Side-by Side Comparison of All Tracks

Thesis Track	Credit Hours	Non-Thesis Tack	Credit Hours	Professional Track	Credit Hours
Core program Graduate courses from three different areas of chemistry under advisement	9	Core program Graduate courses from three different areas of chemistry under advisement	9	Core program Graduate courses from three different areas of chemistry under advisement	9
Electives	9-14	Electives	17	Electives	12
Seminar CHE596	1	Seminar CHE596	1	Seminar CHE596	1
Research CHE598	6-11	Research CHE597 or 599	3	Internship GST691	3
				Business Courses Required: MBA517 Electives:MBA501 MBA502 MBA503 MBA505 MBA506 MBA515 MBA516	9
TOTAL	**30**	TOTAL	**30**	TOTAL	**34**

1. Elective courses may be taken in departments other than chemistry. Any course outside of the department must be approved by the chemistry graduate committee. All elective courses must be selected, under advisement.
2. In the thesis option all students are required to take a minimum of six accumulated credit hours of Chemistry 598, Thesis. A maximum of seventeen credit hours of thesis may be taken if approved by the Departmental Graduate Advisory Committee. The thesis involves an original research problem and a formal dissertation. Students are required to give an oral presentation of their work.
3. All students are required to take one credit hour of seminar.
4. After completing fifteen credit hours, the student is evaluated by the department with respect to recommendation for degree candidacy provided the student has demonstrated competency in four areas of chemistry.
5. All students are required to pass qualifying examinations in four of five main areas of chemistry that include, analytical, biochemistry, inorganic, organic and physical.
6. The GST 691 Internship requirement in the professional option is required to be a minimum of eight weeks, forty hours per week long. Students are responsible for finding an internship placement with the help of the Office of Experience-Based Education. Students are required to write a report and to give a presentation after the internship.
7. A Peace Corps experience, which must be approved by the chemistry graduate committee, related to student's area of study will satisfy the internship requirement of GST691.

Courses based on areas of disciplines:

Analytical Chem	Organic Chem	Inorganic Chem	Biochemistry	Physical Chem
CHE525 – Advanced analytical	CHE540 – Advanced Organic Spectroscopy	CHE552 – Advanced inorganic	CHE562- Advanced Biochemistry	CHE546 - Chemical Kinetics
CHE526 – Analytical Spectroscopy	CHE536 – Advanced Organic Chemistry	CHE558 – crystallography	CHE571- Proteomics	CHE544 - Thermodynamics
CHE528 – Bioanalytical Chemistry	CHE537 – Advanced Organic Chemistry II	CHE548 – Group Theory	CHE528 – Bioanalytical Chemistry	CHE545 – Computational Methods in Chemistry
CHE573 – Environmental Chemistry	CHE550 – Medicinal Chemistry	CHE545 – Computational Methods in Chemistry	CHE563 - Diabetes	CHE549- Special topics in Physical Chemistry
CHE529 – Special topics in Analytical chemistry	CHE556- Nanochemistry	CHE556- Nanochemistry	CHE561- Advanced Biochemistry	
	CHEXXX – Polymers Chemistry			
	CHE539- SpecialTopics in Organic chemistry	CHE559 – Special Topics in Inorganic chemistry	CHE501 – Special Topics in Advanced Chemistry	