

BACHELOR OF SCIENCE IN ENGINEERING

(With IPC courses, Entering 2008-09)

Version A - With Course Names

July 2008

PRE-ENGINEERING (49)

MATH 111 Calculus I	MATH 112 Calculus II	MATH 211 Calculus III	MATH 261 Linear Algebra	MATH 308 Differential Equations	CHEM 105 General Chemistry I	PHYS 211 Physics I	PHYS 212 Physics II
ENGR 101 Engineering Graphics	ENGR 102 Intro. to Engineering	ENGR 201 Group Orientation	ENGR 231 Engineering Statics	ENGR 242 Engineering Exp. Methods	ENGR 254 Materials Engineering	ENGR 262 Circuit Analysis	

UPPER DIVISION ENGINEERING (14)

ENGR 288* Project I	ENGR 290 Engineering Economics	ENGR 301 Seminar I	ENGR 302 Seminar II	ENGR 366 Control Systems	ENGR 388* Project II	ENGR 488 Project III	ENGR 489 Project IV
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*Optional course for CE concentration

COMPUTER CONCENTRATION (28)

COSC 181 Computer Program. I	COSC 182 Computer Program. II	COSC 281 Assembly Language
COSC 282 Data Structures	ENGR 340 Analog Electronics	ENGR 342 Microprocessor Applications
ENGR 349 Digital Electronics	ENGR/COSCxxx <i>Elective</i>	ENGR/COSCxxx <i>Elective</i>

ELECTRICAL CONCENTRATION (26)

COSC 181 Computer Program. I	ENGR 340 Analog Electronics	ENGR 342 Microprocessor Applications
ENGR 349 Digital Electronics	ENGR 364 Electrical Devices	ENGR 365 Linear Systems
ENGR 367 Electro-magnetics	ENGR 369 Comm. Systems	

MECHANICAL CONCENTRATION (26)

ENGR 232 Engineering Dynamics	ENGR 333 Mechanics of Materials	ENGR 371 Thermo-dynamics	ENGR 372 Fluid Mechanics
ENGR 373 Instrument. & Measure.	ENGR 374 Heat Transfer	ENGR 381 Mechanical Design	ENGR 384 Manufact. Processes

GENERAL EDUCATION (41-42)

1st Year Seminar IDFY 101	Oral Comm.	Created & Called IDCR 151
Social Science/History	History	Literature
Language I	Language II	Language III/Non-West./Cross-Cult.
Philosophy/Religion	Knowledge of Bible	Christian Beliefs
Intro. to Wellness PHED 101	Physical Fitness	Ethics/World Views/Pluralism
Non-Major Writing Elective		

ELECTIVES

- | | |
|-----------------------------------|--------------------------------|
| COSC 332 Database Concepts | COSC 487 Computer Graphics |
| COSC 333 Database Applications | COSC 490 Topics in Computer |
| COSC 335 Software Engineering | ENGR 364 Electrical Devices |
| COSC 382 Org. and Prog. Languages | ENGR 365 Linear Systems |
| COSC 415 Data Communications | ENGR 367 Electromagnetics |
| COSC 416 Operating Systems | ENGR 369 Communication Systems |

BACHELOR OF SCIENCE IN ENGINEERING

(With IPC courses, Entering 2008-09)

Version C - With Blanks

July 2008

PRE-ENGINEERING (49)

MATH 111	MATH 112	MATH 211	MATH 261	MATH 308	CHEM 105	PHYS 211	PHYS 212
ENGR 101	ENGR 102	ENGR 201	ENGR 231	ENGR 242	ENGR 254	ENGR 262	

UPPER DIVISION ENGINEERING (14)

ENGR 288*	ENGR 290	ENGR 301	ENGR 302	ENGR 366	ENGR 388*	ENGR 488	ENGR 489
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*Optional course for CE concentration

COMPUTER CONCENTRATION (28)

COSC 181	COSC 182	COSC 281
COSC 282	ENGR 340	ENGR 342
ENGR 349	ENGR/COSCxxx	ENGR/COSCxxx

ELECTRICAL CONCENTRATION (26)

COSC 181	ENGR 340	ENGR 342
ENGR 349	ENGR 364	ENGR 365
ENGR 367	ENGR 369	

MECHANICAL CONCENTRATION (26)

ENGR 232	ENGR 333	ENGR 371	ENGR 372
ENGR 373	ENGR 374	ENGR 381	ENGR 384

GENERAL EDUCATION (41-42)

1st Year Seminar IDFY 101	Oral Comm.	Created & Called IDCR 151
Social Science/ History	History	Literature
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Philosophy/Religion	Knowledge of Bible	Christian Beliefs
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ELECTIVES

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| COSC 333 Database Applications | COSC 490 Topics in Computer |
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| COSC 382 Org. and Prog. Languages | ENGR 365 Linear Systems |
| COSC 415 Data Communications | ENGR 367 Electromagnetics |
| COSC 416 Operating Systems | ENGR 369 Communication Systems |