

## SUGGESTED CORE COURSES FOR M.S. STUDENTS IN EACH AREA OF EMPHASIS

### General Comments:

- 1) Take two courses (or 6 units) in your area of interest per semester. Do not choose courses based on failing orientation exams- you have two attempts to pass the exams.
- 2) It is STRONGLY advised students attend the departmental seminars – particularly 1<sup>st</sup> year students. These are an important part of your development as a chemist. They are held 4-5pm Friday afternoons.

### Analytical Chemistry

Units	Course
2	790 (Research Seminar)
1	791 (Literature Seminar)
1	792 (Bibliography)
3	799A (Thesis)
3	751 (Separation Science)
3	752 (Mass Spectrometry)
3	753 (Analytical Spectroscopy)
3	754 (Electroanalytical Chemistry)

### Inorganic Chemistry

Units	Course
2	790 (Research Seminar)
1	791 (Literature Seminar)
1	792 (Bibliography)
3	799A (Thesis)
3	722 (Spectroscopy)
3	520B (Inorganic Chemistry II)
3	571 (Environmental Chemistry)

### Physical Chemistry

Units	Course
2	790 (Research Seminar)
1	791 (Literature Seminar)
1	792 (Bibliography)
3	799A (Thesis)
3	711 (Chemical Thermodynamics)
3	712 (Chemical Kinetics)
3	713 (Quantum Chemistry)

### Biochemistry

Units	Course
3	790 (Research Seminar)
1	791 (Literature Seminar)
1	792 (Bibliography)
3	799A (Thesis)
3	560A (General Biochemistry)
3-6	560B, 562, 563 or 564 (General Biochemistry)
3	567 (Biochemistry Lab)
2	762 (Enzymology)
2	763 (Cellular Regulation)
2	764 (Membrane Biochemistry)

### Organic Chemistry

Units	Course
2	790 (Research Seminar)
1	791 (Literature Seminar)
1	792 (Bibliography)
3	799A (Thesis)
3	531 (Advanced Synthesis)
3	537 (Organic Qualitative Analysis)
3	730 (Advanced Topics in Organic Chem.)
3	731 (Mechanisms of Organic Reactions)
3	732 (Advanced Organic Chemistry)

**Proposed course outline: MS students fill this out together with your research advisor**

1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester		3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester		5 <sup>th</sup> Semester		6 <sup>th</sup> Semester	
Units	course	units	course	units	course	units	Course	units	course	units	course

**= 30 units total for degree**

**Research Advisor Comments:** \_\_\_\_\_