

Chemical and Biochemical Engineering, PhD

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		
Hours		0
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
Hours		11
Spring		
CBE:5315 or CBE:3205 or CBE:5425	Polymer Chemistry ^e or Introduction to Biochemical Engineering or Atmospheric Chemistry and Physics	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		13
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:5115	Transport Phenomena I	3
CBE:7999	Research: Chemical and Biochemical Engineering PhD Dissertation	6
Hours		10

Third Year		
Any Semester		
Exam: Doctoral Comprehensive Exam ^f		
Hours		0

Fall		
CBE:5000	Seminar in Chemical and Biochemical Engineering ^b	1
CBE:7999	Research: Chemical and Biochemical Engineering PhD Dissertation	8
Hours		9

Spring		
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
CBE:7999	Research: Chemical and Biochemical Engineering PhD Dissertation	6
Hours		7

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

g Dissertation defense.