

CHEMICAL ENGINEERING 128-HOUR CURRICULUM WORKSHEET

Biomolecular Engineering Concentration

FRESHMAN YEAR						
First Semester		Credit Hours	Grade Earned	Second Semester		Grade Earned
CH 1211	Inv. in Chemistry	1		CH 1221	Inv. in Chemistry	1
CH 1213	Fund. of Chemistry	3		CH 1223	Fund. of Chemistry	3
CHE 1101	CHE Freshman Seminar	1		CHE 2213	CHE Analysis	3
EN 1103	English Comp. I	3		EN 1113	English Comp. II	3
MA 1713	Calculus I	3		MA 1723	Calculus II	3
BIO 1134	Biological Sciences I	4		PH 2213	Physics I	3
	Total	15			Total	16
SOPHOMORE YEAR						
First Semester		Credit Hours	Grade Earned	Second Semester		Grade Earned
CHE 2114	Mass and Energy Balances	4		CHE 3113	CHE Thermo I	3
CHE 3203	Fluid Flow Ops*	3		MA 2743	Calculus IV	3
MA 2733	Calculus III	3		BIO 1144	Biological Sciences II	4
PH 2223	Physics II	3		CH 4521	Organic Chem Lab II	1
CH 4511	Organic Chem. Lab I	1		CH 4523	Organic Chemistry II	3
CH 4513	Organic Chemistry I	3			Social Science Elective	3
	Total	17			Total	17
JUNIOR YEAR						
First Semester		Credit Hours	Grade Earned	Second Semester		Grade Earned
CHE 3123	CHE Thermo II	3		CHE 3213	Heat Transfer Ops**	3
MA 3253	Differential Equations	3		CHE 3223	Mass Transfer Ops**	3
IE 3913	Engineering Economy I	3		BIO 3304	General Microbiology	4
	Adv. Science Elective	3		GE 3513	Technical Writing	3
	Humanities Elective	3			Humanities Elective	3
	Total	15			Total	16
SENIOR YEAR						
First Semester		Credit Hours	Grade Earned	Second Semester		Grade Earned
CHE 4113	CHE Reactor Design*	3		CHE 4223	Process Controls**	3
CHE 4134	CHE Process Design*	4		CHE 4233	CHE Plant Design**	3
CHE 3222	CHE Lab I*	2		CHE 3232	CHE Lab II**	2
CHE 3413	Engineering Materials*	3			Engineering Topics Elective	3
BCH 4603	General Biochemistry I	3			Social Science Elective	3
					Fine Arts Elective	3
	Total	15			Total	17

* Taught during fall semester only

** Taught during spring semester only

Engineering Topics Elective: Choose 1 of the following: CHE 4313, Transport Phenomena; EM 2413, Engineering Mechanics I; ECE 3183, Electrical Engineering Systems; ISE 4613, Engineering Statistics I

Advanced Science Elective: Choose PH 2233 (premedical students); 3 hour advanced biology course (pre-veterinary students); or 3 hour biotechnology course from an engineering department (Biomolecular engineering students)