GADOMSKI SCHOOL OF ENGINEERING

B.S. IN CIVIL ENGINEERING

This ***sample paradigm*** shows a normal 4-year progression towards a degree in civil engineering.
Some of the courses should be taken in this order due to prerequisite structures; others may be switched.

FRESHMAN YEAR

Semester I		Credits
CE 110	Intro to Civil Engineering	2
CE 111	Civil Engineering Graphics	3
ENG 123	Writing & Critical Literacy	3
MATH 131	Calculus I	3
BIOL 105	Environmental Biology	3
CBU 101	Orientation	0
–	General Education	3
Total		**17**

Semester II		Credits
CE 113	Civil Engineering Analysis	2
ENG 130	Writing & Critical Research	3
MATH 132	Calculus II	3
PHYS 150 & 150L	Physics I & Lab	4
–	General Education	3
Total		**15**

SOPHOMORE YEAR

Semester I		Credits
CE 225 & 225L	Geomatics & Lab	4
CE 201	Statics	3
CE 210	Mechanics of Materials	3
MATH 231	Differential Equations	3
PHYS 251 & 251L	Physics II & Lab	4
Total		**17**

Semester II		Credits
CE 212	Structural Analysis	3
ENGR 310	Fluid Mechanics	3
MATH 232	Calculus III	3
CHEM 113 & 113L	General Chemistry & Lab	4
–	General Education	3
Total		**16**

JUNIOR YEAR

Semester I		Credits
CE 251	Construction Materials	3
CE 310	Design of Steel Structures	3
CE 313	Hydraulics & Hydrology & Lab	4
CE 322 & 322L	Soil Mechanics & Lab	4
–	CE Major Elective	3
Total		**17**

Semester II		Credits
CE 311	Design of Reinforced Concrete	3
CE 329	Environmental Engineering & Lab	4
CE 318	Highway Engineering	3
CE 340	Design of Foundations	3
ME 202	Dynamics	3
Total		**16**

SENIOR YEAR

Semester I		Credits
ECE 400	The Compleat Engineer	3
CE 431	Senior Design Project I	2
CE 489	Lic/Cert in Civil Engineering	0
–	Construction Elective	3
–	General Education	3
–	General Education	3
–	MATH Elective	3
Total		**17**

Semester II		Credits
CE 432	Senior Design Project II	2
CE 351	Fundamentals of Engineering Economy	2
–	Statistics/Probability Requirement	3
–	CE Major Elective	3
–	General Education	3
–	Program Option	3
Total		**16**

Total credits required for bachelor's degree completion: 131