

**Part II ELECTIVE COURSES FOR BA IN CHEMISTRY (Other electives by petition to the CUA)**  
**GROUP A Elective Courses :**

CHEMISTRY:	CHEM 423, 513, 515, 546, 551, 552, 584, 585 388, 396 or 496, 499
BIOCHEMISTRY:	BIOCHEM 423(spring/fall)/424(spring only) (General Biochem Lecture 1 and 2, respectively) Prereq: 261/262 or 265/266 and Molecular Biology BIOCH 275
CHEM. ENG.	290A – Intro to Energy Engineering (fall only) Prereq: 2 courses in chem, bio or physics 571 – Physical and Chemical Processing of Materials (spring only) Prereq: M&I-Eng 201 (Mech&Indust Eng; no prereq for this course)
PHYSICS:	PHYS 531 – Electronics for Scientists I with Lab (spring only) Prereq: Phys 422 (general physics prereq for 422)
POLYMER SCIENCE	PSE 501 – Intro to Polymer Science (spring only) Prereq: 1 semester orgo and 1 semester P-Chem (chem 471 ok)

**GROUP B Elective Courses \*:**

BIOCHEMISTRY:	BIOCHEM 276 – Intro Biochem Lab (3 credits, spring and fall) Prereq: BIOCHEM 275 or 285 with B- or better BIOCHEM 426 – Gen Biochem lab w/lecture (4 credits spring and fall) Prereq: Same as for 276, and BIOCHEM 276 with C- or better
GEOLOGY	GEOLOGY 311 – Mineralogy lecture w/lab (4 credits, fall only) Prereq: chem-111 or 121H GEOLOGY 321 – Petrology w/lab (4 credits, spring only) Prereq: GEOLOGY 311
GEOSCIENCES:	GEO-SCI 519 – Aqueous and Env Geochemistry w/Lab (4cr, spring) Prereq: chem-111/112 or 121H/122H
EDUCATION:	EDUC 706 – Science Teaching Workshop (3cr, spring only)
ENVRN SCI	ENVIRSCI 504 – Air Pollution & Climate Change Biology Prereq: Bio 151 and chem 111/121H ENVIRSCI 515 – Microbiology of the Soil (3 cr, fall only) Prereq: chem 261/265 ENVIRSCI 575 – Environmental Soil Chemistry w/lab (4cr, fall only) Prereq: chem 111/121H and STOCKSCH 102 (soil science) ENVIRSCI 585 – Inorg Contam in Soil, Water, and Sediment (3cr, spring) Prereq: chem 112/122H (chem 341 recommended)
FOOD SCIENCE:	FOOD SCI 541 - Food Chemistry 1 (3 credits spring only) Prereq: chem-262/266 FOOD SCI 542 - Food Chemistry 2 (3 credits fall only) Prereq: FOOD SCI 541 FOOD SCI 544 – Food Chemistry Lab (1 credit, fall only) Prereq: Concurrent enrollment w/FOOD SCI 541 FOOD SCI 575 – Elements of Food Processing Engineering (3 cr, spring) FOOD SCI 741 – Lipid Chemistry (3 credits, spring only) Prereq: chem-262/266
HISTORY:	HIS 397ST – Sci., Tech., and War in 20 <sup>th</sup> cent. US/Eur, (3 cr, spring)
PUBLIC HEALTH:	PUBHLTH 420 or 490PI – The DNA Experience (4 credits, fall only) Prereq: BIO-151