### Part II ELECTIVE COURSES FOR BA IN CHEMISTRY (Other electives by petition to the CUA)

**GROUP A Elective Courses:**

<table>
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<tr>
<th>Course</th>
<th>Prereq</th>
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<tr>
<td>CHEMISTRY: CHEM 423, 513, 515, 546, 551, 552, 584, 585 388, 396 or 496, 499</td>
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<tr>
<td>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</td>
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<tr>
<td>CHEM. ENG. 290A – Intro to Energy Engineering (fall only) Prereq: 2 courses in chem, bio or physics</td>
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<tr>
<td>571 – Physical and Chemical Processing of Materials (spring only) Prereq: M&amp;I-Eng 201 (Mech&amp;Indust Eng; no prereq for this course)</td>
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<tr>
<td>PHYSICS: PHYS 531 – Electronics for Scientists I with Lab (spring only) Prereq: Phys 422 (general physics prereq for 422)</td>
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<tr>
<td>POLYMER SCIENCE PSE 501 – Intro to Polymer Science (spring only) Prereq: 1 semester orgo and 1 semester P-Chem (chem 471 ok)</td>
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**GROUP B Elective Courses**:  

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<th>Course</th>
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<tr>
<td>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</td>
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<tr>
<td>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</td>
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<tr>
<td>GEOSCIENCES: GEO-SCI 519 – Aqueous and Env Geochemistry w/Lab (4cr, spring) Prereq: chem-111/112 or 121H/122H</td>
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<td>EDUCATION: EDUC 706 – Science Teaching Workshop (3cr, spring only)</td>
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<td>ENVRN SCI ENVIRSCI 504 – Air Pollution &amp; 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 STOCSCH 102 (soil science) ENVIRSCI 585 – Inorg Contam in Soil, Water, and Sediment (3cr, spring) Prereq: chem 112/122H (chem 341 recommended)</td>
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<td>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</td>
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<td>HISTORY: HIS 397ST – Sci., Tech., and War in 20th cent. US/Eur, (3 cr, spring)</td>
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<td>PUBLIC HEALTH: PUBHLTH 420 or 490PI – The DNA Experience (4 credits, fall only) Prereq: BIO-151</td>
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