SURV495 | Senior Project | 3 | SURV420-IENG300 | |
| Total | | 56 | | |

General Education Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|---|---------|---------------|--------------|
| ARAB200 | Arabic Language and Literature | 3 | | |
| CULT200 | Introduction to Arab - Islamic Civilization | 3 | | |

| | | | | |
|-------------------------------------|---------------------------------|----------------|----------------------|---------------------|
| ENGL201 | Composition and Research Skills | 3 | ENGL151 | |
| ENGL251 | Communication Skills | 3 | ENGL201 | |
| Total | | 12 | | |
| General Education Electives | | | | |
| Code | Title | Credits | Prerequisites | Corequisites |
| | General Education Electives | 3 | | |
| | General Education Electives | 3 | | |
| Total | | 6 | | |
| Major Elective Courses | | | | |
| Code | Title | Credits | Prerequisites | Corequisites |
| There are no Major Elective Courses | | | | |