

4-Year Health, Engineering Science and Entrepreneurship (HESE) Program Road Map 2022-23

This program layout applies to students registered in 2022-23.

Where there are discrepancies in this document, the published [Academic Calendar](#) will always take precedence.

For a detailed breakdown of your course requirements, please refer to your Advisement Report in Mosaic.

HESE - LEVEL II						
	TERM 1			TERM 2		
HESE CORE	Engineering Mathematics III	MATH 2Z03	3	3	MATH 2ZZ3	Engineering Mathematics IV
	Human Centred Design	IBEHS 2E03	3	3	IBEHS 2EE3	From Idea to Innovation
	Elective	ELECTIVE	3			
IBIOMED CORE	Inquiry II: Biochemistry	HTHSCI 2E03	3	3	IBEHS 2P03	Health Solutions Design Projects II: Introduction to Genetic Engineering
	Human Physiology & Anatomy I	HTHSCI 2F03	3	3	HTHSCI 2FF3	Human Physiology & Anatomy II
				3	CHEM 1AA3	Introductory Chemistry II
	<u>TOTAL TERM 1 UNITS</u>		15	15	<u>TOTAL TERM 2 UNITS</u>	
	<u>TOTAL UNITS:</u>		30			

HESE - LEVEL III						
	TERM 1			TERM 2		
HESE CORE	Fundamentals of Business Strategy	IBEHS 3E03	3	3	HTHSCI 2K03	Inquiry II: Cell Biology
	Elective	ELECTIVE	3	3	IBEHS TECHNICAL COURSE	One of IBEHS 4A03, 4B03, 4C03 or 4D03
				3	ELECTIVE	Elective
IBIOMED CORE	Statistics & Epidemiology 1	HTHSCI 2G03	3	3	HTHSCI 3G03	Critical Appraisal of Medical Literature
	Biomedical Signals and Systems	IBEHS 3A03	3	4	IBEHS 3P04	Health Solutions Design Projects III: Analysis and Decision Making
	Introductory Organic Chemistry OR Organic Chemistry I	CHEM 2E03 OR CHEM 20A3	3			
	<u>TOTAL TERM 1 UNITS</u>		15	16	<u>TOTAL TERM 2 UNITS</u>	
	<u>TOTAL UNITS:</u>		31			

IBEHS 1HS0: Health Screening & Clinical Safety Training must be taken in the Spring/Summer, prior to enrolling in IBEHS 4EE6A/B

HESE - LEVEL IV

		TERM 1			TERM 2		
HESE CORE	Innovators In Scrubs	IBEHS 4EE6A	3	3	IBEHS 4EE6B	Innovators In Scrubs	
	Health, Engineering Science and Entrepreneurship Thesis	IBEHS 4E09A	4.5	4.5	IBEHS 4E09B	Health, Engineering Science and Entrepreneurship Thesis	
				3	ELECTIVE	Elective	
	One of IBEHS 4B03, 4F04, or 4QZ3	IBEHS TECHNICAL COURSE	4	3	IBEHS TECHNICAL COURSE	One of IBEHS 4A03, 4C03, or 4D03	
	Health Solutions Design Projects IV: Economics and Project Management	IBEHS 4P04	4	3	ELECTIVE	Elective	
		TOTAL TERM 1 UNITS	15.5	16.5	TOTAL TERM 2 UNITS		
		TOTAL UNITS:	32				