

RECOMMENDED ACADEMIC PLAN – STRUCTURAL DESIGN AND CONSTRUCTION ENGINEERING TECHNOLOGY

Semester I		Semester II	
ENGL 015 Rhetoric and Composition or 030 Honors Freshman Composition GWS	3	PHYS 150 Technical Physics I GN or PHYS 211 General Physics: Mechanics GN	3-4
CHEM 110 Chemical Principles & 014 Experimental Chemistry I GN	4	CAS 100 Effective Speech GWS	3
EDSGN 100 Introduction to Engineering Design	3	ECON 002 Introductory Microeconomic Analysis and Policy, 004	3
Arts GA	3	Introductory Macroeconomic Analysis and Policy, or 014 Principles of Economics GS	
First-Year Seminar	1	Humanities GH	3
		Social Studies	3
	14		15-16
Semester III		Semester IV	
MATH 140 Calculus With Analytic Geometry I GQ	4	MATH 141 Calculus with Analytic Geometry II or STAT 200 Elementary Statistics GQ	4
PHYS 151 Technical Physics II or PHYS 212 General Physics: Electricity and Magnetism GN	3-4	ENGL 202C Effective Writing: Technical Writing GWS	3
One of the following: CMPSC 101 Introduction to Algorithmic Processes, 201 Programming for Engineers with C++ GQ, 202 Computer Programming for Engineers with FORTRAN, CMPSC 121 to Programming Techniques, or ET 324 Visual Basic in Science, Engineering, and Technology	3	E MCH 211 Statics, MCH T 111 Mechanics for Technology: Statics or ET 300 Mechanics I: Statics	3
Arts GA	3	Humanities GH	3
Select 3-4 credits from ACCTG 211 Financial and Managerial Accounting for Decision Making or MGMT 100 Survey of Management, MGMT 301 Basic Management Concepts	3-4	Elective	3
	16-18		16
Semester V		Semester VI	
C ET 333W Construction Management I	3	C ET 308 Construction Methods and Materials	3
C ET 242 Civil Engineering Materials - Concrete and Bituminous	2	C ET 343 Soils & Fluid Mechanics	3
Select 3 credits from E MCH 213 Strength of Materials, or MCH T 213 Strength and Properties of Materials or ET 322 Strength of Materials	3	C ET 430 Structural Analysis	3
ET 323 Strength of Materials Laboratory or MCH T 214 Strength and Properties of Materials Laboratory	1	IE 303 Engineering Economy Analysis	2
C E 310 Surveying	3	C ET 435 Construction Estimating	3
ET 200 Graphic Communications	3	SSET 295 Internship	1
	15		15
Semester VII		Semester VIII	
C ET 431 Structural Design-Steel	3	C ET 434 Foundations	3
C ET 432 Structural Design-Reinforced Concrete	3	C E 488 D Capstone Project - Structural Design or C Capstone Project - Construction	3
C E 488 D Capstone Project - Structural Design or C Capstone Project - Construction	1	Option Selection	3
C E 254 Personal and Occupational Safety	3	Option Selection	3
**Option Selection	3	Option Selection	3
**Option Selection	3	Option Selection or Elective	3
	16		18

Advising Notes

- **Bold type** require a grade of C or better.
- *Italics* indicates courses that satisfy both major and General Education requirements.
- **Bold Italics** 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, and GS are codes used to identify General Education requirements.
- US, IL, and US;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.

*Students who take PHYS 211 and 212 should take MATH 140 and 141. These students should therefore take MATH 140 and 141 in semesters I and II and then PHYS 211 and 212 in semesters II and III.

** Courses listed in Option Selection must be chosen from the selected option in the SDCET program-Structural Design, Construction Management, or General. Prescribed courses in option selections require a grade of C or better.

CONSTRUCTION OPTION (19 - 20 credits)

C E 456 Planning & Scheduling (3); C E 458 Construction Management II (3); C E 488C Capstone Project (4); A E 310 Fundamentals HVAC (3); ACCTG 211 Financial Accounting (4) or MGMT 100 or 301 Basic Management (3); Approved Listed Selection. (3)

STRUCTURAL OPTION (19 credits)

C E 445 Advanced Structural Analysis (3), C E 449 Advanced Structural Design (3); C E 488D Capstone Project (4); CET 361 or C E 360 Fluid Flow (3), E MCH 212 or ET322 Dynamics (3), Approved Selection(3)

GENERAL OPTION: (22 credits)

C E 445 Advanced Structural Analysis (3), C E 449 Advanced Structural Design (3); C E 456 Planning & Scheduling (3); C E 458 Construction Management II (3); C E 488D or C Capstone Project (4); CET 361 or C E 360 Fluid Flow (3), A E 310 Fundamentals HVAC (3)

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."

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