Worksheet for MS in chemistry (non-thesis), industry students
The Department offers a broadly based non-research Master of Science, MS, degree that is for part-time students (usually working in industry). This course of study requires a total of 30 hours of graduate credit with a minimum of 24 hours in chemistry. See the departmental website for more description on the required courses. The core curriculum involves 12 hours consisting of two courses from each of two primary focus areas of advanced chemistry. The remaining hours can come from other graduate chemistry courses (at least 12-18 hrs) and graduate courses in other disciplines such as business and management, mathematics, and computer programming (no more than 6 hrs). 9 hours of 400-level courses can be counted towards the MS degree.

Core curriculum (12 hrs)
A core curriculum consisting of 2 courses from each of the 2 primary focus areas (6 hrs from each area).

1. Synthesis & Materials Chemistry

   CHEM 513 Inorganic Chemistry (3)
   CHEM 515 Organometallic Chemistry (3)
   CHEM 517 Solid State Chemistry (3)
   CHEM 519 Special Topics in Inorganic Chemistry (3)
   CHEM 540 Advanced Organic Chemistry (3)
   CHEM 541 Synthetic Organic Chemistry (3)
   CHEM 544 Polymer Chemistry (3)
   CHEM 545 Medicinal Chemistry (3)
   CHEM 549 Organic Spectroscopy (3)
   CHEM 551 Fundamentals/Design of Nanoarchitectures (3)


   CHEM 512 Chemical Applications Of Group Theory (3)
   CHEM 520 Instrumental Analysis (3)
   CHEM 521 Environmental Chemistry (3)
   CHEM 523 Chemical Sensors (3)
   CHEM 524 Electroanalytical Chemistry (3)
   CHEM 525 Bioanalytical Methods of Analysis (3)
   CHEM 526 Analytical Separations (3)
   CHEM 527 Analytical Spectroscopy (3)
   CHEM 529 Special Topics in Analytical Chemistry (3)
   CHEM 533 Advanced Physical Chemistry (3)
   CHEM 534 Advanced Thermodynamics (3)
   CHEM 535 Elements of Surface and Colloid Science (3)
   CHEM 537 Computational Chemistry (3)
   CHEM 539 Special Topics in Physical Chemistry (3)
   CHEM 540 Advanced Organic Chemistry (3)
   CHEM 551 Fundamentals/Design of Nanoarchitectures (3)

List 2 of the courses (course #) you have taken from in the synthesis/materials core:

1) ________ 2) ________ (6 hrs)

List 2 of the courses (course #) you have taken from in the analytical/physical methods core:

1) ________ 2) ________ (6 hrs)

Chemistry Electives: must be 12 hrs or more. List the other chemistry courses you have taken along with the total # of hrs. 9 hours of 400-level chemistry can be counted.

1) ________ 2) ________ 3) ________ 4) ________ 5) ________ 6) ________

# of chemistry elective hrs ________ (Should be between 12 and 18 hrs)
Other graduate level courses: list courses from other disciplines (business, computer science, etc) that you will be applying towards your degree (these are not necessary and cannot be more than 6 hrs total)

1) ________    2) ________

# of other hrs ________ (should be between 0-6)

Special Study for Examinations. You should sign up for CHEM 595 for 0 credit hours in your last semester (the semester you wish to graduate).

Semester that CHEM 595 was taken ________                     # hrs ________ (must be 0)

Total # of hrs ________ (should be 30 or more)