

BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES WITH MINOR IN OPERATIONS RESEARCH

I. CORE REQUIREMENTS (66 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 (<i>Biological/Physical</i>) 6 hours in one area & 3 in the other	9
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 3323 Discrete Mathematics	
MT 4352 Numerical Analysis II	
III. MINOR: OPERATIONS RESEARCH (18 hours)	18
EG 1304 Engineering Programming	
EG 1305 Object-Oriented Programming and Design	
EG 3335 Operations Research I	
EG 3336 Operations Research II	
EG 4330 Quality Control & Reliability	
EG 4337 Computer Simulation	
IV. ELECTIVES	9
TOTAL HOURS	135

BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES WITH MINOR IN PHYSICS

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 (Physics 1404 and 2404 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 from:	
MT 4311 Complex Variables	
MT 4312 Boundary Value Problems	
MT 4352 Numerical Analysis II	
III. MINOR: PHYSICS (18 hours)	18
Required:	
PY 1404 Mechanics, Heat, Acoustics	
PY 2404 Electricity, Magnetism, Optics	
PY 3301 Atomic Physics	
PY 3101 Atomic Physics Lab	
6 hours from:	
PY 3304 Thermodynamics	
PY 3307 Mechanics	
PY 3309 Electromagnetics (EG 3366)	
IV. ELECTIVES	15
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 or knowledge. Or, 12 hours of CLEP credit.