Chemical Engineering

Contribution of Required ECH/ECM Courses to Student Outcomes

Program Outcome	ECM 5	ECM 6	ECH 80	ECH 51	ECH 140	ECH 141	ECH 142	ECH 143	ECH 146	ECH 152A	ECH 152B	ECH 155A	ECH 155B	ECH 157	ECH 158A	ECH 158B	ECH 158C
a. an ability to apply knowledge of mathematics, science, and engineering	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
b. an ability to design and conduct experiments, and to analyze and interpret data	X	X										X	X				
c. an ability to design processes to meet desired performance specifications							X		X		X			X	X	X	X
d. an ability to function effectively on teams												X	X				X
e. an ability to use engineering methods to identify, formulate, and solve engineering problems	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
f. an ability to recognize their professional and ethical responsibilities			X										X		X	X	X
g. an ability to communicate proficiently in written and oral form			X									X	X				X
h. an ability to understand the impact of engineering solutions in a global and societal context			X									X	X		X	X	X
i. an ability to engage in life-long learning			X	X		X	X				X	X	X	X	X	X	X
j. an ability to understand contemporary issues impacting the society and the profession			X								X				X	X	X
k. an ability to use the techniques, skills, and modern engineering tools necessary engineering practice	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X