BS in Engineering Curriculum – CHPH Concentration

CHPH ENGR - TIER III: Math ACT of 25 or higher/Math SAT of 570 or higher

Freshman Fall Semester			**Freshman Spring Semester**		
MATH 115	Precalculus	3	MATH 122	Calculus I	4
ENGR 100	**Freshman Seminar**	**1**	BIOL 111	Basic Biology & Lab	4
ENGR 120	**Foundations of Engineering Design I**	**3**	**ENGR 121**	**Foundations of Engineering Design II**	**3**
ENGL 101	Academic Writing	3	ENGL 102	Academic Writing & Literature	3
CHEM 111	General Chemistry I & Lab	4	CHEM 113	General Chemistry II & Lab	4
CUC 100	Connections	0.5	CUC 100	Connections	0.5
	Semester Total:	**14.5**		**Semester Total:**	**18.5**

Sophomore Fall Semester			**Sophomore Spring Semester**		
MATH 223	Calculus II	4	MATH 224	Calculus III	4
PHYS 251	Physics I & Lab	4	**ENGR 260**	**Electrical Circuits & Lab**	**4**
ENGR 220	**Statics/Strength of Materials**	**3**	CHEM 228	Organic Chemistry II	4
CHPH 215	**Mass and Energy Balances**	**3**	PE 185	Lifetime Wellness	2
CHEM 227	Organic Chemistry I	4	ENGL 2xx	English Literature	3
			CUC 200	Connections	0.5
	Semester Total:	**18.0**		**Semester Total:**	**17.5**

Junior Fall Semester			**Junior Spring Semester**		
MATH 337	Differential Equations	3	**ENGR 320**	**Fluids**	**3**
BIOL 280	Biochemistry and Microbiology	4	**ENGR 240**	**Engineering Materials & Processes**	**4**
ENGR 380	**Thermodynamics**	**3**	**CHPH 325**	**Thermodynamics II and Heat Transfer**	**3**
ENGL 305	Technical Writing and Presentations	3	**CHPH 345**	**Microbiological, Fermentation & Separation Processes**	**2**
CHPH 315	**Transport Processes**	**3**	**CHPH 350**	**Chemical Reaction Engineering**	**2**
			ENGR 300	**Engineering Economics**	**3**
			CUC 200	Connections	0.5
	Semester Total:	**16.0**		**Semester Total:**	**17.5**

Senior Fall Semester			**Senior Spring Semester**		
ENGR 440	**Sensors & Controls & Lab**	**3**	**ENGR 491**	**Senior Design II**	**3**
HIST 111 or 112	Western Civilization I or II	3	**ENGR 460**	**Statistical Methods for Engineers**	**3**
ENGR 490	**Senior Design I**	**3**	HUM/FINE ARTS or SOC/BEH SCI	Elective	3
CHPH 445	**Chemical Engineering Principles, Unit Operations & Validation**	**4**	ART 131, MUSIC 131 or THEA 131	Fine Arts	3
CHRS 125	Introduction to Christianity	3	ECON 201	Microeconomics	3
			HUM/FINE ARTS	Elective	3
	Semester Total:	**16.0**		**Semester Total:**	**18.0**
				Degree Total	**136**

06Sep2017

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#ABET Requirements (2015-2016 Cycle)
Total Math and Science Hours: 46 (includes statistics for engineers but not pre-calc)
Total Engineering Hours: 53 (includes engineering economics)

1 year Math and Science: minimum of 32 hours
1.5 years Engineering: minimum of 48 hours
1 year = minimum of 32 hours or 0.25 of total credit hours

BOLD-FACED FONT – designates a course taught by the School of Engineering

BLUE BOX – indicates a course taken by both MECH and CHPH concentration students