Academic Plans

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Chemical and Biochemical Engineering, PhD

Course Title Hours
Academic Career
Any Semester
72 s.h. must be graduate level coursework; graduate transfer credits allowed upon approval. More information is included in the General Catalog and on department website. a

First Year
Fall
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1
CBE:5105 Introduction to Literature Review and Proposal Writing 3
CBE:5120 Data Science in Chemical and Engineering Systems 3
ENGR:7270 Engineering Ethics c 1
Elective course d 3

Spring
CBE:5425 or CBE:3205 or CBE:5315 Atmospheric Chemistry and Physics e or Introduction to Biochemical Engineering or Polymer Chemistry 3
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1
CBE:5110 Intermediate Thermodynamics 3
Elective course d 3
Elective course d 3

Hours 11

Second Year
Fall
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1
CBE:7999 Research: Chemical and Biochemical Engineering PhD Dissertation 3
Elective course d 3
Elective course d 3

Hours 10

Spring
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1
CBE:7999 Research: Chemical and Biochemical Engineering PhD Dissertation 8

Hours 9

Third Year
Any Semester
Exam: Doctoral Comprehensive Exam f

Fall
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1
CBE:7999 Research: Chemical and Biochemical Engineering PhD Dissertation 8

Hours 9

Fourth Year
Fall
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1

Hours 1

Spring
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1

Exam: Doctoral Final Exam g

Hours 1

Fifth Year
Fall
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1

Hours 1

Spring
CBE:5000 Seminar in Chemical and Biochemical Engineering b 1

Exam: Doctoral Final Exam g

Hours 1

Total Hours 72

a Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information.

b Students must take this course each semester in residence.

c Must be completed during first semester.

d Work with faculty advisor to determine appropriate graduate coursework and sequence.

e CBE:5315 is typically offered only during fall semesters .

f Complete within three years of entering program.
Dissertation defense.