

BACHELOR OF SCIENCE DEGREE MATHEMATICS- PRE-ENGINEERING

2023-2024 Catalog

Total Degree Requirements 120 hours

NAME _____

UA/GA _____ GRAD DATE _____

DSU ID# _____ ADVISOR _____

BAN _____ GPA _____

Evaluated by _____ Date _____

DBASE _____ HON _____

GENERAL EDUCATION REQUIREMENTS 40-41				
COURSE	SUB/TR	SEM	HRS	GR
ENG 101 Eng Comp			3	
ENG 102/200/201 Eng Comp			3	
*ENG LIT- ENG 201, 203, 205 or 206			3	
HIS 101, 102, 103, 104, 201, or 202			3	
**FINE ARTS			3	
**PHI 201, LIT, HIS, Fine Arts not already taken			3	
MAT 251			3	
CHE 101 Gen Che I			3	
CHE 103 Gen Che Lab I			1	
CHE102 Gen Che II			3	
CHE104 Gen Che Lab II			1	
***Perspectives on Society			3	
***Perspectives on Society			3	
****Personal Development			2-3	
COM 101 or 202			3	

*Transfer credit for most lit courses will count for this requirement

**Select one introduction/appreciation/history of art, music or creative writing

Fine Arts: ART 101, 212, 401, 402, 405; MUS 105, 114, 115, 116; or ENG 202

***Select one: ECO 210, 211; GEO 201, 303; HON 290; PSC 103,201 PSY 101; SOC 101

****Select one: SHS 360; CEL 300; CIS 205; FCS 215, 270, 325, 343; HON 102; SWO 101, 300; For Lang 101; LIB 101;

OR Select two of the following: PER 101, PER 100 level activity

COURSE	SUB/TR	SEM	HRS	GR
*University Requirement FYS 100/300			1	

*FYS 103 for honor students can meet this requirement.

SPECIAL DEGREE REQUIREMENTS 10-14				
Select one combination:				
*FOREIGN LANG and FOREIGN LANG <u>OR</u>			3	
CIS 311 Applications Development and CIS 455 Database Project <u>OR</u>			6	
SHS 360 Elem Sign Language I and SHS 362 Basic American Sign Language II			6	

* 3 hrs from Gen Ed Req may be used to satisfy

SPECIAL DEGREE REQUIREMENTS CONT.					
PHY 231					3
PHY 235					1
**SCIENCE Elect					3-4

**Pre-Engineering recommended to take PHY 232 AND 236

MATHEMATICS 37					
COURSE	SUB/TR	SEM	HRS	GR	
MAT 210 Comp Prog Fund			3		
MAT 252 Calculus II			3		
MAT 253 Calculus III			3		
MAT 254 Calculus IV			3		
MAT 305 Foundations of Mathematics			3		
MAT 425 Modern Algebra I			3		
MAT 442 Linear Algebra			3		
MAT 490 Senior Sem in Math			1		
*MAT Elect above 300-level			3		
*MAT Elect above 300-level			3		
*MAT Elect above 300-level			3		
*MAT Elect above 300-level			3		
*MAT Elect above 300-level			3		

*Recommended to take MAT 300 and 322

*GENERAL ELECTIVES 27-34			
COURSE	GR/HR	COURSE	GR/HR

*Electrical Pre-Engineering students take PHY 371 & CHE 372

*Mechanical Pre-Engineering students take PHY 371

*Chemical and Petroleum Pre-Engineering Students take PHY371, CHE 319, 320, 321, 322, and 432

*Civil Pre-Engineering students take PHY 371, GIS 200, 202, 241, 351, and 391

*Environmental Pre-Engineering students take PHY 371 and choose from the following electives:

GIS 200, 202, 241, 251, and 391

BIO 100, 101, 123, 301, 309, and 416

*Biomedical Pre-Engineering students take PHY 371 and choose from the following electives:

BIO 100, 101, 300, 319, 328, 349, 350, and 442

CHE 319, 320, 321, 322, 440, 441, and 443