

BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES WITH MINOR IN ENGINEERING

I. CORE REQUIREMENTS (60 hours)		
English 1311, 3300, + 6 hours Sophomore Literature		12
Fine Arts 1101, 1102, 1103 + 3 hours of Art, Drama, or Music		6
Foreign Language*		6
Speech		3
Science - Biology (Physics 1404 and 2404 listed below)		3
Information Technology Proficiency (CS 1101, 1102, 1103)		-
Theology 2301 + 3 hours from: (TH 3301, 3302, 3303, 3330, 3332, 3334, 3350, 3356, 3380, 3382)		6
Philosophy 1310, 2332 + 3 advanced hours		9
Social Science		15
II. MAJOR: MATHEMATICAL SCIENCES (39 hours)		39
Core Mathematics - MT 2412, 2413, 3311, 3324, 3372, 3414, 4331, 4332, 4351		
MT 5360 Senior Project		
Six additional hours of Mathematics from:		
MT 3315 Advanced Mathematics for Electrical Engineers		
MT 4311 Complex Variables		
MT 4312 Boundary Value Problems		
MT 4352 Numerical Analysis II		
III. MINOR: ENGINEERING (24 Hours)		24
Required		
PY 1404 Mechanics, Heat, Acoustics	EG 1305 Object-Oriented Programming	
PY 2404 Electricity, Magnetism, Optics	EG 2352 Circuit Analysis I	
EG 1304 Engineering Programming		
--6 hours from Track I or Track II		
TRACK I		
EG 2353 Circuit Analysis II	TRACK II	
+ 3 hours from:	EG 2341 Fundamentals of Logic Design	
EG 3366 Electromagnetic Theory	EG 3356 Electronics I	
EG 4369 Control Systems		
EG 3372 Signals and Systems		
IV. ELECTIVES		9
TOTAL HOURS		135

BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES WITH MINOR IN ENVIRONMENTAL MODELING

I. CORE REQUIREMENTS (63 hours)		
English 1311, 3300, + 6 hours Sophomore Literature		12
Fine Arts 1101, 1102, 1103 + 3 hours of Art, Drama, or Music		6
Foreign Language*		6
Speech		3
Science - Biology (Chemistry 1401, 1402 listed below)		3
Information Technology Proficiency (CS 1101, 1102, 1103)		3
Theology 2301 + 3 hours from: (TH 3301, 3302, 3303, 3330, 3332, 3334, 3350, 3356, 3380, 3382)		6
Philosophy 1310, 2332 + 3 advanced hours		9
Social Science		15
II. MAJOR: MATHEMATICAL SCIENCES (39 hours)		39
Core Mathematics - MT 2412, 2413, 3311, 3324, 3372, 3414, 4331, 4332, 4351		
MT 5360 Senior Project		
Six additional hours of Mathematics:		
MT 3321 Introduction to Modern Algebra		
MT 4312 Boundary Value Problems		
MT 4352 Numerical Analysis II		
III. MINOR: ENVIRONMENTAL MODELING (20 hours)		20
CH 1401, 1402 General Chemistry I and II		
12 hours from:		
CH 3423 Analytical Chemistry		
CH 3424 Instrumental Analysis		
CH 3433 Physical Chemistry I		
CH 3434 Physical Chemistry II		
IV. ELECTIVES		13
TOTAL HOURS		135

* 6 hours of Second Year level (2311, 2312) in a foreign language in which the student has prior knowledge or training, meaning he/she speaks the language or took it in high school. Or, 6 hours of Introductory level (1311, 1312) language in which he/she has no prior training knowledge. Or, 12 hours of CLEP credit.