

A SURVEY ON EMERGING TECHNOLOGIES

IN CHEMICAL ENGINEERING

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SURVEY ON EMERGING TECHNOLOGIES

IN CHEMICAL ENGINEERING

Chemical engineering is experiencing a change. There is a sharp decrease in demand for B.S. chemical engineers by the chemical and petrochemical industries. Decreased demand for gasoline and refined petroleum pro-

ducts has shut down 104 refineries in the United States since 1980, leaving about 190 in operation. Unemployment in Gulf Coast cities, whose economy is strongly dependent on oil, hovers at 13%, almost twice the national average. Finally, freshman enrollment in chemical engineering has decreased by 50% between 1980 and 1984.

Additional employers of chemical engineers have

TABLE 1  
BIOTECHNOLOGY

Courses	
Graduate	3
Senior	50
Junior	3
	—
	56
Elective	52
Required	1
Times Taught	<u>1980-85</u>
Never	8
1	9
2	10
3	10
4	2
5	15

TABLE 2  
MICROELECTRONIC MATERIALS

Courses	
Graduate	2
Senior	18
Junior	6
	—
	23
Elective	21
Required	0
Times Taught	<u>1980-85</u>
Never	5
1	7
2	7
3	2
4	0
5	1

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