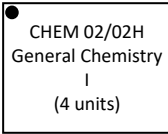

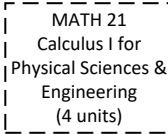
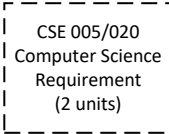
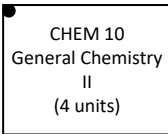
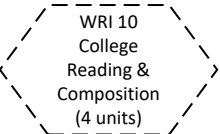
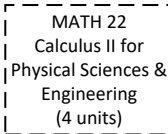
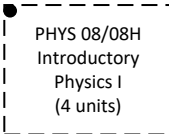
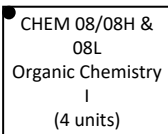
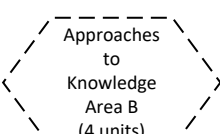
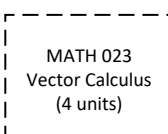
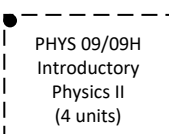
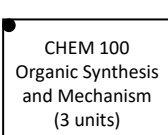
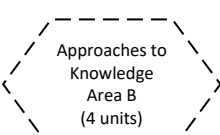
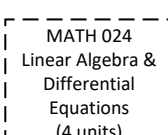
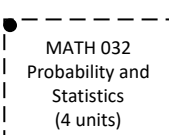
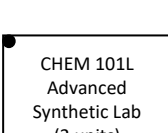
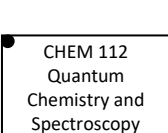
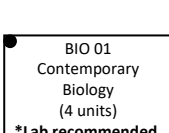
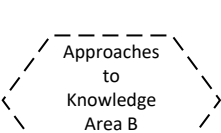
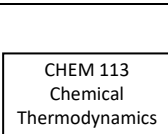
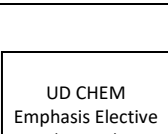
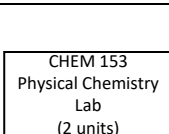
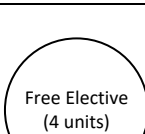
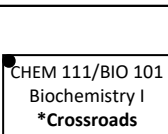
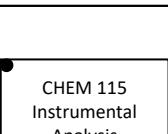
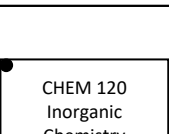
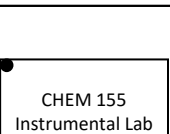
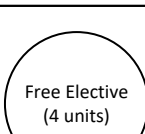
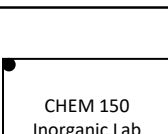
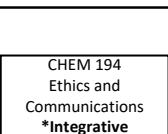
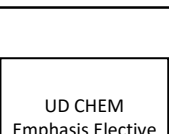
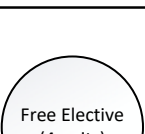
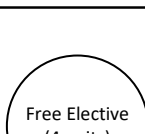
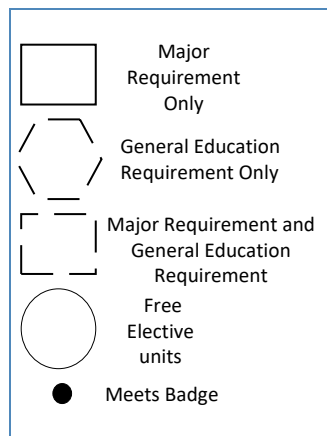


## Sample Plan and Course Flow Chart Template – Chem-Chem

		Sample Plan and Course Flow Chart Template – Chem-Chem				
Year 1	Semester 1 (14 Units)	 <p>CHEM 02/02H General Chemistry I (4 units)</p>	 <p>SPARK Seminar (4 units)</p>	 <p>MATH 21 Calculus I for Physical Sciences &amp; Engineering (4 units)</p>	 <p>CSE 005/020 Computer Science Requirement (2 units)</p>	
	Semester 2 (16 Units)	 <p>CHEM 10 General Chemistry II (4 units)</p>	 <p>WRI 10 College Reading &amp; Composition (4 units)</p>	 <p>MATH 22 Calculus II for Physical Sciences &amp; Engineering (4 units)</p>	 <p>PHYS 08/08H Introductory Physics I (4 units)</p>	
Year 2	Semester 3 (16 Units)	 <p>CHEM 08/08H &amp; 08L Organic Chemistry I (4 units)</p>	 <p>Approaches to Knowledge Area B (4 units)</p>	 <p>MATH 023 Vector Calculus (4 units)</p>	 <p>PHYS 09/09H Introductory Physics II (4 units)</p>	
	Semester 4 (15 Units)	 <p>CHEM 100 Organic Synthesis and Mechanism (3 units)</p>	 <p>Approaches to Knowledge Area B (4 units)</p>	 <p>MATH 024 Linear Algebra &amp; Differential Equations (4 units)</p>	 <p>MATH 032 Probability and Statistics (4 units)</p>	
Year 3	Semester 5 (14 Units)	 <p>CHEM 101L Advanced Synthetic Lab (2 units)</p>	 <p>CHEM 112 Quantum Chemistry and Spectroscopy (4 units)</p>	 <p>BIO 01 Contemporary Biology (4 units) <b>*Lab recommended, not required</b></p>	 <p>Approaches to Knowledge Area B (4 units)</p>	
	Semester 6 (14 Units)	 <p>CHEM 113 Chemical Thermodynamics and Kinetics (4 units)</p>	 <p>UD CHEM Emphasis Elective (4 units)</p>	 <p>CHEM 153 Physical Chemistry Lab (2 units) <b>*Writing in Discipline</b></p>	 <p>Free Elective (4 units)</p>	
Year 4	Semester 7 (16 Units)	 <p>CHEM 111/BIO 101 Biochemistry I <b>*Crossroads Course</b> (4 units)</p>	 <p>CHEM 115 Instrumental Analysis (3 units)</p>	 <p>CHEM 120 Inorganic Chemistry (3 units)</p>	 <p>CHEM 155 Instrumental Lab (2 units)</p>	 <p>Free Elective (4 units)</p>
	Semester 8 (15 Units)	 <p>CHEM 150 Inorganic Lab (2 units)</p>	 <p>CHEM 194 Ethics and Communications <b>*Integrative Culminating Experience</b> (1 unit)</p>	 <p>UD CHEM Emphasis Elective (4 units)</p>	 <p>Free Elective (4 units)</p>	 <p>Free Elective (4 units)</p>



- This sample plan demonstrates the recommended sequencing and timing of the required and elective components within the major.
- In many cases, a student's academic background will require variations in the timing of the coursework listed in the plan.
- All students are expected to work with their academic advisor to find their best pathway through the degree requirements of their chosen program.