Minor Program Adjustment

Faculty: Faculty of Health Sciences	Date : Nov 16, 2017
Program: Kinesiology	
Undergraduate: 🔀	Graduate:

Minor Program Adjustments include: New required courses, Deletion of required courses, Other changes to degree requirements or program learning outcomes, New academic requirements or changes to existing requirements.

Motion: That CPRC approve the replacement of HLSC 2110U Clinical & Exercise Biochemistry with HLSC 2480U Exercise Biochemistry in the Kinesiology Program maps.

Proposal Brief

Summary of the proposed change

HLSC 2110 Clinical and Exercise Biochemistry is offered to Medical Lab Science, Human Health Science, and Kinesiology students separately; however, Kinesiology students do not require clinical biochemistry, and Medical Lab or Human Health Science students do not require exercise biochemistry. As such, a new course entitled HLSC 2480 Exercise Biochemistry has been created to replace this required course in the program maps. The existing HLSC 2110 has also been changed to Clinical Biochemistry.

Description of the ways in which the proposed change will enhance the program and/or opportunities for students

This change will allow for students to gain relevant foundational knowledge pertaining to exercise biochemistry while reducing the burden and stress that was previously associated with learning about clinical biochemistry. The new course will pair better with HLSC 3481 (Exercise Physiology) which is taken concurrently.

Process of consultation with other units if the change(s) involves students, staff, and/or faculty from other programs or courses

We have consulted with the Director of Health Sciences (Elita Partosoedarso) and Medical Laboratory Sciences (Holly Jones Taggart). Both welcome these changes as it allows them to enhance HLSC 2110.

Analysis of financial and enrolment implications

There are no implications since two sections of the course were already being offered.

Proposed Implementation Date (state term, e.g. Fall 2017)

Fall 2018

Transition Plan (include a plan for all current students in the program, by year level)

Since the course is currently offered in two sections, one that specifically caters to Kinesiology students, the change will not affect any students. They will simply enrol in the new course instead of HLSC 2110.

Calendar Copy and/or Program Maps (highlight revisions to existing curriculum) Attachments

APPROVAL DATES

Program Committee approval	November 20, 2017		
Curriculum Committee approval	November 23, 2017		
Faculty Council approval	November 29, 2017		
CPRC Approval	19 January 2018		
Submission to Academic Council	27 February 2018		

NEW COURSE TEMPLATE

For changes to existing courses see Course Change Template

.			,		
Faculty: Health Science	es				
Full Course Title: Exerci	cise Bioche	mistry			
Short Form Course Title	le (max 30	characters): Exercise	Biochemistry		
Subject Code and Cour number: HLSC 2480U	rse	Cross-listings:		Core Elective	Credit weight: 3 cr
Contact hours (please i	indicate nu	umber of hours for ea	ach component):		
∐ Lecture _3 [Lab	Tutorial	Other _		
PROGRAM(S) IMPACT fields or specializatior elective course being Calendar, please list a the Calendar copy for	ns here ar inserted all impact	nd include this forr anywhere other th ed programs includ	n with a progra an the Course D ling any applica	m adjustment/propo Description section o Ible fields or speciali	osal; for an f the Academic zations and place
BHSc Kinesiology Progr		• •			
Note: This course will b Exercise Biochemistry"	-	-		from "Foundations in C	ilinical and
CALENDAR DESCRIPTI	ION				
This course will provide and biomolecules, met the basic principles of a perturbations of exerci membranes, and metal student with an underscomponent will be struserve as the intellectual	tabolic path biochemist ise. Topics abolism (lip standing of uctured tov	hways, mechanisms of try underlie the norm s will include nucleic of id, nitrogen, and carl f foundational bioche wards introductory e	of control, and ge nal physiological fracids, protein stru pohydrate). This emistry underlying xercise biochemis	ne function. This cours unctions in humans and icture and function, en- course will better prepa g rest and exercise. The try. This foundational	se will present how d the zymes, are Kinesiology e lecture
	1				
Prerequisites					
Co-requisites					
Credit restrictions	HLSC 211	10U			
Equivalency courses					
Grading scheme	<u> </u> lette	er grade pass/fa	nil		
LEARNING OUTCOME	S (this se	ction is required)			

On successful completion of this course, students will be able to:

- 1. Identify the major functional groups present in biomolecules
- 2. Illustrate the connection between biomolecular functional groups to the molecular processes underlying health and exercise physiology.
- 3. Discuss the metabolism of carbohydrates, lipids, and proteins, and nitrogen containing compounds to body homeostasis essential to human health.

4. Describe how the metaboral altered in various exercise states.	olic pathways used in the generation and storage of cellular energy can be
5. Differentiate between en perturbation of exercise.	nzymatic function as biological catalysts for the maintenance of health and the
	n and function of the cellular lipid bilayer, the roles of carrier proteins, protein pump, and the alterations that occur with acute exercise and chronic exercise
7. Describe the nitrogen ba nucleic acids DNA and RNA.	ses and ribose sugars and the primary and secondary structures that compose
	the major cellular metabolic changes that occur with acute exposure to ning, and the biochemical impact of changes to volume and intensity.
COURSE INSTRUCTIONAL METH	IOD
(check all that may apply)	CLS (in-class) HYB (in-class and online)
	IND (individual studies)
	WB1 (synchronous online delivery)
	WEB (asynchronous online delivery)
TEACHING AND ASSESSMENT N	1ETHODS
Midterm 1, Midterm 2, Tuto	orial Workshops, Final Exam
CONSULTATION AND FINANCIA	L IMPLICATIONS, WHERE APPROPRIATE
A kinesiology section is alread to the requested change.	y running for this course. Therefore there are no financial implications
EFFECTIVE SEMESTER (Specify T	erm e.g. Fall 2017)
Fall 2018	
APPROVAL DATES	
Program Committee approval	October 25, 2017
Curriculum Committee approval	November 22, 2017
Faculty Council approval	November 29, 2017
Submission to CPRC/GSC	With MPA, January 2018

Submission to CPRC/GSC

Bachelor Of Health Science - Kinesiology - Fitness & Health Promotion Bridge 2018-2019

Somester 1 Procquisite(s) Dono Somester 2 Procquisite(s)			Year 1	(2016	5/17)	
## Security - Information Literacy and Written Communications for the Health Sciences ## LISC 1201U - Anatomy & Physiology II ## LISC 2702U - Quantitative Reasoning in Kinesiology ## LISC 1201U - Anatomy & Physiology II ## LISC 2401U - Human Growth and Motor Development HISC 3401U - Human Growth and Motor Development Co-requisite: HISC 1201U HISC 3451U - Exercise Physiology HISC 1201U HISC 3451U - Exercise Physiology HISC 1201U HISC 3451U - Exercise Physiology HISC 1201U HISC 3451U - Exercise Rehabilitation I: Cardiac, Activity & Health HISC 3451U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions HISC 3450U - Health and Exercise Psychology PSYC 1000U HISC 3451U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions HISC 2402U - Altered Physiology Mechanisms of Disease HISC 1201U HISC 3451U - HISC 3451U HISC 3451	Done	Semester 1	Prerequisite(s)	Done		Prerequisite(s)
Communications for the Health Sciences HLSC 24701 - Anatomy & Physiology II HLSC 27020 - Quantitative Reasoning in Kinesiology HLSC 12000 HLSC 24701 - Human Growth and Motor Development Co-requisite: HLSC 12010 HLSC 34701 - Human Growth and Motor Development Vear 2 (2017/18) Semester 1 HLSC 34800 - Critical Appraisal of Statistics in Health Science 1 HLSC 34800 - Critical Appraisal of Statistics in Health Science 1 HLSC 34800 - Health and Exercise Psychology PSYC 10000 HLSC 34701 - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions HLSC 34700 - Intro to Movement Neuroscience HLSC 32010 HLSC 34701 - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions HLSC 34700 - Intro to Movement Neuroscience HLSC 32010 HLSC 34701 - Human Motor Control and Learning HLSC 34700 - Human Motor Control and Learning		BIOL 1010U - Biology I			Biochemistry-HLSC 2480U - Exercise Biochemistry	
HLSC 2702U - Quantitative Reasoning in Kinesiology HLSC 1201U						24 Credit Hours
HLSC 2401U - Human Growth and Motor Development Teraguisite: HLSC 1201U HLSC 2017/18) Semester 1 HLSC 3800U - Critical Appraisal of Statistics in Health Science HLSC 300U - Health and Exercise Psychology HLSC 300U - Health and Exercise Psychology HLSC 300U - Indicate Psychology HLSC 4475U - Research Methods for Health Gare Professionals: Theory and Metabolic Conditions HLSC 3400U - Indicate Psychology HLSC 3475U - Research Methods for Health Gare Professionals: Theory and Application HLSC 3410U - Human Motor Control and Learning HLSC 3410U - Human Motor Control and Learning HLSC 3475U - Research Methods for Health Gare Professionals: Theory and Application HLSC 3410U - Human Motor Control and Learning HLSC 3475U - Research Methods for Health Gare Professionals: Theory and Application HLSC 3410U - Human Motor Control and Learning HLSC 3475U - Human Motor Control and Learning HLSC		HLSC 1201U - Anatomy & Physiology II			HLSC 3475U - Intro to Injury Management	HLSC 3470U
Semester 1		HLSC 2702U - Quantitative Reasoning in Kinesiology	HLSC 1200U		HLSC 3481U - Exercise Physiology	HLSC 1201U
Semester 1		HLSC 2401U - Human Growth and Motor Development	Co-requisite: HLSC 1201U			HLSC 1701U
HLSC 3800U - Critical Appraisal of Statistics in Health 4 Credit Hours Respiratory and Metabolic Conditions HLSC 4475U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions HLSC 3920U - Health and Exercise Psychology PSYC 1000U HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application HLSC 3970U - Research Methods for Health Care Professionals: Theory and Application HLSC 3970U - Research Methods for Health Care Professionals: Theory and Application HLSC 3970U - Research Methods for Health Care Professionals: Theory and Application HLSC 3970U - Research Methods for Health Care Professionals: Theory and Application HLSC 3970U - HLSC 3970U - Research Methods for Health Care Professionals: Theory and Application HLSC 3470U - Human Motor Control and Learning HLSC 3470U - HLSC 3470U - HLSC 3470U - HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U - HLSC 3470U - HLSC 3470U Profequisite(s) Somester 1 HLSC 4482U - Advanced Exercise Assessment and Prescription Prescription HLSC 3480U - Selective Topics in Physical Activity and Health (Health & Wellness pathway) OR Open Elective (generalist pathway) HLSC 4413U - Exercise Rehabilitation II: Integrated Case Studies HLSC 3480U, HLSC 3481U HLSC 3480U - Exploring Mental Health & Developmental Disabilities (Health & Wellness pathway) OR OR HLSC 4994U - Research Applications for Kinesiology OR HLSC 3910U and application acceptance HLSC 3910U and application acceptance HLSC 3909U - Research Practicum II HLSC 3900U - HLSC 3900U elective (3000 or 4000 level) HLSC 3900U elective (3000 or 4000 level)			Year 2	(2017		
Respiratory and Metabolic Conditions		Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
HLSC 2400U - Intro to Movement Neuroscience HLSC 1201U HLSC 2462U - Altered Physiology: Mechanisms of Disease HLSC 1201U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U Prerequisite(s) HLSC 3470U - Semester 2 Prerequisite(s) HLSC 4482U - Advanced Exercise Assessment and Prescription HLSC 3480U HLSC 3480U HLSC 3480U - Selective Topics in Physical Activity and Health (Health & Wellness pathway) OR Open Elective (generalist pathway) HLSC 4480U - Exercise Rehabilitation II: Integrated Case Studies HLSC 3480U, HLSC 3481U HLSC 3480U - Exercise Rehabilitation II: Integrated Case Studies HLSC 3480U - Final Relation		· ·	24 Credit Hours			HLSC 3480U, HLSC 3481U
Professionals: Theory and Application HLSC 2462U - Altered Physiology: Mechanisms of Disease HLSC 1201U HLSC 3410U - Human Motor Control and Learning HLSC 3470U HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U HLSC 3470U - Human Motor Control and Learning HLSC 3470U HLSC 3470U HLSC 3470U HLSC 3470U - Frequisite(s) HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics						
HLSC 4471U - Kinesiology II: Musculoskeletal Blomechanics HLSC 3470U, HLSC 2702U Open Elective *					Professionals: Theory and Application	
Semester 1 Prerequisite(s) Semester 2 Prerequisite(s)						HLSC 3470U
Semester 1 HLSC 4482U - Advanced Exercise Assessment and Prescription HLSC 3480U HLSC 3490U Research Practicum II HLSC 3499U HLSC 3490U HLSC 3499U						
HLSC 4482U - Advanced Exercise Assessment and Prescription HLSC 4482U - Advanced Exercise Assessment and Prescription HLSC 4480U - Selective Topics in Physical Activity and Health (Health & Wellness pathway) OR OPER Elective (generalist pathway) HLSC 4480BU - Exploring Mental Health & Developmental Disabilities (Health & Wellness pathway) OR 3000/4000 level Health or Kinesiology Elective (generalist pathway) HLSC 4994U - Research Applications for Kinesiology OR HLSC 4998U - Research Practicum I HLSC 3910U and application acceptance HLSC 3900U HLSC 4999U - Research Practicum II HLSC 4998U - Research Practicum II					•	
Prescription Health (Health & Wellness pathway) OR Open Elective (generalist pathway) HLSC 4413U - Exercise Rehabilitation II: Integrated Case Studies HLSC 3480U, HLSC 3481U HLSC 4808U - Exploring Mental Health & Developmental Disabilities (Health & Wellness pathway) OR 3000/4000 level Health or Kinesiology Elective (generalist pathway) HLSC 4994U - Research Applications for Kinesiology OR HLSC 4998U - Research Practicum I HLSC 3910U and application acceptance HLSC 3910U and application acceptance HLSC 3999U - Research Practicum II HLSC 4998U Health or Kinesiology Elective (3000 or 4000 level) Health or Kinesiology Elective (3000 or 4000 level)			• • • • • • • • • • • • • • • • • • • •			
Studies Developmental Disabilities (Health & Wellness pathway) OR 3000/4000 level Health or Kinesiology Elective (generalist pathway) HLSC 4994U - Research Applications for Kinesiology OR HLSC 4998U - Research Practicum I HLSC 4998U - Research Practicum I HLSC 3910U and application acceptance HLSC 4999U - Research Practicum II HLSC 4999U - Research Practicum II HLSC 4998U HLSC 4998U HLSC 4998U HLSC 4998U HLSC 4999U - Research Practicum II HLSC 4998U Health or Kinesiology Elective (3000 or 4000 level)					Health (Health & Wellness pathway) OR Open Elective (generalist pathway)	84 credit hours
OR HLSC 4998U - Research Practicum I HLSC 3805U - Intro to Epidemiology (Health & Wellness pathway) OR HLSC 3800U HLSC 3800U HLSC 3800U HLSC 3800U Health or Kinesiology Elective (3000 or 4000 level)		· ·	HLSC 3480U, HLSC 3481U		Developmental Disabilities (Health & Wellness pathway) OR 3000/4000 level Health or Kinesiology Elective	54 credit hours
HLSC 4998U - Research Practicum I HLSC 3910U and application acceptance HLSC 4999U - Research Practicum II HLSC 4998U HLSC 3805U - Intro to Epidemiology (Health & Wellness pathway) HLSC 3800U Health or Kinesiology Elective (3000 or 4000 level)					7 •	
pathway)						
or Open Elective (generalist patriway)			HLSC 3800U		Health or Kinesiology Elective (3000 or 4000 level)	
3/4000 level Health or Kinesiology Elective		3/4000 level Health or Kinesiology Elective				

^{*}If interested in being eligible to apply for AT internship for final year, students must take HLSC 3476 (Advanced Sport Injury Management) for their elective

Bachelor Of Health Science - Kinesiology - Exercise Science 2017-2018

		Year 1	2017/	18)	
Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	BIOL 1010U - Biology I			BIOL 1020U - Biology II	BIOL 1010U
	CHEM 1010U - Chemistry I			CHEM 1020U - Chemistry II	CHEM 1010U
	HLSC 1200U - Anatomy & Physiology I			HLSC 1201U - Anatomy & Physiology II	HLSC 1200U
	HLSC 1701U - Information Literacy and Written Communications for the Health Sciences			HLSC 1812U - Socio-cultural Perspectives on Physical Activity & Health	HLSC 1701U
	HLSC 1810U - Health Promotion & Healthy Active Living			PSYC 1000U - Introductory Psychology	
		Year 2	2018/	19)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 2400U - Intro to Movement Neuroscience	HLSC 1201U		HLSC 2110U - Foundations in Clinical and Exercise- Biochemistry-HLSC 2480U - Exercise Biochemistry	
	HLSC 2462U - Altered Physiology: Mechanisms of Disease I	HLSC 1201U; Credit Restriction: HLSC 2460U		HLSC 3800U - Critical Appraisal of Statistics in Health Sciences	24 credit hours
	· ·	HLSC 1201U, PSYC 1000U		HLSC 3475U - Intro to Injury Management	HLSC 3470U
	HLSC 3470U - Kinesiology I: Anatomy of Human Movement	HLSC 1201U		HLSC 3481U - Exercise Physiology	HLSC 1201U
	HLSC 2702U - Quantitative Reasoning for Kinesiology	HLSC 1200U		Open Elective	
		Year 3	2019/	,	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 3020U - Health & Exercise Psychology	PSYC 1000U		HLSC 3410U - Human Motor Control and Learning	HLSC 3470U
	HLSC 3480U - Principles of Fitness Assessment & Exercise Prescription	HLSC 3470U, HLSC 3481U		HLSC 3711U - Professional Ethics & Communication in Kinesiology	24 credit hours
	HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application	HLSC 3800U		HLSC 4412U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions	HLSC 3480U, HLSC 3481U
	HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics	HLSC 3470U, HLSC 2702U		HLSC 4475U - Occupational Ergonomics	HLSC 4471U, Credit Restriction. HLSC 4472U
	HLSC 2825U - Nutrition and Health	HLSC 1201U		Open Elective *	
		Year 4	2020/	21)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 4413U - Exercise Rehabilitation II: Integrated Case Studies	HLSC 3480U, HLSC 3481U		Open Elective	
	HLSC 4414U - Advanced Topics in Neuromuscular Physiology and Pathophysiology	HLSC 3410U		HLSC 4476U - Clinical Biomechanics	HLSC 4475U, Credit Restriction: HLSC 4472U
	HLSC 4994U - Research Applications for Kinesiology OR			HLSC 4995U - Kinesiology Research to Practice OR	HLSC 4994U OR
	HLSC 4998U - Research Practicum I	OR HLSC 3910U and application acceptance		HLSC 4999U - Research Practicum II	HLSC 4998U
	HLSC 4998U - Research Practicum I HLSC 4482U - Advanced Exercise Assessment and Prescription Kinesiology Elective (3000 - or 4000 Level)				HLSC 4998U

Bachelor Of Health Science - Kinesiology - Generalist 2018-2019

		Year 1	(2017/1	8)	
Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	BIOL 1010U - Biology I	. ,		HLSC 1201U - Anatomy & Physiology II	HLSC 1200U
	HLSC 1200U - Anatomy & Physiology I			HLSC 1812U - Socio-cultural Perspectives on Physical Activity & Health	HLSC 1702U or HLSC 1701U
	HLSC 1701U - Information Literacy and Written Communications for the Health Sciences			PSYC 1000U - Introductory Psychology	
	HLSC 1810U - Health Promotion & Healthy Active Living			Open Elective	
	Open Elective			Open Elective	
		Year 2	(2018/1	9)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 2400U - Intro to Movement Neuroscience	HLSC 1201U		HLSC 2110U - Foundations in Clinical and Exercise Biochemistry-HLSC 2480U - Exercise Biochemistry	Credit Restriction BIOL 2040U
	HLSC 2462U - Altered Physiology: Mechanisms of Disease I	HLSC 1201U; Credit Restriction: HLSC 2460U		HLSC 3800U - Critical Appraisal of Statistics in Health Science	24 Credit Hours
	HLSC 2401U - Human Growth and Motor Development	HLSC 1201U, PSYC 1000U		HLSC 3475U - Intro to Injury Management	HLSC 3470U
	HLSC 3470U - Kinesiology I: Anatomy of Human Movement	HLSC 1201U		HLSC 3481U - Exercise Physiology	HLSC 1201U
	HLSC 2702U - Quantitative Reasoning for Kinesiology	HLSC 1200U		Open Elective	
		Year 3	Year 3 (2019/20)		
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 3020U - Health & Exercise Psychology	PSYC 1000U		HLSC 3410U - Human Motor Control & Learning	HLSC 3470U
	HLSC 3480U - Principles of Fitness Assessment & Exercise Prescription	HLSC 3470U, HLSC 3481U		HLSC 3711U - Professional Ethics & Communication in Kinesiology	24 credit hours
	HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application	HLSC 3800U		HLSC 4412U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions	HLSC 3480U, HLSC 3481U
	HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics	HLSC 3470U, HLSC 2702U		HLSC 4475U - Occupational Ergonomics	HLSC 4471U, Credit Restriction. HLSC 4472U
	Open Elective			Open Elective *	
		Year 4	(2020/2	1)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 4994U - Research Applications for Kinesiology	HLSC 3910U		HLSC 4995U - Kinesiology Research to Practice	HLSC 4994U
	OR	OR		OR	OR
	HLSC 4998U - Research Practicum I	HLSC 3910U and application acceptance		HLSC 4999U - Research Practicum II	OR HLSC 4998U
	HLSC 4998U - Research Practicum I HLSC 2825U - Nutrition and Health	HLSC 3910U and application acceptance HLSC 1201U		HLSC 4999U - Research Practicum II Kinesiology Elective (3000 - or 4000 Level)	
	HLSC 4998U - Research Practicum I	HLSC 3910U and application acceptance HLSC 1201U		HLSC 4999U - Research Practicum II	
	HLSC 4998U - Research Practicum I HLSC 2825U - Nutrition and Health HLSC 4413U - Exercise Rehabilitation II: Integrated Case	HLSC 3910U and application acceptance HLSC 1201U		HLSC 4999U - Research Practicum II Kinesiology Elective (3000 - or 4000 Level)	

Bachelor Of Health Science - Kinesiology - Health & Wellness 2018-2019

	Year 1 (2017/18)					
Done	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)	
	BIOL 1010U - Biology I			HLSC 1201U - Anatomy & Physiology II	HLSC 1200U	
	HLSC 1200U - Anatomy & Physiology I			HLSC 1812U - Socio-cultural Perspectives on Physical Activity & Health	HLSC 1701U	
	HLSC 1701U - Information Literacy and Written Communications for the Health Sciences			PSYC 1000U - Introductory Psychology		
	HLSC 1810U - Health Promotion & Healthy Active Living			Open Elective		
	Open Elective			Open Elective		
		Year 2 (2018/1	19)		
		Prerequisite(s)		Semester 2	Prerequisite(s)	
	HLSC 2400U - Intro to Movement Neuroscience	HLSC 1201U		HLSC 2110U - Foundations in Clinical and Exercise Biochemistry HLSC 2480U - Exercise Biochemistry	Credit Restriction BIOL 2040U	
	Disease I	HLSC 1201U; Credit Restriction: HLSC 2460U		Science	24 Credit Hours	
	·	HLSC 1201U, PSYC 1000U		HLSC 3475U - Intro to Injury Management	HLSC 3470U	
	Movement	HLSC 1201U		HLSC 3481U - Exercise Physiology	HLSC 1201U	
	HLSC 2702U - Quantitative Reasoning for Kinesiology	HLSC 1200U		Open Elective		
		Year 3 (2019/2	20)		
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)	
	HLSC 3020U - Health & Exercise Psychology	PSYC 1000U		HLSC 3410U - Human Motor Control & Learning	HLSC 3470U	
	HLSC 3480U - Principles of Fitness Assessment & Exercise Prescription	HLSC 3470U, HLSC 3481U		HLSC 3711U - Professional Ethics & Communication in Kinesiology	24 credit hours	
	HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application	HLSC 3800U		HLSC 4412U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions	HLSC 3480U, HLSC 3481U	
	HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics	HLSC 3470U, HLSC 2702U		HLSC 4475U - Occupational Ergonomics	HLSC 4471U, Credit Restriction. HLSC 4472U	
	HLSC 2825U - Nutrition and Health	HLSC 1201U		Open Elective *		
		Year 4 (
		Prerequisite(s)		Semester 2	Prerequisite(s)	
	HLSC 4413U - Exercise Rehabilitation II: Integrated Case Studies			Health	84 Credit Hours	
	HLSC 3805U - Introduction to Epidemiology	HLSC 3800U		Disabilities	84 credit hours	
	OR	HLSC 3910U OR HLSC 3910U and application acceptance		HLSC 4995U - Kinesiology Research to Practice OR HLSC 4999U - Research Practicum II	HLSC 4994U OR HLSC 4998U	
	HLSC 4482U - Advanced Exercise Assessment and Prescription	HLSC 3480U		Open Elective (2000 level or higher)		
	Kinesiology Elective (3000 - or 4000 Level)			Kinesiology Elective (3000 - or 4000 Level)		

Bachelor Of Health Science - OTA/PTA Pathway to Kinesiology 2018-2019

	Year 1 (2017/18)					
Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)	
	BIOL 1010U - Biology I			HLSC 2110U Foundations in Clinical and Exercise- Biochemistry HLSC 2480U - Exercise Biochemistry	BIOL 1010U	
	HLSC 1701U - Information Literacy and Written Communications for the Health Sciences			HLSC 3475U - Intro to Injury Management	HLSC 3470U	
	HLSC 2400U - Intro to Movement Neuroscience	HLSC 1201U		HLSC 3800U - Critical Appraisal of Statistics in Health Sciences	24 Credit Hours	
	HLSC 2702U - Quantitative Reasoning for Kinesiology	HLSC 1200U		HLSC 3481U - Exercise Physiology	HLSC 1201U	
	HLSC 2462U - Altered Physiology: Mechanisms of Disease	HLSC 1201U		Open Elective		
		Year 2	•	•		
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)	
	HLSC 3020U - Health and Exercise Psychology	PSYC 1000U		HLSC 3410U - Human Motor Control and Learning	HLSC 3470U	
	HLSC 3480U - Principles of Fitness Assessment & Exercise Prescription	HLSC 3470U		Kinesiology	24 Credit Hours	
	HLSC 3910U - Research Methods for Health Care Professionals: Theory & Application	HLSC 3800U		HLSC 4412U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions	HLSC 3480U, HLSC 3481U	
	HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics	HLSC 3470U, HLSC 2702U		HLSC 4475U - Occupational Ergonomics	HLSC 4471U	
	HLSC 2825U - Nutrition & Health	HLSC 1201U		Open Elective *		
		Year 3				
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)	
	HLSC 4413U - Exercise Rehabilitation II: Integrated Case Studies	HLSC 3480U, HLSC 3481U		HLSC 4995U - Kinesiology Research to Practice OR HLSC 4999U - Research Practicum II	HLSC 4994U OR HLSC 4998U	
	HLSC 4994U - Research Applications for Kinesiology OR HLSC 4998U - Research Practicum I	HLSC 3910U, HLSC 3711U OR HLSC 3910U and application acceptance		Kinesiology Elective (3000 level or higher)		
	HLSC 4482U - Advanced Exercise Assessment and Prescription	HLSC 3480U		Kinesiology Elective (3000 level or higher)		
	Open Elective			Open Elective (2000 level or higher)		
	Open Elective			Open Elective (2000 level or higher)		

^{*}If interested in being eligible to apply for AT internship for final year, students must take HLSC 3476 (Advanced Sport Injury Management) for their elective

Bachelor Of Health Science - Kinesiology - Rehabilitation 2018-2019

		Year 1 (2017/18) - Follow map for			I
е	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	BIOL 1010U - Biology I			BIOL 1020U - Biology II or Open Elective	BIOL 1010U
	CHEM 1010U - Chemistry I or Open elective			CHEM 1020U - Chemistry II or Open Elective	CHEM 1010U
	HLSC 1200U - Anatomy & Physiology I			HLSC 1201U - Anatomy & Physiology II	HLSC 1200U
	HLSC 1701U - Information Literacy and Written Communications for the Health Sciences			HLSC 1812U - Socio-cultural Perspectives on Physical Activity & Health	HLSC 1701U
	HLSC 1810U - Health Promotion & Healthy Active Living			PSYC 1000U - Introductory Psychology	
		Year	2 (2018/	19)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 2400U - Intro to Movement Neuroscience	HLSC 1201U		HLSC 2110U - Foundations in Clinical and Exercise- Biochemistry-HLSC 2480U - Exercise Biochemistry	Credit Restriction BIOL 2040U
	HLSC 2462U - Altered Physiology: Mechanisms of Disease I	HLSC 1201U		HLSC 3800U - Critical Appraisal of Statistics in Health Sciences	24 credit hours
	HLSC 2401U - Human Growth and Motor Development	HLSC 1201U, PSYC 1000U		HLSC 3475U - Intro to Injury Management	HLSC 3470U
	HLSC 3470U - Kinesiology I: Anatomy of Human Movement	HLSC 1201U CoReq: HLSC 2400U		HLSC 3481U - Exercise Physiology	HLSC 1201U
	HLSC 2702U - Quantitative Reasoning for Kinesiology	HLSC 1200U		Open Elective	
		Year	3 (2019/	20)	
	Semester 1	Prerequisite(s)		Semester 2	Prerequisite(s)
	HLSC 3020U - Health & Exercise Psychology	PSYC 1000U		HLSC 3410U - Human Motor Control and Learning	HLSC 3470U
	HLSC 3480U - Principles of Fitness Assessment & Exercise Prescription	HLSC 3470U, HLSC 3481U		HLSC 3711U - Professional Ethics & Communication in Kinesiology	24 credit hours
	HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application	HLSC 3800U		HLSC 4412U - Exercise Rehabilitation I: Cardiac, Respiratory and Metabolic Conditions	HLSC 3480U, HLSC 3481U
	HLSC 4471U - Kinesiology II: Musculoskeletal Biomechanics	HLSC 3470U, HLSC 2702U		HLSC 4475U - Occupational Ergonomics	HLSC 4471U, Credit Rest. HLSC 4472U
	HLSC 4473U - Practical Human Anatomy I: Back and Lower Limbs	HLSC 3470U		HLSC 4474U - Practical Human Anatomy II: Head, Neck and Upper Limbs	HLSC 3470U
_		Year 4 - Begin 1	st year (c	of 4) at CMCC	!
		· ·	or	•	
	If student changes his/her m			CMCC, student may complete their final year for UOI	T degree below:
	-		4 (2020/		
		Prerequisite(s)		Semester 2	Prerequisite(s)
	Studies	HLSC 3480U, HLSC 3481U		Open Elective	
	HLSC 4414U - Advanced Topics in Neuromuscular Physiology and Pathophysiology	HLSC 3410U		HLSC 4476U - Clinical Biomechanics	HLSC 4475U, Credit Rest. HLSC 4472U
		HLSC 3910U		HLSC 4995U - Kinesiology Research to Practice	HLSC 4994U
	HLSC 4998U - Research Practicum I	OR HLSC 3910U and application acceptance		OR HLSC 4999U - Research Practicum II	OR HLSC 4998U
	HLSC 4482U - Advanced Exercise Assessment and Prescription	HLSC 3480U		Open Elective (2000 level or higher)	
	HLSC 2825U - Nutrition and Health			Kinesiology Elective (3000 - or 4000 Level)	