

# Chemical Engineering

*Elective Focus Area*

## Five Year BS/MS

### 1. Courses satisfying BS Requirements only

#### General Education Components (15 semester hours)

*Courses consistent with career goals and interests.*

#### Statistics Elective (3 semester hours)

22S:039 Probability and Statistics for Engineering and Physical Sciences 3 s.h.

#### Advanced Chemistry Lab (3 or 4 semester hours)

Advanced Chemistry Lab from same sequence chosen for lectures 3 or 4 s.h.

#### Free Electives (9 (or 8) semester hours of engineering or science courses consistent with MS research topic)

*Note: Advanced Chemistry Lab semester hrs plus Free Electives semester hours must total 12 s.h.*

#### Chemical Engineering Core courses (86 semester hours)

### 2. Cross credited courses satisfying both BS and MS Requirements (12 s.h.)

#### Free Electives (3 semester hours for cross-crediting)

52:215 Intro to Lit Review & Proposal Writing 3 s.h.

#### Advanced Chemistry Lecture Electives (6 semester hours for cross-crediting)

*(Choose the 100 level Analytical, Physical, or Biochemical sequence as described on CBE Website)*

Advanced Chemistry Course 3 s.h.

Advanced Chemistry Course 3 s.h.

#### Engineering Elective (3 semester hours for cross-crediting)

*(one of the following courses)*

52:117 Intermediate Thermodynamics 3 s.h.

52:217 Transport Phenomena I 3 s.h.

### 3. Courses satisfying MS Requirements only

#### Remaining Graduate Program Core Courses

Kinetics Course requirement per Graduate Handbook 3 s.h.

52:117 / 217 Other course not taken as Engineering elective above 3 s.h.

#### Advanced Graduate Program Electives (6-12 semester hours)

*(6 hrs if thesis option, 12 hours if non-thesis option, course selection in consultation with advisor)*

#### MS Research (0-6 semester hours)

*(6 hrs if thesis option, 0 hrs if non-thesis option)*