

CHPH ENGR – Pre-Med Option

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	ENGR 121	Engineering Design II	3
ENGR 120	Engineering Design I	3	ENGL 102	Academic Writing & Literature	3
ENGL 101	Academic Writing	3	CHEM 113	General Chemistry II & Lab	4
CHEM 111	General Chemistry I & Lab	4	CUW 100	Connections	0.5
CUW 100	Connections	0.5	BIOL 201	Cellular & Molecular Biology	4
BIOL 111	Basic Biology & Lab	4			
Semester Total:		18.5	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	BIOL 334	Microbiology and Immunology	4
CHEM 227	Organic Chemistry I	4	CUW 200	Connections	0.5
Semester Total:		18.0	Semester Total:		16.5

Junior Fall Semester			Junior Spring Semester		
MATH 337	Differential Equations	3	ENGR 320	Fluids	3
ENGL 305	Technical Writing and Presentations	3	ENGR 240	Engineering Materials and Processes	4
ENGR 380	Thermodynamics	3	CHPH 325	Thermodynamics II and Heat Transfer	3
CHPH 425	Transport Processes	3	CHPH 345	Microbiological, Fermentation & Separation Processes	2
BIOL 430	Biochemistry	4	CHPH 350	Chemical Reaction Engineering	2
			RELG 125	Introduction to Christianity	3
Semester Total:		16.0	Semester Total:		17.0

Senior Fall Semester			Senior Spring Semester		
ENGR 340	Sensors & Controls & Lab	3	ENGR 491	Senior Design II	3
ENGR 300	Engineering Economics	3	ENGR 360	Statistical Methods for Engineers	3
CHPH 445	Chemical Engineering Principles, Unit Operations & Validation	4	ECON 201	Microeconomics	3
ENGR 490	Senior Design I	3	ART 131, MUSIC 131 or THEA 131	Fine Arts Elective	3
PSYC 222	General Psychology	3	BIOL 342	Genetics	4
CUW 200	Connections	0.5			
Semester Total:		16.5	Semester Total:		16.0

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SuperSenior Fall Semester			SuperSenior Spring Semester		
HIST 111 or 112	Western Civilization 1 or 2	3	HUM/FINE ARTS	Elective	3
BIOL 285	Human Anatomy and Physiology I	4	BIOL 335@ or BIOL 336@	Immunology or Medical Microbiology	3
SOC 225	Principles of Sociology	3	PSYC 260 or PSYC 369 or PSYC 461	Psychology Elective	3
ENGL 2xx	English Literature	3	BIOL 286	Human Anatomy and Physiology II	4
			PE 185	Lifetime Wellness	2
Semester Total:		12.0	Semester Total:		15.0
Degree Total&					136

#ABET Requirements (2015-2016 Cycle)

Total Math and Science Hours: 23 additional science credits beyond the regular chemical concentration degree

Total Engineering Hours: Same engineering hours as the regular chemical concentration degree

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

BLUE BOX – indicates a course taken by both same-Tier MECH and CHPH concentration students in the same semester

ORANGE BOX – indicates a course taken by pre-meds that is not taken by other CHPH concentration students

@ BIOL 335 is offered in spring semester of even numbered years. BIOL 336 is offered spring semester of odd numbered years. Note that BIOL 335 allows BIOL 342 to be taken concurrently.

&Degree total does not include courses taken to satisfy pre-med requirements/recommendations that are not already part of the engineering curriculum. Degree total reflects only courses required by the BS.ENGR.CHPH degree. This degree plan does include separate courses in biochemistry and microbiology (versus the combined course in the CHPH concentration), as pre-med requirements, but these two courses together will substitute for BIOL 280 in the CHPH concentration.

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Medical School

Students should check the specific requirements for each medical school program. Some schools may have additional requirements. The MCAT is required for admission to medical school.

The following courses are required for most medical programs:

- CHEM 227 and 228 Organic Chemistry I and II
- BIOL 220 and 223 Human Anatomy and Physiology I and II
- BIOL 280 Biochemistry and Microbiology
- BIOL 342 Genetics
- BIOL 430 Biochemistry

The following courses are recommended for most medical programs:

- PSYC 222 General Psychology
- BIOL 335 Immunology or BIOL 336 Medical Microbiology
- SOCI 225 General Sociology
- an additional PSYC class (PSYC 260, 369, 461 are good options)

A student will significantly strengthen his/her application to medical school with the addition of work experience in a medical setting. This work may include volunteer, CNA, EMT, medical missions work, etc. Any work which includes patient contact is preferred.

THE BS.ENGR.CHPH track includes all of these required and recommended courses, as well as some pre-requisite courses necessary to complete the courses listed above.

If you have questions about the Pre-Med Option, please contact us:

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