ST. MARY'S UNIVERSITY
BACHELOR OF SCIENCE DEGREE
ENGINEERING SCIENCE

Name:_____ Phone ( )_____
(Last) *(First)*
Address:_____ Date of Entrance_____

FIRST YEAR COURSES

Fall	Hrs	Spring	Hrs
EN1311 Rhetoric & Comp.	3	SE1341 Fund. of Oral Comm.	3
MT2412 Univariate Calc. I	4	PL1310 Exp. to Meaning	3
PY1404 Mechanics & Heat	4	MT2413 Univariate Calc. II	4
EG1301 Engineering Graphics	3	PY 2404 Electricity & Magnetism	4
EG1304 Engineering Programming	3	EG1305 OOP and Design	3

SECOND YEAR COURSES

MT3311 Differential Equations	3	PL2336 Foundational Ethics for Engrs	3
CH1401 General Chemistry I	4	CH1402 General Chemistry II	4
EG2307 Engineering Mechanics	3	EN2356W Literature II	3
EN2355 American Literature I	3	EG2308 Strength of Materials	3
Engineering Science Elective	3	Engineering Science Elective	3

THIRD YEAR COURSES

MT4331 Probability & Statistics . I	3	Social Science I	3
FA1101, 1102, 1103 Fine Arts	3	PL4324 Philosophy III	3
EG3145W Circuits and Systems Lab	1	TH2301 Theol. Foundations	3
EG2306 Principles of Materials Science	3	PO2300 High Tech. & Society	3
EG3345 Circuits and Systems	3	EG3322 Industrial Statistics	3
Engineering Science Elective	3	Engineering Science Elective	3

FOURTH YEAR COURSES

TH33xx Theology	3	Foreign Language II	3
Foreign Language I	3	EG 4396W Senior Design Proj II	3
EG 4395W Senior Design Project I	3	EG2309 Fluid Mechanics	3
EG3335 Operations Research I	3	EG3334 Engineering Economy	3
Engineering Science Elective	3	Social Science II	3
Engineering Science Elective	3	Engineering Science Elective	3

Total Semester Hours: 136

Engineering Science (ES) electives could represent specialization in certain area as follows:
Chemistry: CH 3411, 3412, 3423, 3424, 3433, 3434, 4330.
Computer Engineering: CS 1411, 2320 (formerly 3310), 3340, 4350 + EG 2141, 2152, 2341, 2352, 3363, 3364
Electrical Engineering: EG 2141, 2152, 2341, 2352, 2353, 3156, 3157, 3356, 3357, 3363, 3372.
Environmental: 21 hours from the following list, with adviser's approval
ES 1100L, 1300, 1373, 3303 + BL 1301, 1302, 3481 + CH 3411, 3412, 3423, 3424
Industrial Engineering: 21 hours from the following list, with adviser's approval:
EG 2322, 3316, 3333, 3335, 3336, 4330, 4331, 4332, 4337.
Mathematics: MT 3414, 3323, 3324, 3372, 4351 + 6 hours MT Electives.
Physics: PY 3101, 3301, 3113, 3313 + 9 hours PY Electives.
Pre-Med: BL 1401, 1402, 4451, 4452 + CH 3411, 3412, 3423.

9/2004
(Note: All students must meet Basic Information Proficiency through testing or taking CS 1101, 1102 and 1103)