

**Recommended Academic Plan for BS in Surveying Engineering (SUR E) at Wilkes-Barre
Effective Fall 2008**

Semester 1		Credits	Semester 2		Credits
ENGL 015 (GWS) Rhetoric and Composition	3		Arts (GA), Humanities (GH) or Soc. Science (GS)	3	
MATH 140 (GQ) Calculus w/ Analytic Geometry I	4		KINES (GHA)	1	
<i>GEOG 010 or CHEM 110 (GN)</i>	3		MATH 141 (GQ) Calculus w/ Analytic Geometry II	4	
EDSGN 100 Engr. Design & Graphics	3		MATH 220 (GQ) Matrices	2	
SUR 100S Surveying First-Year Seminar	1		SUR 112 Curve Geometry	3	
SUR 111 Plane Surveying	3		SUR 162 Methods in Large-scale Mapping	3	
<i>Total Credits:</i>	17		<i>Total Credits:</i>	16	
Semester 3		Credits	Semester 4		Credits
MATH 230 Calculus & Vector Analysis	4		MATH 251 Differential Equations	4	
STAT 401 Experimental Methods	3		<i>PHYS 211 (GN) Mechanics</i>	4	
Arts (GA), Humanities (GH), or Soc. Science (GS)	3		SUR 222 Photogrammetry	3	
SUR 241 Survey Measurement Analysis	3		SUR 262 Coordinate Systems in Map Projections	2	
<i>ECON 102 or 104 (GS) Economics</i>	3		<i>CMPSC 201C Programming for Engineers</i>	3	
<i>Total Credits:</i>	16		<i>Total Credits:</i>	16	
Semester 5		Credits	Semester 6		Credits
SUR 272 Cadastral Surveying	3		SUR 362 Multi-purpose Land Info. Systems	3	
SUR 341 Adjustment Computations	3		SUR 372W Legal Aspects of Land Surveying	3	
SUR 351 Geodetic Models	3		Technical Elective (or SUR 441)	3	
<i>CAS 100A (GWS) Effective Speech</i>	3		PHYS 213/214 Fluids & Thermal Physics/ Quantum Physics	2	
PHYS 212 (GN) Electricity & Magnetism	4		ENGL 202C (GWS) Technical Writing	3	
			KINES (GHA)	1	
<i>Total Credits:</i>	16		<i>Total Credits:</i>	15	
Semester 7		Credits	Semester 8		Credits
SUR 471 Professional Aspects of Land Surveying	3		SUR 441 Data Analysis & Project Design	3	
SUR 490 Seminar in Surveying	1		SUR 482 Land Development Design	3	
Related area	3		Related area	3	
Technical Elective	3		Technical Elective	3	
Arts (GA), Humanities (GH), or Soc. Science (GS)	3		Arts (GA), Humanities (GH), or Soc. Science (GS)	3	
Arts (GA), Humanities (GH), or Soc. Science (GS)	3		KINES (GHA)	1	
<i>Total Credits:</i>	16		<i>Total Credits:</i>	16	

- **Bold type** indicates courses requiring a quality grade of "C" or better
- *Italic type* indicates courses that satisfy both major and General Education requirements.
- **Italic bold type** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, GS, FYS are codes used to identify General Education requirements
- US and IL are codes used to designate courses that satisfy university United States/International Cultures requirements
- W is the code used to designate courses that satisfy university Writing Across the Curriculum requirements
- Y is the code used to designate courses that satisfy the university W and US/IL requirements

Program Notes:

Academic Advising Notes: