

# Chemical and Biochemical Engineering, MS

## 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, MS

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
30 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. <sup>a</sup>		
<b>Hours</b>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
CBE:5100	Graduate Professional Development Seminar <sup>b</sup>	1
CBE:5104 or CBE:5105	Introduction to Literature Review and Technical Writing <sup>c</sup> or Introduction to Literature Review and Proposal Writing	3
CBE:5120	Data Science in Chemical and Engineering Systems <sup>c</sup>	3
ENGR:7270	Engineering Ethics <sup>d</sup>	1
Elective course <sup>e</sup>		3
<b>Hours</b>		<b>11</b>
<b>Spring</b>		
CBE:5425 or CBE:5315 or CBE:3205	Atmospheric Chemistry and Physics <sup>f</sup> or Polymer Chemistry or Introduction to Biochemical Engineering	3
CBE:5100	Graduate Professional Development Seminar <sup>b</sup>	1
CBE:5110	Intermediate Thermodynamics <sup>c</sup>	3
Elective course <sup>e</sup>		3
<b>Hours</b>		<b>10</b>
<b>Second Year</b>		
<b>Fall</b>		
CBE:5100	Graduate Professional Development Seminar <sup>b</sup>	1
Elective course <sup>e</sup>		3
Elective course <sup>e</sup>		3
<b>Hours</b>		<b>7</b>
<b>Spring</b>		
CBE:5100	Graduate Professional Development Seminar <sup>b</sup>	1

CBE:5115	Transport Phenomena I <sup>c</sup>	3
Elective course <sup>e</sup>		3
<b>Hours</b>		<b>7</b>
<b>Total Hours</b>		<b>35</b>

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 CBE:5100 each semester in residence; credit from this course does not apply toward the hours required for the degree.

c Must be taken on an A-F graded basis.

d Students must complete ENGR:7270 during their first semester; credit from this course does not apply toward the hours required for the degree.

e Complete 15 s.h. of elective courses numbered 3000 or above; must be taken on an A-F graded basis. Students supplement the core curriculum with electives tailored to their interests and chosen in consultation with their advisor.

f Must be taken on an A-F graded basis. Note: CBE:5315 is typically offered only during fall semesters.