

**Bachelor of Science in Engineering Technology: CAD-GIS emphasis**  
**Worksheet & Pre-Requisites 16-17**

<b>Course #</b>	<b>Course title</b>	<b>cr</b>	<b>Offered</b>	<b>Pre -requisites</b>
<b>CORE *see also GEN ED</b>				
CCET 4960 or GEOG 4500	Senior Project or GIS Research Project	3	F/S	Instructor Permission
CSIS 1400 or GEOG 2920	Fundamentals of Programming or Python	3	F/S	MATH 1010 or Math ACT 23
MATH 1210	Calculus I	4	F/S/M	C or better MATH 1050 & 1060
PHYS 2010/2015	College Physics/Lab	3/1	F	MATH 1060
<del>TECH 3000</del> ENGR 3240/3245	<del>Occupational Safety</del> Advanced Surveying	3	S	
ENGR 4060 COMM 4240	<del>Manufacturing</del> Technical Writing	3	F/S/M	
<b>CAD/GIS Composite</b>				
CCET 1010	Intro to Engineering Technical Design	3	F/S	
CCET 1040	Intro to Residential Arch using AutoCAD	3	F/S	
<del>CCET 3630</del> CCET 4610	<del>Fund of CATIA</del> Advanced Solid Modeling	3	S	CCET 1040
CCET 3670	Civil Design	3	S	CCET 1010 & 1040
EET 2750	PC Hardware	3	F/S	
<del>ENGR 2010</del> GEOG 3110/3115	<del>Statics</del> Remote Sensing	3/1	F	PHYS 2010 Advisor must sign in
CCET 2240/45	Surveying & Global Positioning/lab	2/1	F	MATH 1060 & co req
GEOG 2900	GPS Theory, Techniques & Methods	2	S	Instructor Permission
GEOG 3500/05	Intro to Cartography/lab	3/1	F-odd	Co reqs
GEOG 3550/55	Principles of GIS/lab	3/2	F	Co reqs
GEOG 4150	Advanced GIS Analysis Methods Lab	3	S	GEOG 3550
<b>Electives (3 hrs. from the below)</b>				
TECH 4890	Technology Internship	3	F/S	Approval of Faculty
GEOG 4890	GIS Internship	3	F/S	Approval of Faculty
GEOG 3990	Undergraduate Research in Geography/GIS	3	Varies	Approval of Faculty
<b>Free electives (need to complete 40 upper div credits)</b>		23 total		
UNIV 1010	EDGE Program Introduction	1	F/S/M	
UNIV 3925	EDGE Project Proposal	1	F/S/M	
UNIV 4925 or UNIV 4930	EDGE Program Completion/Select Track	1	F/S/M	
<b>GENERAL EDUCATION</b>				
ENGL 1010	Intro to Academic Writing	3	F/S/M	
ENGL 2010	Intermediate Writing	3	F/S/M	
<b>*MATH 1210</b>	<b>Calculus I</b>	4	F/S/M	MATH 1050 & MATH 1060
LM 1010	Information Literacy	1	F/S/M	
American Institution		3	F/S/M	
CSIS 1000	Intro to Computer Applications & Internet	3	F/S/M	
FINE ARTS:		3	F/S/M	
<b>*HUMANITIES: HSS 1120</b>	<b>Introduction to Diversity</b>	3	F/S/M	
SOCIAL SCIENCE		3	F/S/M	
LIFE SCIENCE		3/4	F/S/M	
<b>*PHYS. SCI.: PHYS 2010/15</b>	<b>College Physics I &amp; lab</b>	4/1	F	MATH 1060