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MEMORANDUM

ATTENTION	Senate	DATE	February 11, 2020
FROM	Jon Driver, Vice-President, Academic and Provost <i>pro tem</i> , and Chair, SCUP	PAGES	1 of 1
RE:	Full Program Proposal for the Professional Kinesiology Certificate (SCUP 20-06)		

At its February 5, 2020 meeting, SCUP reviewed and approved the full program proposal for the Professional Kinesiology Certificate in the Department of Biomedical Physiology and Kinesiology within the Faculty of Science, effective Fall 2020.

Motion:

That Senate approve and recommend to the Board of Governors the full program proposal for the Professional Kinesiology Certificate in the Department of Biomedical Physiology and Kinesiology within the Faculty of Science, effective Fall 2020.

c: R. Dill
D. Clarke



Department of
Biomedical Physiology and Kinesiology
Faculty of Science

February 10, 2020

To: John Driver, Chair, Senate Committee on University Priorities

RE: Professional Kinesiology Certificate Full Program Proposal, Department of Biomedical Physiology and Kinesiology, Faculty of Science.

Dear Dr. Driver,

This memo summarizes the additional information provided to SCUS and SCUP that satisfied the questions of two committee members regarding our Professional Kinesiology Certificate Full Program Proposal. Two primary questions were raised: 1) The precedents at SFU for non-credit requirements within programs and 2) How the inclusion of non-credit requirements within the certificate design meet the needs for BPK students.

Question 1: Precedents for external non-credit requirements within programs

There are numerous precedents for external non-credit requirements in existing SFU programs. Within the suite of BPK programs (majors, minors, concentrations and certificates), the Professional Kinesiology Certificate (PKC) follows the precedent of our Occupational Ergonomics Certificate (OEC) in terms of scope and intent. The OEC prepares students to be certified nationally by the Association of Canadian Ergonomists by selecting a prescribed set of BPK courses that provide them with the specialized theory and skills for certification in the area of occupational ergonomics. The proposed PKC similarly requires a selected set of courses that allow students to define the specialization of their program, and learn the theory and skills required for national certification through the Canadian Society for Exercise Physiology or Canadian Fitness Education Services. In addition, the BPK Health and Fitness Studies certificate requires non-credit CPR certification to be submitted prior to graduation, and a non-credit criminal record check by the Ministry of Public Safety and Solicitor General is required for students to complete SFU courses with practicum components at the undergraduate and graduate level in various departments.

Outside of BPK, the SFU School of Business has two certificates, the Corporate Environmental and Social Sustainability certificate and the Business Technology Management certificates, that both require non-credit experiential or service-learning documentation to be submitted and approved prior to graduation. Similarly, Business Administration Majors are required to do six non-credit workshops to complete a business career passport as part of their major program.



Department of
Biomedical Physiology and Kinesiology
Faculty of Science

Question 2: Meeting the needs of students

The Professional Kinesiology Certificate was designed expressly with student needs in mind, insofar as we are enabling them to satisfy the demands of external stakeholders to SFU's programs such as employers of kinesiologists and taxpayers who benefit from kinesiology services. The profession of kinesiology is in a transition period: As of late 2019, ICBC pre-authorizes 12 treatments by kinesiologists for those injured in automobile collisions, and kinesiology is being considered for regulation by the B.C. as a healthcare profession. These external events provide opportunities and challenges for SFU in educating kinesiology students because more will be asked of our graduates in terms of their mastery of clinical skills. Our programming should therefore evolve to meet current and future needs of our graduates.

Accordingly, we designed the PKC to provide students with a credential that demonstrates that they meet or exceed industry standards for an exciting and dynamic career and will provide enhanced benefit to the Canadian healthcare, sport, and recreation sectors. *The PKC provides a clear educational pathway, within the options available to them at SFU, to develop the necessary knowledge, skills and experience to enter the work force as professional kinesiologists for the foreseeable future.* We predict that SFU will be recognized as a leader in kinesiology in BC and across Canada for this innovative certificate program. Our proposed PKC provides a structure that leverages our rigorous B.Sc. program to strike the appropriate balance for training students who seek to work as professional kinesiologists.

Thank you for your time in considering our Professional Kinesiology Certificate Full Program Proposal.

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Ryan P Dill
2020.02.10
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Ryan Dill

Senior Lecturer, Undergraduate Program Committee Chair
Department of Biomedical Physiology and Kinesiology
Faculty of Science, SFU
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A handwritten signature in blue ink, appearing to read "David C. Clarke".

Digitally signed by Dave
Clarke
Date: 2020.02.10
14:18:44 -08'00'

David C. Clarke, Ph.D.

Associate Professor
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MEMORANDUM

ATTENTION	Senate Committee on University Priorities	DATE	January 10, 2020
FROM	Wade Parkhouse, Chair	PAGES	1/1
	Senate Committee on Undergraduate Studies		
RE:	Faculty of Science (SCUS 19-76)		

A handwritten signature in blue ink, appearing to read "Wade Parkhouse", is written over the signature line of the memorandum.

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of January 9, 2020, gives rise to the following recommendation:

Motion

That SCUP approve and recommend to Senate the Full Program Proposal for the Professional Kinesiology Certificate in the Department of Biomedical Physiology and Kinesiology within the Faculty of Science.

The relevant documentation for review by SCUP is attached.



SIMON FRASER UNIVERSITY
ENGAGING THE WORLD

Professional Kinesiology Certificate

Full Program Proposal

November 5, 2019

Biomedical Physiology and Kinesiology

1 Executive Summary

a) An overview of the institution's history, mission, and academic goals:

As Canada's engaged university, Simon Fraser University is defined by its dynamic integration of innovative education, cutting-edge research and far-reaching community engagement.

The Professional Kinesiology Certificate incorporates advanced training through applied upper-division courses, substantial community-based experiential education through practicums, co-operative education and career preparation through formal certification with a national certifying body as a Personal Trainer and student membership in the BC Association of Kinesiologists.

The community-based experiential education enhances student engagement in the classroom, includes community experts and alumni in the professional development of students, and satisfies the external certification requirements for practical hours in the field.

This proposal consolidates current course offerings into a career-focused Certificate, addressing student need and employer demand for highly trained kinesiology professionals.

b) Credential to be awarded:

Professional Kinesiology Certificate

c) Location of program:

Burnaby

d) Faculty offering the proposed new program:

Biomedical Physiology and Kinesiology (BPK), Faculty of Science

e) Anticipated program start date:

Fall 2020

f) Anticipated completion time:

The certificate is intended to be completed within the Kinesiology Major and could also be completed within two years by professionals who possess a bachelor's degree in Kinesiology, returning to the program to update their training.

g) Summary of the proposed program

- **Aims, goals, and objectives:**

Kinesiology is both a field of study and a profession that provides services to a broad spectrum of sectors including healthcare, workplace health and wellness, and sport. *Kinesiologists specialize in programming exercise to enhance health, prevent chronic disease, rehabilitate from injury and disease, and enhance physical performance.* Their training and skill in exercise programming distinguishes them from similar allied health professions such as physiotherapy, chiropractic, and massage therapy, who specialize in passive and manual therapies such as ultrasound or massage. Active rehabilitation, in which exercise is used to restore function, is increasingly recognized as essential to recovering from injury and disease, as compared to passive and manual techniques.

Approximately twenty percent of SFU kinesiology majors become members of the BC Association of Kinesiologists and pursue kinesiology as a profession after graduation. This is comparable to membership rates in other provincial associations and the Canadian Kinesiology Alliance (CKA). The main credential to become a kinesiologist is a bachelor's degree in kinesiology, such that the Kinesiology Major at SFU serves as a professional degree. The Department of Biomedical Physiology and Kinesiology (BPK) therefore encourages our students to obtain the professional skills, knowledge, and external certifications that will enable them to compete for jobs and to serve in a competent and confident manner once employed.

The overarching goal of this proposal is to consolidate the current course offerings into a career-focused Certificate that meets the demands of all stakeholders including students, community-based stakeholders, and SFU. The program will meet the following specific objectives:

- **For students:**
 - Meet the educational requirements necessary to become practicing members of the BC Association of Kinesiologists.
 - Meet the requirements to register as a kinesiologist in Ontario (COKO), where kinesiology is a regulated health profession, and provide enhanced preparation so students can serve as competent and confident professional kinesiologists within interdisciplinary health care teams in BC.
 - Enhance mastery of clinical skills through significant experiential learning through hands-on labs, practicums, co-operative education work terms, internships and volunteer work.

- Provide pedagogy on professionalism and career planning, which have been identified by BPK students and an external review as an area requiring development.
- For Community-based stakeholders (employers, sector leaders, general public):
 - Satisfy employer demand for highly trained kinesiology professionals
 - Meet the needs of current and future labour markets
 - Leverage and enhance the emerging recognition of kinesiology as a profession, in particular the abilities and scope of practice of kinesiologists and the benefits they are able to provide.
- For SFU:
 - Engage alumni and community stakeholders to foster the professional development of students and the growth of the kinesiology profession.

In the past, BPK offered an opportunity for students to study and apply their knowledge in the specialized area of Health and Fitness. However, the Health and Fitness Studies Certificate lacked training in the transferable skills necessary for effective kinesiology practice. The proposed Professional Kinesiology Certificate is a targeted offering of courses directed at the preparation of students for careers in Personal Training, Strength and Conditioning, Disability Case Management, Active Rehabilitation and Kinesiology, and will replace the Health and Fitness Studies Certificate.

The main changes featured in the Professional Kinesiology Certificate are additional required upper-division courses, substantial experiential education by working in the community, and professional certification as a Personal Trainer by a nationally recognized organization. Within these courses, students will fulfill all the academic requirements necessary to become certified as Personal Trainers through the Canadian Society for Exercise Physiology or Canadian Fitness Education Services. Personal training certification enables the students to work in a variety of workplaces with healthy adult populations so they can practice many of the skills they will be expected to employ as kinesiologists.

The need for aspiring kinesiologists to be well trained in clinical skills motivates the experiential education component of the Certificate, which is its most prominent feature. The experiential learning component is achieved in several ways. First, several BPK courses feature hands-on laboratories, e.g. BPK 143 Exercise: Health and Performance, BPK 241 – Sports Injuries- Prevention and Rehabilitation, and practicum placements, e.g. BPK 343 – Active Health: Assessment and Programming. In addition, the Certificate will require either two

semesters (eight months) worth of full-time co-operative education work terms, totaling a minimum of 840 hours or equivalent experiential education. This component provides community-based experiential learning that will enhance student engagement when they return to the classroom and will also satisfy external certification requirements for practical hours in the field.

Because kinesiology is a professional degree, we continually revise our curriculum to ensure that students are prepared both for today's labour market and those of the future. We engage with alumni, employers, organizations offering professional certifications, and academic colleagues. As a relatively new profession, kinesiology has historically struggled with recognition and understanding amongst stakeholders about the abilities of kinesiologists and the benefits they bring to the sectors they serve.

The historical lack of recognition is now reversing as kinesiology is becoming increasingly recognized as a bona fide and distinct healthcare profession. For example, the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA) in their 2014 position paper entitled 'The role of Kinesiologists and the promotion of Physical Activity and Exercise in the Canadian Health Care System' emphasized the importance of exercise in preventing and managing disease and injury and the integral role Kinesiologists play, as exercise experts, within the interprofessional health care/promotion team. The Ontario Government approved the registration of Kinesiologists as health professionals in 2007. The requirements for registration as a kinesiologist in Ontario are set by the College of Kinesiologists of Ontario (COKO). As of April 1, 2019, ICBC has recognized the important role kinesiologists play in actively rehabilitating patients back to their activity of daily living post injury. ICBC has increased the hourly rate from \$50 per hour to \$78, added a \$138 payment per assessment visit and pre-approved 12 sessions with a kinesiologist post-accident, with the option to request more, if needed.

The chairs of Kinesiology programs at universities across British Columbia are currently (Summer 2019) writing a consensus statement describing the important roles for kinesiologists as health care professionals in BC, including the competencies, areas of practice, and the unique contributions of kinesiologist. This document will serve to support the movement of kinesiologist towards recognition as a health care profession in British Columbia.

This reversal in recognition is taking time to spread to students and employers.

For example, some students fail to adequately plan their university education to capitalize on the opportunities to develop as professionals. The Canadian Kinesiology Alliance (CKA) recently stated that kinesiology students across Canada are unaware of the structure of professional kinesiology in Canada. In addition, some employers fail to recognize, distinguish, and hire the students who are best prepared for the workplace. The Professional Kinesiology Certificate seeks to leverage and enhance the emerging recognition of kinesiology by all stakeholders by providing a well-defined pathway for those students who desire to utilize their degree to become kinesiologists, and provide employers with a clear indication that graduates of this program are prepared to enter the workforce as professionals.

- **Contribution to the mandate and strategic plan of the institution:**

The proposal addresses the SFU vision of being research-driven, student-centered and community-engaged by applying the latest research in the classroom, the latest technology in the field/industry and meeting the career development needs of students by engaging them in experiential education opportunities on campus and in the community.

The certificate proposes to leverage existing resources such as courses, co-operative education, practicums, and volunteer opportunities that engage students with the professional community. The certificate will address students' desire to complete programs with purposeful, career-ready content and will provide employers with students who have the ability to translate knowledge into practice.

The proposed certificate is one aspect of BPK's plans to meet the recommendations of the last BPK external review, which stated;

"It is further suggested that existing courses incorporate more information on research, knowledge translation, and career opportunities to give the students the perspective to develop skills with an appreciation for the spectrum of career and professional goals available to them."

Over the past few years, BPK has worked to embed external certifications into the applied courses within our Kinesiology major program, assisting our students with career development while they are still at SFU. Our upper-division course in fitness assessment and exercise prescription (BPK 343) includes significant laboratory instruction as well as a practicum within a professional organization. Recent additions to the course include the opportunity for certification in personal training and weight training. The course also features increased coverage of functional movement analyses, now a standard expectation in the industry/field.

The Professional Kinesiology Certificate provides students with a credential that demonstrates that they have met industry standards for an exciting and dynamic career. It will also assure employers that the students are comfortable working with clients and will have a shortened learning curve once they start work.

- **Linkages between program outcomes and curriculum design:**

The learning outcomes for the Professional Kinesiology Certificate focus on three themes of professionalism, communication, and technical knowledge and skills.

The specific outcomes include:

Professionalism:

- Adopt an attitude of professionalism: behave ethically, treat each client respectfully and with the mindset of serving their needs, and a commitment to life-long learning in the discipline.
- Practice within the scope of practice of a kinesiologist and refer to another professional when justified.
- Communicate with employer to understand and meet their expectations.

Communication:

- Effectively communicate with clients, team members, supervisor and other third-party stakeholders, e.g., ICBC, WorkSafeBC, insurance providers.
- Apply counseling techniques to educate clients about their health and to help motivate them to change their behaviours to optimize health.
- Communicate and work effectively with other health professionals within integrated care teams such as physiotherapists and physicians .
- Document client progress and concerns via charting, report writing and/or other written communication as required.

Technical skills and knowledge:

- Individualize exercise prescription and programming by considering user needs, limitations and capabilities.
- Optimally employ equipment and facilities to maximize client comfort, safety, and exercise effectiveness.
- Assess human movement and correct dysfunctional movement.
- Employ best-practices in instructing, observing, and giving feedback on exercise technique.
- Apply evidence-based practice in servicing clients.

These outcomes will be met through a student-centered learning environment, engaging a variety of teaching tools from within courses and professional organizations:

- Experiential learning through practicum placements, co-operative education work terms, internships and volunteer work in professional organizations.
 - Active Learning
 - Group activities
 - Laboratory activities
 - Case Studies
 - Lecture
-
- **Potential areas/sectors of employment for graduates or opportunities for further study:**

Personal Training, Strength and Conditioning, Active Rehabilitation, Disability Management, Kinesiology and other careers in health and wellness. Graduates would also be well positioned to pursue graduate degrees in related areas, particularly in the field of exercise physiology, for which graduate training and more advanced certification is typically required or recommended.

- **Delivery methods:**

All of the BPK courses are taught regularly and consist of lecture/lab/tutorial content.

CPR and First Aid Certification are offered regularly and available through many outside agencies, some on campus.

The Department of BPK has arranged for SFU courses to satisfy CSEP and CFES requirements for course challenge of the related certifications. Students can apply for certification upon completion of the listed courses. It is anticipated that the listed courses would be completed by the third year of a four-year major program.

BPK co-operative education has consistently placed about eighty students per year in professional-kinesiology-type positions for the last ten years. These opportunities will cover the needs of our anticipated twenty-five certificate students per year.

Program strengths:

The Professional Kinesiology Certificate combines existing elements available to BPK students into an identifiable package that provides exceptional training and preparation for a career in kinesiology. Employers will be involved in the career preparation of certificate students and the certificate will clearly identify the students who are ready for professional engagement.

- **Level of support and recognition:**

BC Association of Kinesiology (BCAK) Executive Director, Daryl Reynolds, reviewed this proposal and 'applaud(s) the approach being taken with the certificate' and felt it was 'a well thought out plan' that 'correlates with the requirements established by COKO' (College of Kinesiologists of Ontario) for registration of kinesiologists as health professionals.

The Canadian Council for Physical Education and Kinesiology Administrators (department chairs from universities across Canada) provided unanimous support for the proposal at the annual general meeting in Banff, June 2017. The proposed program directly addresses several of the concerns raised over the course of the meeting regarding the shift to Kinesiology as a registered profession in Ontario and a statement from the Canadian Kinesiology Alliance regarding low awareness of professional standards and professional preparation of Kinesiology students within undergraduate programs across the country.

Letters of support for the program are also included from the following;

1. Minda Chittenden BSc (Kin), MA (Gero), BCAK Practicing Kinesiologist, Canadian Kinesiology Alliance Executive
2. Judy Village, PhD, CCCPE, BCPE, President, Association of Canadian Ergonomists

- **Related programs:**

There are several lower-division certificates and diplomas in the area of Health and Fitness at various institutions in BC. These programs are similar to our currently suspended Health and Fitness Studies Certificate. Our proposal to require upper-division practical courses and extensive experiential education through practicums, co-operative education, internships and/or volunteer work makes the proposed program unique at the undergraduate level.

The University of Toronto, Brock University and Lakehead University have recently launched Professional Kinesiology programs at the graduate level. The graduate level programs are structured in a similar manner to ours, requiring extensive practical experience outside of the classroom. These programs are targeting professionals with gaps in their education or experience. The College of Kinesiologists of Ontario, who approves the registration of Kinesiologists as health professionals in Ontario, recommended that these institutions keep their programs at the undergraduate level, as we are proposing.

There are currently no Professional Kinesiology programs at the undergraduate or graduate level in British Columbia. This certificate will position SFU as a clear leader in this developing field.

h) Contact information:

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2 Credential Recognition and Nomenclature

2.1 Post-secondary recognition

The name of the certificate distinguishes our requirements and level of expectations from current health and fitness certificates focused on lower division courses.

The program requirements align with the experiential education and course requirements for similarly named graduate level programs in Ontario. Program requirements also align with the requirements to practice as a registered kinesiologist in Ontario, which is a bachelor's degree in Kinesiology.

Discussions with the Chair of the Kinesiology program at Brock University (June 2017 CCUPEKA meeting in Banff) illustrated strong support for the design of our program at the undergraduate (rather than graduate) level, as well as our use of the term Professional Kinesiology.

2.2 Industry/employer recognition

Extensive and ongoing consultation and discussions with the BC Association of Kinesiologists regarding the requirements for practicing kinesiologists moving forward. BPK Kinesiology Majors are recognized by BCKA for membership.

Ongoing agreement with Canadian Society for Exercise Physiologists to recognize BPK courses to for certification as a Personal Trainer.

The following letters of support for the proposal from employers of Kinesiologists in the lower mainland have been attached;

1. Fabio Feldman, PhD, Director, Clinical Quality and Patient Safety, Fraser Health Authority, Adjunct Professor, Department of BPK, SFU
2. Lisa Northrup BSc (Kin), CSCS, Manager Strength and Conditioning Department Fortius Sport and Health
3. Ermin Pagrakhan, C. Ped (C) Director of Store Operations, Kintec Footwear and Orthotics
4. Kris Schjelderup, Owner Innovative Fitness Port Moody and Coquitlam
5. Charlene Wharton, Director of Operations, Occupational Therapy Consulting – Lifemark

3 Curriculum/Program Content

3.1 Program structure

Lower Division Units – 18

Upper Division Units – 13

Evaluations include written exams, practical laboratory exams, laboratory reports, case study group projects, three-day dietary analysis and quizzes.

The following documentation must be provided to and approved by the BPK Department Advisor prior to applying for graduation.

- Bachelor's degree in Kinesiology (or completion of requirements for graduation)
- A current cardiopulmonary resuscitation (CPR) certificate
- A current First Aid Certificate.
- Student membership in the BC Association of Kinesiologists
- Successful granting of at least one of the following external personal training certifications.
 - Canadian Fitness Education Services – Personal Training
 - Canadian Society for Exercise Physiology – Certified Personal Trainer
- Completion of eight months of cooperative education in a related area approved by the BPK cooperative education coordinator, or equivalent. Students are required to apply to the BPK advisor to have outside employment evaluated as the equivalent for this requirement.

3.2 Core courses

BPK 110 - Human Nutrition: Current Issues (3)

An introduction of the principles of human nutrition with an emphasis on topics of current interest. The material is presented in a Canadian context to focus on nutrition practices and problems in this country. Students will gain an understanding of factors affecting food selection and the role of nutrition in maintaining good health. Students will develop the ability to discriminate between reliable and unreliable information on the subject of food and nutrition. Students with credit for KIN 110 may not take **BPK 110** for further credit. Breadth-Science.

BPK 142 – Introduction to Biomedical Physiology and Kinesiology (3)

Survey of theories and laboratory procedures for assessing human health status and physical performance, including biomechanics, body composition, development, environmental physiology, ergonomics, exercise physiology and motor learning. Functional anatomy and physiology of the cardiovascular, nervous, respiratory, skeletal and skeletal muscle systems in relation to physical activity are explored. Prerequisite: One of Grade 12 Anatomy and Physiology, Biology, Chemistry or Physics with a grade of C or better; or one of BPK 105, BPK 110, BPK 143, BISC 100 or HSCI 100 with a grade of C or better. Breadth-Science.

BPK 143 - Exercise: Health and Performance (3)

Introduces the student to exercise physiology. Focuses on personal exercise prescription to improve aerobic capacity, muscular strength and endurance, and flexibility. Also discusses athletic conditioning, e.g. speed and power training. The effects of nutritional and environmental factors on exercise and the role of exercise in weight control and stress management are considered. Prerequisite: Recommended: medical clearance from a personal physician. Students with credit for KIN 143 may not take this course for further credit. Breadth-Science.

BPK 180W – Introduction to Ergonomics (3)

Intended for students with a potential interest in ergonomics or human factors. The course surveys the design of work, the workplace environment, information systems, and consumer products. Topics include musculoskeletal disorders, manual materials handling, workplace design, organization of work, design of human/machine interfaces, environmental ergonomics, industrial design, and legal and social issues. Prerequisite: Grade 12 Biology or Physics, Grade 12 Math. Students with credit for BPK 180 may not take this course for further credit. Writing.

BPK 205 - Introduction to Human Physiology (3)

An introductory survey of human physiology with an emphasis on mechanisms of regulation and integration. Anatomy of structures will be detailed only when it is critical to a functional understanding. Although this is intended as a survey course, some topics will be covered in reasonable detail in order to give insight into mechanisms of function. BPK (or KIN) 208 may not be used as a substitute for BPK (or KIN) 205 by students in the Kinesiology Major and Honors programs. Kinesiology majors and honors students who have taken BPK (or KIN) 105 must also take BPK (or KIN) 205. For students taking both of these courses, credit will only be given for BPK (or KIN) 205. Prerequisite: BISC 101, CHEM 281, PHYS 101 and 102. Students with credit for KIN 205 may not take this course for further credit.

BPK 241 - Sports Injuries - Prevention and Rehabilitation (3)

Includes delineation of the role of the sports therapist and will study the structural and functional characteristics of the body with regard to the prevention of injury in sport. A first aid approach to athletic injuries will be developed with practical experience in routine treatments. Prerequisite: BPK (or KIN) 142. Students with credit for KIN 241 may not take this course for further credit.

BPK 310 - Exercise/Work Physiology (3)

The study of human physiological responses and adaptations to acute and chronic exercise/work. Cardiorespiratory, cellular and metabolic adaptations will be studied and discussed in detail. Prerequisite: BPK (or KIN) 205, MBB 201 (or 231). Recommended: BPK (or KIN) 201. Students with credit for KIN 310 may not take this course for further credit.

BPK 326 - Functional Human Anatomy (4)

Pursues a systematic study of human anatomy with emphasis on functional applications. A comparative study of organs and body systems using laboratory dissections to provide an understanding of the three-dimensional organization of the human body. Participation in all labs is required. Prerequisite: BPK (or KIN) 142, 201, 205 and at least 60 units. Behavioral Neuroscience Major and Honours students req BPK (or KIN) 142, 205, PSYC 280 and at least 60 units. Students with credit for BPK (or KIN) 324 or BPK (or KIN) 325 or KIN 326 may not repeat this course for further credit.

BPK 340 - Active Health: Behavior and Promotion (3)

Relationships among health, physical activity, and other health-associated behaviors are examined. In addition, the theories and models of health behavior, in the context of intervention and promotion strategies, are discussed. Pertinent background information is provided, concerning the influence of fitness on various disease states, as well as the epidemiology of health and exercise behaviors. Prerequisite: BPK (or KIN) 142, STAT 201 (or PSYC 201). Recommended: BPK (or KIN) 140. Students with credit for KIN 340 may not take this course for further credit.

BPK 343 - Active Health: Assessment and Programming (3)

An extension of BPK (or KIN) 143, Exercise Management, designed to provide students with an opportunity to appreciate principles of exercise leadership, assess individual fitness needs, design programs and monitor effects of prescribed exercise. The course includes a 34-hour practicum. Prerequisite: BPK

(or KIN) 142, 143 and 205; STAT 201 or an equivalent statistics course, BPK (or KIN) 340 (may be taken concurrently). Students must successfully complete a Criminal Record Check prior to enrolling. Students with credit for BPK (or KIN) 342 or KIN 343 may not take this course for further credit. Quantitative.

Strongly Recommended

BPK 443 - Advanced Exercise Prescription (3)

This course covers evidence-based practice and quantitative modeling skills for prescribing effective exercise programs to any individual who has a specific health, rehabilitation or performance goal. Programming considerations for various special populations (e.g., those with chronic disease, elite athletes) will be emphasized through laboratory-based case studies representing diverse professional settings such as active rehabilitation, strength & conditioning and clinical exercise physiology. Prerequisite: BPK (or KIN) 304W, 310 and 343. Students with credit for BPK 344 or BPK 423-Advanced Exercise Prescription may not take this course for further credit.

3.3 Existing and new courses

No new courses are required for the program.

Program Requirements

all of

BPK 110 - Human Nutrition: Current Issues (3)

BPK 142 – Introduction to Kinesiology (3)

BPK 143 - Exercise: Health and Performance (3)

BPK 180W- Introduction to Ergonomics (3)

BPK 205 - Introduction to Human Physiology (3) +

BPK 241 - Sports Injuries - Prevention and Rehabilitation (3) +

BPK 310 - Exercise/Work Physiology (3) +

BPK 326 - Functional Human Anatomy (4) +

BPK 340 - Active Health: Behavior and Promotion (3) +

BPK 343 - Active Health: Assessment and Programming (3) +

+ courses have additional prerequisites

Strongly Recommended

BPK 443 - Advanced Exercise Prescription (3)

3.4 Curriculum and program goals

Professional Kinesiology Certificate – Educational Goals

"A graduate from this program is able to"

A] Foundational Knowledge

1. Explain the individual and interactive structure, metabolism, function and regulation of major organs and organ systems as they pertain to an individual's health, ability to perform physical tasks, and ability to adapt to diverse environments.

2. Explain the fundamental concepts underlying disciplines related to kinesiology and health such as anatomy, physiology, exercise physiology, biomechanics, neuromechanics, rehabilitation, motor learning, motor control, psychology, nutrition and ergonomics.

B] Application of Knowledge

3. Apply appropriate techniques to assess personal histories, fitness and risks and assess and coach movement technique, related to health and injury.

4. Apply foundational knowledge to design and deliver exercise programs for healthy and unhealthy individuals or groups to prevent or manage injury, promote physical literacy, and enhance physical performance.

5. Apply foundational knowledge to deliver counseling, active rehabilitation or nutrition programs for healthy, unhealthy and at-risk individuals or groups, to prevent dysfunction and/or enhance physical performance.

6. Apply foundational knowledge to critically analyze organizational health promotion, ergonomic, or rehabilitation strategies and policies.

7. Identify major methods of inquiry in kinesiology, and utilize these approaches and techniques to identify, isolate, and address problems.

8. Demonstrate command of material that probes current research within one or more of the kinesiology subdisciplines e.g. anatomy, physiology, exercise physiology, environmental physiology, biomechanics, neuromechanics, rehabilitation, motor control, ergonomics.

C] Integration of Knowledge

9. Integrate principal methods of inquiry in kinesiology to evidence-based practice and scientific problem solving of discipline-specific questions and challenges.

10. Critically evaluate the scientific integrity of information by detecting logical flaws and misdirection in an argument and selecting information for decision-making based on its validity.

D] Communication Skills

11. Demonstrate the ability to read, critically appraise and present information in discipline-specific forms.

12. Communicate evidence-based engaging scientific arguments in oral presentations, class discussions and written papers.

13. Use relevant scientific, technological, and statistical concepts, data and skills to explain and clarify ideas to diverse target audiences.

14. Demonstrate empathy and effective interviewing skills in counseling behaviour change as it pertains to a healthy lifestyle.

15. Demonstrate empathy, understanding and ethical conduct when considering or performing evaluations/research involving healthy humans or patient populations.

E] Autonomy and Professional Capacity

16. Demonstrate critical, creative, and practical thinking to function autonomously as a self-directed learner throughout life.

17. Work effectively as part of a team and provide leadership when appropriate.

18. Demonstrate personal responsibility, ethical decision making, academic integrity, and social responsibility.

19. Complete the academic and practical requirements of discipline-specific provincial, national and international certifications.

20. Differentiate the primary professional settings in which kinesiologists operate, e.g. personal training, group fitness, ergonomics, exercise physiology, active rehabilitation, and strength and conditioning.

3.5 Work experience/field/practicum placement

The experiential education component is the most prominent feature of the proposed Certificate and can be obtained in several ways. First, through BPK courses featuring hands-on laboratories (e.g., BPK 142 Introduction to Biomedical Physiology and Kinesiology, BPK 143 Exercise: Health and Performance, BPK 241 – Sports Injuries) and practicum placements (e.g., BPK 343 Active Health: Assessment and Programming). In addition, the Certificate will require either 2 semesters (eight months) of full-time co-operative education placements, totaling a minimum of 840 hours, or equivalent experiential education. This component provides community-based experiential education that will enhance student engagement when they return to the classroom and will also satisfy professional certification requirements for practical hours in the field.

Practicum placements are evaluated by supervisors within the community using a BPK designed rubric.

Co-operative education work terms are evaluated by BPK Co-operative education. Co-operative education includes training in professionalism through skill transfer and self-directed learning during orientation courses that focus on effective communications, active listening and feedback, employment related communication tools (cover letter, resume and effective interviewing), online presence (Linkedin), workplace culture, teams in the workplace and the maintenance of workplace relationships. (SFU Co-operative Education Curriculum)

Equivalency of work experience will go through an application procedure with the BPK advisor that will be reviewed by the Kinesiology sub-committee of the BPK Undergraduate Program Committee.

4 Program Resources

4.1 Target audience and enrolment plan

The target audience for the proposed Professional Kinesiology Certificate is about twenty percent of current BPK students in the Kinesiology Major who are interested in pursuing careers in personal training, active rehabilitation, strength and conditioning or kinesiology upon graduation. The skills and knowledge obtained through the Certificate are transferable to other areas that our students pursue careers such as corporate wellness, sport coaching, disability management, health promotion, and work within health authorities and government.

A secondary target audience is professionals practicing in the area who want to update or augment their knowledge and skills to meet industry goals and/or achieve the requirements for certification or continuing-education credits required by professional associations. One of the recommended courses for the Certificate, BPK 443 Advanced Exercise Prescription, has already attracted working professionals to return to SFU to take the course.

Enrolment will be by direct admission from high school (or from professions) and internal transfer. The admission requirements will be the same as for the Major in Kinesiology. There will be an option for students already registered at SFU to transfer into the program, as long as they fulfill the qualification criteria.

In 2017, there were about 150 students in the Health and Fitness Studies Certificate (suspended). Approximately 80 of those students would qualify for the more advanced course work requirements of the proposed certificate.

The required courses in the proposed certificate currently attract from 100-200 students each per year.

Within the most applied course in the proposed program, BPK 343 - Active Health: Assessment and Programming, we have provided the opportunity for students to become certified in screening functional movement, personal training and weight training through professional organizations. Approximately fifteen to twenty-five students per year take these opportunities to build their career while undergraduates.

BPK co-operative education fills about eighty positions per year within professional kinesiology employment opportunities.

Initially, it is anticipated that approximately twenty-five students per academic year would be attracted to the program. This estimate is based on:

- Student interest in external certification within our courses (15 – 25 per academic year)
- Student interest in BBK 443 Advanced Exercise Prescription course (20 per academic year).
- Student interest in our current Health and Fitness Certificate, which requires no external certification or co-operative education/internships? and few upper division courses. (80 per academic year)
- Co-operative education positions filled in the area of Professional Kinesiology. (about 80 per year)

4.2 Resources

The current Health and Fitness Studies Certificate (suspended admission) will be removed, following current student graduation.

All courses required in the proposed program are currently being taught.

No new resources will be required.

5 Program Review and Academic/Administrative Oversight

Program authors are members of the Kinesiology subcommittee of the BPK Undergraduate Program Committee, which reviews all programs in the department. We are also in contact with the national certifying bodies for ongoing approval of our course content in order for students to challenge the external certifications.

Canadian Society for Exercise Physiology does a yearly review of the course content to challenge their Certified Personal Trainer exam.

BCAK currently grants automatic approval for all our Kinesiology majors and is informed of and approves the proposed program.

Faculty members of BPK are consulting with the BCAK on the registration of Kinesiologists as health professionals in BC.

All academic units at SFU are subject to external review every seven years.

6 Program Consultation

Program Manager, Co-operative Education / Work Integrated Learning for BPK and HS, Darleen Bemister, was instrumental in providing feedback and input into the design and expectations for the program. She also consulted on number of co-operative education positions filled yearly in the area of Professional Kinesiology. Discussion also included the prerequisite online requirements for co-operative education and the number of hours expected for a typical full-time position. Darleen is also an active member of the BPK Undergraduate Program Committee. (Spring 2017 to Fall 2019).

BC Association of Kinesiologist Executive Director Daryl Reynolds has been involved on an ongoing basis in providing feedback on the design and expectations of the Certificate. (Spring 2017 to Fall 2019)

Canadian College and University Physical Education and Kinesiology Administrators (CCUPEKA) membership consulted in person on program design and expectations at annual meeting Summer 2017.

7 Evidence of Student Interest and Labour Market Demand

This certificate represents a coordinated program of study on a full- or part-time basis in the settings in which practicing kinesiologists typically find employment, namely Personal Training, Strength and Conditioning, Active Rehabilitation, and other careers in health and wellness. Graduates would also be well positioned to pursue graduate degrees in related areas, particularly in the field of exercise physiology, for which graduate training and more advanced certification is typically required or recommended.

Work BC estimates the demands for the following categories:

- Occupations in therapy and assessment (NOC 3237) – growth demand excellent.
- Other professional occupations in therapy and assessment (NOC 3144) – growth demand excellent.
- Assisting occupation in support of health services (NOC 3414) growth demand excellent.

The professional designations, course requirements and hands on experience within the proposed certificate will enhance the competitiveness of our students for employment and foster learning throughout their degree.

8 Appendices

8.1 Calendar entry

Department of Biomedical Physiology & Kinesiology | Faculty of Science
Professional Kinesiology
CERTIFICATE

This certificate represents a coordinated program of study on a full- or part-time basis in the settings in which kinesiologists typically find employment. The program provides in-depth knowledge in the functions and adaptations of the healthy human body at rest and during physical exertion, and practical skills for assessing and prescribing exercise to enhance health, fitness, performance, or rehabilitation.

Admission Requirements

Admission is governed by the University's admissions regulations. After University admission, submission of a completed program approval form to the Biomedical Physiology & Kinesiology academic advisor is required for formal acceptance in the program.

The certificate is normally completed within five years of admission to the certificate program.

Completion of the courses will provide students with the academic and practical experience required to challenge the following external certifications:

- Canadian Fitness Education Services – Fitness Knowledge
- Canadian Fitness Education Services – Weight Training Instructor
- Canadian Fitness Education Services – Personal Training
- Canadian Society for Exercise Physiology – Certified Personal Trainer
- Functional Movement Screen – Level 1

Units applied to one SFU certificate may not be applied to another certificate or diploma.

Prerequisite and Required Course Grades

Students enrolling in biomedical physiology and kinesiology courses must have a grade of C- or better in prerequisite courses. Students enrolled in this certificate program must have a grade of C- or better in all required and prerequisite courses.

Program Requirements

all of

BPK 110 - Human Nutrition: Current Issues (3)
BPK 142 – Introduction to Kinesiology (3)
BPK 143 - Exercise: Health and Performance (3)
BPK 180W - Introduction to Ergonomics (3)
BPK 205 - Introduction to Human Physiology (3) +
BPK 241 - Sports Injuries - Prevention and Rehabilitation (3) +
BPK 310 - Exercise/Work Physiology (3) +
BPK 326 - Functional Human Anatomy (4) +
BPK 340 - Active Health: Behavior and Promotion (3) +
BPK 343 - Active Health: Assessment and Programming (3) +
+ courses have additional prerequisites

Strongly Recommended

BPK 443 - Advanced Exercise Prescription (3)

A minimum 2.50 CGPA calculated on courses counting toward the certificate is required for graduation.

The following documentation must be provided to and approved by the BPK Department Advisor prior to applying for graduation.

- Bachelor's Degree in Kinesiology (or completion of requirements for graduation)
- A current cardiopulmonary resuscitation (CPR) certificate
- A current First Aid Certificate.
- Student membership in the BC Association of Kinesiologists
- Successful granting of at least one of the following external personal training certifications.
 - Canadian Fitness Education Services – Personal Training
 - Canadian Society for Exercise Physiology – Certified Personal Trainer
- Completion of eight months of cooperative education in a related area approved by the BPK co-operative education coordinator, or equivalent. Students are required to apply to the BPK advisor to have outside employment evaluated as the equivalent for this requirement.

Please note that credits applied to the Professional Kinesiology Certificate may not be applied to the Occupational Ergonomics Certificate or any other certificate offered at Simon Fraser University. For those who wish to complete both the Professional Kinesiology Certificate AND the Occupational Ergonomics Certificate, it is best to consult the BPK Advisor for assistance in course planning.

8.2 Market analysis – student interest and labour market demand

Letters of support from industry regulators and employers are attached, they are listed under 8.3.

8.3 Consultation comments and letters of support

Please find the following letters of support attached in a single PDF document – BPK- PKC Letters of Support;

1. Minda Chittenden BSc (Kin), MA (Gero), BCKA Practicing Kinesiologist, Canadian Kinesiology Alliance Executive
2. Judy Village, PhD, CCCPE, BCPE, President, Association of Canadian Ergonomists
3. Fabio Feldman, PhD, Director, Clinical Quality and Patient Safety, Fraser Health Authority, Adjunct Professor, Department of BPK, SFU
4. Lisa Northrup BSc (Kin), CSCS, Manager Strength and Conditioning Department Fortius Sport and Health
5. Ermin Pagrakhan, C. Ped(C) Director of Store Operations, Kintec Footwear and Orthotics
6. Kris Schjelderup, Owner Innovative Fitness Port Moody and Coquitlam
7. Charlene Wharton, Director of Operations, Occupational Therapy Consulting – Lifemark

8.4 Resources

No new resources required.

8.5 Financial plan (only if additional resources required)

N/A

8.6 Abbreviated curriculum vitae for faculty

N/A



3007 28th Ave., Vernon B.C. V1T 5H5 • Ph: (250) 542-3089
3022 Tait Street, Kelowna B.C. V1Y 2H5 • Ph: (250) 868-3086
101 – 1315 Summit Dr., Kamloops B.C. V2C 5R9 • Ph: (250) 314-0097
103 – 1873 Main St., Penticton B.C. V2A 5H2 • Ph: (250) 868-3086

November 4, 2019

To Simon Fraser University,

I am writing to support the development of the Professional Kinesiology Certificate at SFU.

I am a graduate from SFU Kinesiology, with a Certificate of Health and Fitness studies and I completed 5 Co-op terms under Nancy Johnston. I have a Masters of Gerontology from Keele University in the UK, and currently work for Meridian Rehabilitation in the Okanagan. I am a practicing Kinesiologist with the BCAA, and the BCAA's representative on the Canadian Kinesiology Alliance. I provide 1:1 rehabilitation and also med-legal kinesiology work; I was declared an expert witness (in kinesiology) by the BC Supreme Court in 2013. For 12 years, I have been hiring, and training, kinesiology graduates from all the major BC universities, and have hired 4 SFU Coop students. I have found the Co-op graduates from SFU are the most prepared for a career as practicing kinesiologists and I strongly support that SFU has created a Professional Kinesiology Certificate to provide students more hands-on, best-practice, therapeutic techniques to their kinesiology degree. By doing so, SFU is continuing to show their strong leadership in the field of Canadian kinesiology and demonstrating their understanding of the needs of BC employers, and kinesiology students who want to work as practicing kinesiologists in the community. Lastly, the creation of this stream of training at SFU, allows students to become regulated health professionals in Ontario, and moves kinesiology one step closer to becoming a regulated health profession in BC.

In BC, there is a need for capable kinesiologists who wish to work in rehabilitation, chronic disease management, and occupational rehabilitation. As I am sure you are aware, in April of this year, ICBC legislated that kinesiology services will be automatically provided to anyone injured in a motor vehicle accident; kinesiology has joined the ranks of physiotherapy, massage therapy, clinical counselling and chiropractic treatments. People can self-refer the moment they are in an accident. Great West Life, Manulife, Sunlife, WorkSafeBC BC, and many other 3rd party insurers hire kinesiologists to rehabilitate individuals and return them to their pre-injury profession. These same companies are looking for kinesiologists to work in occupational rehabilitation, injury entitlement, and return to work programming. Work-ready kinesiologists are needed to fill these jobs. Kinesiology graduates that wish to become practitioners of active rehabilitation require a strong education in human physiology, anatomy, biomechanics, and the health benefits of exercise. In addition to this, they need to demonstrate the ability to:

- perform a baseline physical assessment to determine functional limitation and possible barriers
- write a report to summarise their assessment findings, treatment plan, and timeline
- assess ergonomics of activity/job that the person needs to return to
- design and teach a therapeutic exercise program to achieve a functional goal
- gradually return a person to pre-injury function

These skills exemplify a rehabilitation philosophy that is the foundation of the 3rd party rehabilitation industry, but absent in many health profession graduates who are being trained in primarily passive therapies and manual techniques. When SFU provides this theoretical framework to students, and matching practical skills (e.g. technical writing, plain language, how to assess function), it will launch graduates into their professional careers with a sound foundation of theory, and practice, that employers can build on. This model requires the help of alumni, and community stakeholders, to assist SFU to provide the necessary experiential education. As an alumnus, and active community stakeholder, I can confidently say that we are prepared to support the students of this program, to make it a success. I am very excited that students of SFU's new Professional Kinesiology Certificate will:

- Complete courses in assessment, counselling skills, ergonomics, and exercise programming
- Gain 840 hours of community-based education
- Meet the requirements to register as a kinesiologist in Ontario (COKO)
- Meet the requirements to become practicing members of the BCKA and CKA

In addition to the many benefits to the students of SFU, I feel that the Professional Kinesiology Certificate will benefit the BC public, and advance kinesiology towards its goal of becoming a regulated health profession. Physicians across this province recognise a glaring need for active rehabilitation for people of all ages, injuries, and health conditions. They are looking for university-educated highly trained professionals to work with their patients in the community, in hospitals, and in care facilities. Physicians have started to hire kinesiologists to assist their patients, but the tide is just starting, and a need is growing. The creation of SFU's program is perfectly timed to send highly trained/educated graduates into a workforce that is waiting for them, to a public that is needing them, and to a health care system ready to learn the scope of a practicing kinesiologist.

I am excited to hear about this course and feel it will generate students that are confident in their abilities and career ready. It will show employers that SFU Professional Kinesiology students are the best prepared for the workplace, and it will prove to the public that kinesiologists are well trained health professionals. We look forward to welcoming SFU Professional Kinesiology Certificate graduates to our workplace.

Sincerely,



Minda Chittenden BSc (Kin) MA (Gero)
BCKA Practicing Kinesiologist
Canadian Kinesiology Alliance Executive



Association of Canadian Ergonomists
Association Canadienne d'Ergonomie

Association of Canadian Ergonomists
Association Canadienne d'Ergonomie
2-555 Hall Avenue E.
Renfrew, Ontario K7V 4M7
Toll Free/Sans frais: 1-888-432-2223
E-mail/Courriel: payments@ace-ergocanada.ca or info@ace-ergocanada.ca
Internet/Site internet: www.ace-ergocanada.ca

Dr. David Clark and Mr. Ryan Dill
Department of Biomedical Physiology
and Kinesiology
Faculty of Science
Simon Fraser University

Dear Dr.'s Clark and Dill:

Anne-Kristina Arnold has brought to the attention of the Association of Canadian Ergonomists, the proposal for a Professional Kinesiology Certificate (PKC). As the national association representing Ergonomists, we support the need for this certification for kinesiologists. We understand that students will take a first year ergonomics course (BPK180W) to increase their awareness of the role of ergonomics and workplace design in preventing and mitigating occupational injuries. The certificate does not qualify students to practice ergonomics without further education and professional experience, however the awareness of ergonomics is important for kinesiologists who may be treating people with work-related symptoms or injuries.

We would welcome students with an interest in ergonomics to become members of our Association of Canadian Ergonomists where they can obtain resources, networking and further education in ergonomics.

Thank you for the opportunity to support your new initiative.

Regards,

Dr. Judy Village, PhD, CCCPE, BCPE
President, Association of Canadian Ergonomists



Better health.
Best in health care.

Fraser Health Authority
Central City Tower
Suite 400 – 13450 – 102nd Avenue
Surrey, BC V3T 5X3

October 18th, 2019

Ryan Dill, M.Sc.
Senior Lecturer and Undergraduate Program Chair
Simon Fraser University
8888 University Dr.
Burnaby BC V5A 1S6

Dave Clarke, Ph.D.
Associate Professor
Simon Fraser University
8888 University Dr.
Burnaby BC V5A 1S6

Dear Ryan and Dave:

Re: Letter of Support for the Professional Kinesiology Certificate at Simon Fraser University

As the Director of the Clinical Quality and Patient Safety division of Fraser Health, I am pleased to express my support for the Professional Kinesiology Certificate ("PKC") at Simon Fraser University (SFU).

Fraser Health is the largest health authority in British Columbia and the 2nd largest health authority in Canada, serving over 1.8 million British Columbians, representing 35% of the province's population. We operate 12 acute care hospitals and 7,760 long-term care beds. Fraser Health is focused on outcomes, and open to evidence, new ideas and innovation. With a focus on people and quality, our purpose is to improve the health of the population and the quality of life of the people we serve.

Fraser Health and SFU have benefitted over years from a formal alliance confirmed in the 2009 Memorandum of Understanding "to further develop and integrate collaborative training, education and research programs that will promote and sustain health, healing and learning".





fraserhealth

Better health.
Best in health care.

The PKC will help in meeting our need for well-trained kinesiologists. Its course offering features a minimum of 840 hours of full-time field work and will help students gain practical clinical skills, such as, exercise programming, assessment and counseling. It is noteworthy that such training is programmed to occur by way of community-based, experiential education, including practicums and co-operative education.

I am confident that this credential will assist Fraser Health, to recognize, distinguish and hire graduates who are best prepared for the workplace; while students can plan their university education and capitalize on opportunities to develop as professionals.

I look forward to welcoming the graduates of the PKC with great enthusiasm at Fraser Health.

Sincerely yours,

Fabio Feldman, PhD.
Director, Clinical Quality & Patient Safety
Fraser Health Authority
Central City Tower
Suite 400 – 13450 – 102nd Avenue
Surrey, BC V3T 5X3
fabio.feldman@fraserhealth.ca

Adjunct Professor
Department of Biomedical Physiology and Kinesiology
Simon Fraser University



fortius

sport & health



Dear Ryan Dill,

Fortius Sport & Health supports the development of the Professional Kinesiology Certificate at SFU.

By featuring:

- Applied upper-division courses featuring exercise programming, assessment, and counselling skills.
- Substantial community-based experiential education through practicums and co-operative education.
- Career preparation through formal certification as a Personal Trainer with a national certifying body and student membership in the BC Association of Kinesiologists.

This certificate will:

- Help students plan their university education to capitalize on the opportunities to develop as professionals.
- Help employers recognize, distinguish, and hire graduates who are best prepared for the workplace.

As a SFU KIN alumni, I look forward to welcoming the graduates of the PKC into the workplace.

Sincerely,

Lisa Northrup, BSc.(KIN), CSCS
Manager – S&C Department
Strength & Conditioning Coach

Fortius Sport & Health
3713 Kensington Avenue, Burnaby BC, V5B 0A7
604.292.2502 | www.fortius.ca



To whom it may concern:

We enthusiastically support the development of the Professional Kinesiology Certificate at SFU.

As the Director of Store Operations and an SFU Kinesiology Alumni, we hire several Co-op students, Kinesiologists, and SFU Kinesiology Alumni to work in our organization each year. We recently opened our 11th location and as we continue to grow so does our need to hire.

We are constantly seeking practical-based competencies and experience in all candidates who apply. This would help us distinguish those candidates who are best suited for our type of workplace in the market.

Any applied upper-division education featuring assessment, gait analysis, treatment plan creating/education, clinical skills, and counselling skills is an asset. These assets will greatly contribute to the growth and development for the individual towards a career in Pedorthics or in Leadership Management.

We look forward to welcoming the graduates of the PKC into our workplace

Regards,

Ermin Pagtakhan, C.Ped (C)
Director of Store Operations
Kintec Footwear + Orthotics



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**PREMIUM
PERSONAL
TRAINING**

To whom this may concern,

OCTOBER 17, 2019

I am writing in strong support of the development of the Professional Kinesiology Certificate at SFU.

As a business who hires Kinesiologists, we frequently find that, although they have the general knowledge base after graduating with their degree, many applicants don't have the technical or practical skill set. This program would greatly improve these areas and set our recruits up for a higher likelihood of success from the get-go.

I also love the idea of educating students on the vast benefits and long term career opportunities in the field of Kinesiology outside of the historical rehabilitation streams of physio, chiro, massage or medical school.

Careers in Kinesiology are continuing to grow and I am very excited to see SFU being a pioneer in this field of education.

We are looking forward to future grads of the PKC in our workplace.

Kris Schjelderup
Owner: Innovative Fitness Port Moody & Coquitlam
2739 Murray Street, Port Moody
BC, Canada
V3H 1X1



October 28, 2019

To Whom it may concern:

I strongly support the development of the Professional Kinesiology Certificate at Simon Fraser University.

In reviewing the proposed program requirements of upper division courses featuring exercise programming and assessment and significant community-based experiential education through practicums and Co-operative education, I feel that a candidate who successfully completes this proposed Professional Kinesiology Certificate would be well trained and well prepared for the workplace.

Graduates of the Professional Kinesiology Certificate would be an asset to organizations such as ourselves and I look forward to welcoming them into our workplace.

Kind Regards,

Charlene Wharton
Director of Operations
OT Consulting - Lifemark