

2024-2025

ENGINEERING MATHEMATICS MAJOR, B.A.

Mathematics & Computer Science Department; Shaw School of Sciences

This degree prepares students to enter a Master of Engineering program within the areas of concentration.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

MAJOR REQUIREMENTS (62-64)							
(47 Co	re + 15-17	7 Concent	tration)				
3	CHE	121	Gen College Chemistry I	EGMM	- ENGIN	IEERING	MANAGEMENT (15)
_ ₃	CHE	122	Gen College Chemistry II	3	ACC	201	Financial Accounting
1	CHE	123	Gen College Chemistry Lab I	3	ACC	202	Managerial Accounting
1	CHE	124	Gen College Chemistry Lab II	3	BU	211	Principles of Management
4	CSC	121	Computer Programming I Lab	3	BU	412	Organizational Behavior & Structure
				3	MAT	255	Financial Mathematics
$-\frac{4}{4}$	MAT	181	Calculus I Lab				
4	MAT	182	Calculus II Lab	EGMI	- INDUST	RIAL EN	GINEERING (16)
4	MAT	183	Calculus III Lab	3	BU	211	Principles of Management
3	MAT	252	Differential Equations	3	BU	412	Organizational Behavior & Structure
3	MAT	271	Linear Algebra	4	CSC	122	Computer Programming II Lab
3	MAT	350	Mathematical Modeling	3	MAT	241	Logic & Sets
_4 _3 _3 _3 _3	MAT	442	Numerical Analysis		MAT	281	Probability
1	MAT	475	Senior Seminar				·
				EGMS	- MATER	RIALS & E	ENERGY SCIENCE ENGINEERING (17)
5	PHY	211	Gen Physics I	3	BU	211	Principles of Management
			Lab Recitation	4	CHE	421	Physical Chemistry I Lab
5	PHY	212	Gen Physics II	4	CSC	122	Computer Programming II Lab
			Lab Recitation	3	MAT	152	Discrete Math
				3	MAT	241	Logic & Sets
REQUIF	RED CON	ICENTRA	ATION (choose one):				
EGMB - BIOENGINEERING (16)							
$-\frac{3}{2}$	BIO	201	General Biology I				
_3	BIO	202	General Biology II				
1	BIO	203	General Biology I Lab				
1	BIO	204	General Biology II Lab				

PLUS *FOUNDATIONS REQUIREMENTS (49)

(3 hours Math and 4 hours Science satisfied by required major courses.)

Plus electives needed for the 124 hour Degree requirement (11-13)

BIO

BIO

BIO

BIO

331

333

372

374

Human Anatomy

Human Anatomy Lab

Cellular & Molecular Biology

Cell & Molecular Biology Lab