## CHEMISTRY MAJOR

Concentration III: American Chemical Society Accredited Materials Chemistry Program

Typical Schedule (TENTATIVE - Expect changes, consult with your advisor)

First Year Fall [14-17 cr]	First Year Spring [15-16 cr]
CHEM 131 <sup>ap, pph</sup> (General Chemistry I) [3] CHEM 135L <sup>pph</sup> (Special Gen Chem Lab I) [1] MATH 235 <sup>pph</sup> (Calculus I) [4] GenEd Cluster 1 [3] WRTC 103 &/or other Gened [3-6]	CHEM 132 <sup>ap, pph</sup> (General Chemistry II) [3] CHEM 136L <sup>pph</sup> (Special Gen Chem Lab II) [2] MATH 236 (Calculus II) [4] Gened Cluster 1 [3] GenEd <sup>pph</sup> [3-4]
<sup>ap</sup> If AP Chem = 3-5, CHEM 131/132 [6]	<sup>ap</sup> If CHEM 131/132 is complete, consider CHEM 270 [3] <sup>pph</sup> BIO 140 (Foundations of Biology I) [4]
Second Year Fall [15-17 cr]	Second Year Spring [16 cr]
CHEM 241 <sup>pph</sup> (Organic Chemistry I) [3] CHEM 287L <sup>pph</sup> (Inorganic/Organic Lab I) [2] MATH 237 (Calculus III) [4] PHYS 240 <sup>pph</sup> (University Physics I) [3] PHYS 240L <sup>pph</sup> (University Physics Lab I) [1] GenEd &/or electives <sup>e,pph</sup> [2-4]	CHEM 242 <sup>pph</sup> (Organic Chemistry II) [3] CHEM 270 (Inorganic Chemistry I) [3] CHEM 288L (Inorganic/Organic Lab II) [2] MATH 238 (Linear Algebra w/ Diff Eq) [4] PHYS 250 <sup>pph</sup> (University Physics II) [3] PHYS 250L <sup>pph</sup> (University Physics Lab II) [1]
<sup>e</sup> Suggestions: Research [1-2], Bio 150 <sup>pph</sup> (Foundations II)[4]	Third Yoor Spring [45 47 or]
Third Year Fall [15-17 cr] CHEM 351 (Analytical Chemistry) [4] CHEM 361 <sup>pph</sup> (Biochemistry I) [3] CHEM 375 (Intro to Materials Science) [3] CHEM 481 (Literature & Seminar I) [1] CHEM 445 (Polymer Chem) [3] –odd yrs only CHEM 445L (Polymer Lab) [1] –odd yrs only GenEd &/or electives <sup>e</sup> [1-6]	Third Year Spring [15-17 cr] CHEM 331 (Physical Chemistry I) [3] CHEM 352 (Instrumental Analysis) [3] CHEM 352L (Instrumental Analysis Lab) [2] PHYS 381 (Materials Characterization) or CHEM 480P (Science of Small) [4] CHEM 482 (Literature & Seminar II) [1] GenEd &/or electives <sup>e</sup> [2-4]
<sup>e</sup> Suggestions: Research [1-2], MATH 220 <sup>pph</sup> [3] All ACS programs require 400 lab hours; 360 met by Core and ACS Mats Chem courses. Remainder can be met by research or additional lab course.	<sup>e</sup> Suggestions: Research [1-2]
Fourth Year Fall [15-17 cr]	Fourth Year Spring [15-17 cr]
CHEM 432 (P Chemistry II) [3] CHEM 445 (Polymer Chem) [3] –odd yrs only CHEM 445L (Polymer Lab) [1] –odd yrs only	GenEd &/or electives <sup>e</sup>
ISAT 432 (Materials Design) [3] GenEd &/or electives <sup>e</sup> [5-9]	

<sup>e</sup> Chemistry elective courses include: Research (CHEM 390,497,499), Instructional Experiences (CHEM 315), Chem Hazards (CHEM 325-F,odd), Environmental Chem (CHEM 353-Sp,odd), Environmental Field Camp (CHEM 354-Su), Geochem (CHEM 355-F), Biochem II (CHEM 362, 366L-Sp), Intermediate Organic (CHEM 440-F,even), Nuclear (CHEM450,450L-Sp,even), Lasers (CHEM 455-F even), Inorganic II (CHEM 470-F), etc. [See Undergrad Catalog]

<sup>pph</sup>Most pre-Professional health programs (pre-med, pre-pharm, etc) require: BIO 140,150, CHEM 131,132,135L (or 131L),136L (or 132L), 241, 242, 242L or 287L, MATH 220, 235, PHYS 240, 240L, 250, 250L.

**PPH recommendations:** CHEM 361 and additional Bio courses. **Pre-med GenEd recommendations:** PHIL 120 (C1CT), SOCI 110 (C4GE), PSYC 101 (C5SD). **Pre-Pharm GenEd recommendations:** PHIL 150 (C1CT), SCOM 122 (C1HC), ECON (C4GE), PSYC 101 or 160 (C5SD). [See Undergrad Catalog]