

FALL 2018



# College of Science, Engineering and Technology

Major: Civil Engineering  
Concentration: General Engineering

Entering Term: \_\_\_\_\_  
Expected Graduation Date: \_\_\_\_\_  
Advisor: \_\_\_\_\_

Approved: Academic Affairs

*L. Brown-Wright*

Dr. Lynda Brown-Wright, Provost

\*Indicate Summer Courses in Comments Section\*

FRESHMAN YEAR FALL 1st SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
MATH 241	Calculus I	3		
CHEM 141 & CHML 141	General Chemistry I & Lab	3		
ENG 104	Composition I	3		
HIST 101	History of Civilization I	3		
UNIV 100	University Success	2		
TOTAL CREDIT HOURS		15	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

FRESHMAN YEAR SPRING 2 <sup>ND</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
MATH 242	Calculus II	3		
PHY 211 & PHY 211	General Physics I & Lab	5		
ENG 105	Composition II	3		
HIST 102	History of Civilization I	3		
SPCH	Speech Elective	3		
TOTAL CREDIT HOURS		17	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

SOPHOMORE YEAR FALL 1 <sup>ST</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
MATH 243	Calculus III	3		
PHY 212 & PHY 212	General Physics I & Lab	5		
ENG	English Elective	3		
CIV 222	Engineering Mechanics I	3		
SCI	Introduction to Biology or Earth and Space Science	2		
TOTAL CREDIT HOURS		16	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

SOPHOMORE YEAR SPRING 2 <sup>ND</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
MATH 244	Calculus IV	3		
MATH 368	Ordinary Differential Equations I	3		
CIV 223	Engineering Mechanics II	3		
CIV 240	Strength of Materials	3		
CIV 201	Engineering Graphics	3		
TOTAL CREDIT HOURS		15	GRADE POINT AVERAGE	

English Proficiency: Date taken \_\_\_\_\_ Pass or Fail If Failed: English 399 (Functional Writing): Date Taken \_\_\_\_\_ Pass or Fail

Comments: \_\_\_\_\_

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JUNIOR YEAR FALL 1 <sup>ST</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
MATH 307	Probability & Statistics for Engineering	3		
CIV 320	Structural Analysis	3		
CIV 330 & CIVL 330	Fluid Mechanics and Lab	4		
CIV 340 & CIVL 340	Introduction to Environmental Engineering and Lab.	4		
CIV 355	Engineering Economy	3		
TOTAL CREDIT HOURS		17	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

JUNIOR YEAR SPRING 2 <sup>ND</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
CIV 360	Design of Steel Structure	3		
CIV 370	Water Resources Engineering	3		
CIV 380 & CIVL 380	Introduction to Geotechnical Engineering and Lab	4		
CIV 390	Introduction to Transportation Engineering	3		
CIV ELECTIVE	Civil Engineering Elective	3		
TOTAL CREDIT HOURS		16	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

SENIOR YEAR FALL 1 <sup>ST</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
CIV 410	Capstone Design I	3		
CIV 420	Design of Concrete Structures	3		
CIVL 421	Structural Engineering Lab	1		
CIV 430	Foundation Engineering	3		
CIV ELECTIVE	Civil Engineering Elective	3		
CIV ELECTIVE	Civil Engineering Elective	3		
PHIL	Philosophy Elective	3		
TOTAL CREDIT HOURS		19	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

SENIOR YEAR SPRING 2 <sup>ND</sup> SEMESTER				
COURSE	COURSE TITLE	CREDIT HOURS	GRADE	NOTES
CIV 411W	Capstone Design I	3		
CIV 461	Professional & Ethical Issues in Civil Engineering	1		
FINE ARTS	Fine Arts Elective	3		
CIV ELECTIVE	Civil Engineering Elective	3		
CIV ELECTIVE	Civil Engineering Elective	3		
TOTAL CREDIT HOURS		13	GRADE POINT AVERAGE	

Comments: \_\_\_\_\_

On-line Graduation Clearance (TO BE COMPLETED DURING THE GRADUATING SEMESTER ONLY)

TOTAL HOURS: 128 (REQUIRED)

\*Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100: University Success, however, the student must take 2 hours of general electives to replace the UNIV course.

\*All students must take the Undergraduate English Proficiency Examination (UEPE) after the sophomore year. Students not passing the exam must take **ENG 399**

STUDENT SIGNATURE

DATE

ADVISOR SIGNATURE

DATE

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CIVIL ENGINEERING TECHNICAL ELECTIVES:

CIV 310 & CIVL 310 ENG. SURVEYING LEC. AND LAB  
CIV 431 TRAFFIC ENGINEERING  
CIV 441 WATER & WASTEWATER TREATMENT PROCESSES  
CIV 451 COMPUTER METHODS IN CIVIL ENGINEERING  
CIV 460 DESIGN OF ENVIRONMENTAL ENGINEERING FACILITIES  
CIV 465 ADVANCES WATER RESOURCES ENGINEERING  
CIV 466 ADVANCED DESIGN OF HYDRAULIC STRUCTURES  
CIV 468 HAZARDOUS WASTE ENGINEERING  
CIV 470 URBAN TRANSPORTATION ENGRG SYSTEM DESIGN  
CIV 471 PRINCIPLES OF GEOENVIRONMENTAL ENGINEERING  
CIV 472 APPLIED GEOTECHNICAL ENGINEERING DESIGN  
CIV 475 PAVEMENT DESIGN  
CIV 476 ADVANCED DESIGN OF STEEL STRUCTURES  
CIV 477 ADVANCED DESIGN OF CONCRETE STRUCTURES  
CIV 478 DESIGN OF WOOD AND MASONRY STRUCTURES  
CIV 479 EVALUATION, MAINTENANCE AND REHABILITATION OF PUBLIC WORKS INFRASTRUCTURE  
CIV 481 SPECIAL PROBLEMS IN CIVIL ENGINEERING  
CIV 491 INTERNSHIP IN CIVIL ENGINEERING I  
CIV 492 INTERNSHIP IN CIVIL ENGINEERING II

At least one civil engineering must be chosen from CIV 441 or CIV 460 (required environmental engineering elective). At least one civil engineering elective must be chosen from CIV 431, CIV 470, CIV 475, or CIV 479 (required transportation engineering elective). The selection of other courses requires the approval of advisor and Dept. Chair.

Basic Science Elective:

BIO 101 & BIOL 101 Introduction to Biology  
SCI 205 Earth and Space Science.

The students are required to contact their advisors or Department Chair prior to taking any civil engineering elective.

The students must take the Fundamentals of Engineering (FE) exam during the last semester, prior to graduation.

Engineering classes are generally offered once a year.

No pre-req violations are allowed. If a student has a pre-req violation, he/she may not be able to graduate on time.

DEVELOPMENTAL COURSE REQUIREMENTS:

ENG 002 Required for students with an ACT English subtest score of 16 or less.  
Strongly encouraged for students with an ACT English subtest score of 19 or less.

MATH 004 Required for students with an ACT Math subtest score of 16 or less.  
Strongly encouraged for students with an ACT Math subtest score of 19 or less.

RE 002 Required for students with an ACT Reading subtest score of 16 or less.  
Strongly encouraged for students with an ACT Reading subtest score of 19 or less.

GNST 101,102 Required for students taking two or more intermediate courses. Students in the Academic Support Program will not be permitted to take more than 15 semester hours, including intermediate courses and the Academic Support Program.

Note: (A) Students who transfer 12 or more hours of college credit are exempt from UNIV 100, (B) Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 – Calculus I, (C)