



جامعة حفر الباطن
University of Hafr Al Batin
كلية الهندسة

Chemical Engineering Department

Degree Plan & Flow Chart

Vision

To be recognized for outstanding education, quality research and engaged community service nationally and regionally.

Mission

To provide students with excellent quality education and training in order to satisfy the growing need for Chemical Engineering graduates in the kingdom's key industrial sectors (Oil & Gas, Cement, Petrochemical, Food, Renewable Energy etc.)



Chemical Engineering B.Sc. Degree Plan

First Year (Freshman)												
Course Code		Title	LC	LB	CR	Course Code		Title	LC	LB	CR	
MATH	101	Calculus I	4	0	4	MATH	102	Calculus II	4	0	4	
CHEM	101	General Chemistry I	3	4	4	CHEM	102	General Chemistry II	3	4	4	
PHYS	101	General Physics I	3	3	4	PHYS	102	General Physics II	3	3	4	
ENGL	101	An Introduction to Academic Discourse	3	0	3	ENGL	102	Introduction to Report Writing	3	0	3	
CSE	103	Computer Program in C	2	3	3	IAS	101	Practical Grammar	2	0	2	
PE	101	Health and Physical Education I	0	2	1	PE	102	Health and Physical Education II	0	2	1	
			15	12	19					15	9	18

Second Year (Sophomore)												
Course Code		Title	LC	LB	CR	Course Code		Title	LC	LB	CR	
CHE	201	Principles of Chem. Engg.	3	0	3	CHE	203	Chem. Engg. Thermo. I	2	0	2	
CHEM	221	Organic Chemistry I	3	4	4	CHE	204	Process Fluid Mechanics	3	3	4	
MATH	201	Calculus III	3	0	3	BIOL	233	Biology for Engineers	2	3	3	
ENGL	214	Academic & Professional Communication	3	0	3	MATH	202	Elementary Differential Equation	3	0	3	
IAS	111	Belief and its Consequences	2	0	2	IAS	201	Writing for Professional Needs	2	0	2	
ME	216	Materials Science & Eng.	3	3	4	XXX	xxx	Free Elective I	3	0	3	
			17	7	19					15	6	17

Third Year (Junior)															
Course Code		Title			LC	LB	CR	Course Code		Title			LC	LB	CR
CHE	300	Process Heat Transfer			3	3	4	CHE	306	Stagewise Separations			3	3	4
CHE	303	Chem. Engg. Thermo. II			3	0	3	CHE	307	Process Dynamics and Cont.			3	0	3
CHE	304	Mass Transfer			3	0	3	CHE	308	Kinetics and Reactor Design			3	3	4
CHEM	312	Physical Chemistry II			3	4	4	CHE	xxx	Chem. Engg. Elective I			3	0	3
MATH	321	Intro. Numerical Computing			3	0	3	XXX	xxx	Free Elective II			3	0	3
IAS	212	Professional Ethics			2	0	2	IAS	301	Oral Communication Skills			2	0	2
					17	7	19						17	6	19

Summer Session	CHE	350	Cooperative Work	0	0	0
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Fourth Year (Senior)												
Course Code		Title	LC	LB	CR	Course Code		Title	LC	LB	CR	
CHE	351	Cooperative Work (Cuntinued)	0	0	6	CHE	415	Computer Aided Process Design Lab	1	3	2	
						CHE	425	Process Design and Econ.	3	0	3	
						CHE	495	Integrated Design Course	1	6	3	
						CHE	xxx	Chem. Eng. Elective II	3	0	3	
						CHE	xxx	Chem. Eng. Elective III	3	0	3	
						IAS	322	Human Rights in Islam	2	0	2	
			0	0	6					13	9	16

Total Credit Hours of CHE Program is 133



COR: Training requirements.

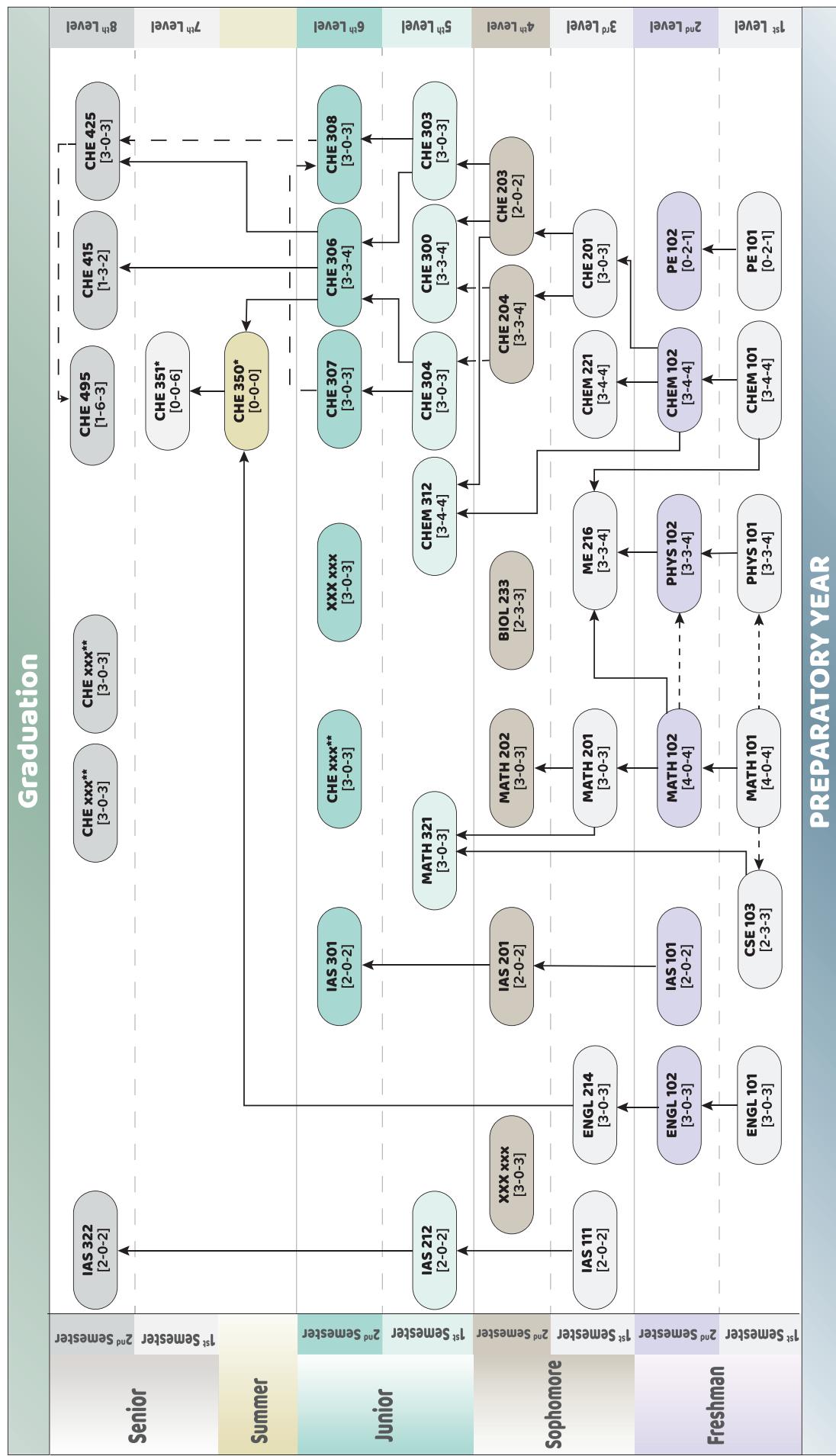
i- UHB Requirements: Completion of **85 Credit Hrs & ENGL 214**

ii- CHE Dept. Requirements : Completion of **(CHE 306)**

*** CHE Elective Courses

XXX xxx Technical Elective Courses

[Lecture - Lab - Credit Hrs]



COE Handbook



Students Advising List

