

**Diploma in Engineering with
Three-Year Bachelor of Science PHYS Concentration**
 (typical course pattern; can be altered according to need and preference)

First Year – 30 CREDITS

Fall Term	Winter Term
CHEM 121 <i>Principles of Chemistry I</i>	CHEM 122 <i>Principles of Chemistry II</i>
ENGR 121 <i>Calculus I for Engineers</i>	ENGR 122 <i>Calculus II for Engineers</i>
ENGR 128 <i>Engineering Design and Graphics</i>	ENGR 132 <i>Technical Communications</i>
ENGR 147 <i>Computer Programming</i>	ENGR 136 <i>Statics</i>
PHYS 121 <i>Physics for the Physical Sciences & Engineering I</i>	PHYS 122 <i>Physics for the Physical Sciences & Engineering II</i>

Second Year – 30 CREDITS

Fall Term	Winter Term
Writing Course (Or one 6-credit, full-year course <-----> or continuation of 6-credit, full-year course)	Writing Course -----> or continuation of 6-credit, full-year course)
ENGR 223 <i>Linear Algebra for Engineers</i>	ENGR 222 <i>Calculus III for Engineers</i>
ENGR 221 <i>Differential Equations for Engineers</i>	ENGR 224 <i>Probability and Statistics for Engineers</i>
ENGR 237* <i>Basic Electric Circuits Theory</i>	PHYS 201
PHYS 241	PHYS 242

Third Year – 30 CREDITS

Fall Term	Winter Term
ENGR 211* <i>Thermo-Fluids I</i>	ENGR 232** <i>Engineering Design and Communications II</i>
ENGR 242 <i>Engineering Economics</i>	Discipline-specific course
PHYS Elective <i>300-level or above</i>	Discipline-specific course
PHYS Elective <i>300-level or above</i>	PHYS Elective <i>300-level or above</i>
Discipline-specific course OR PHYS Elective (3xx or 4xx level) <i>Depending on discipline</i>	Discipline-specific course OR PHYS Elective (3xx or 4xx level) <i>Depending on discipline</i>

* Students who plan to pursue a discipline that requires the discipline-specific ENGR 212 may find it beneficial to take 211 and 212 in the same year (normally year three). However, students may choose to do ENGR 211 in year two and ENGR 237 in year three if they prefer.

** ENGR 232 has to be completed in third year because of necessary prerequisites, and because it is the capstone course for the program.

Note: A writing course can be 6 credits from one subject or 3 credits from two different subjects. Allowable subjects and courses can be found in the Academic Calendar. Students who wish to take a writing course not listed there must obtain approval from the engineering department chair.