

SIMON FRASER UNIVERSITY S. 77-82

MEMORANDUM

To SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject PROPOSED PHYSICAL EDUCATION SEQUENCE IN KINESIOLOGY - NEW COURSES KIN. 343-3, 367-3, 370-3, 375-3, 467-3, 470-2, 471-2; DISCONTINUANCE OF KIN. 366-3, 466-3.

Date JUNE 16, 1977

MOTION: "That Senate approve and recommend approval to the Board of Governors, as set forth in S. 77-82, the following new courses:

- KIN. 343-3 - Fitness Appraisal and Guidance
- KIN. 367-3 - Psychology of Motor Performance and Skill Acquisition
- KIN. 370-3 - Biomechanics in Motor Learning
- KIN. 375-3 - Physiological and Developmental Basis of Motor Performance
- KIN. 467-3 - The Components of Skilled Performance
- KIN. 470-2 - Motor Activities Laboratory I
- KIN. 471-2 - Motor Activities Laboratory II

and the discontinuance of KIN. 366-3 and KIN. 466-3."

(Consideration has been given over some time to the development of an appropriate sequence of courses in the Department of Kinesiology as preparation for individuals who wish to undertake the Professional Development Program in Education with better preparation for the teaching of physical education. Intensive discussions have been held between the Department of Kinesiology and the Faculty of Education. Proposals were considered by the Senate Committee on Academic Planning with referral back to the Faculty of Interdisciplinary Studies for further consideration as the proposal was not considered necessarily to be a new program. Following further discussions and adjustments to the earlier proposals the proposed new courses and sequences of courses for use toward the Minor in Kinesiology were reviewed and approved by SCUS.

Further consideration is being given to the place of a number of these courses relative to the Kinesiology Major.

It is noted that KIN. 366 and 466 will be discontinued only if there is approval of KIN. 367 and 467. KIN. 467 is new but is not a part of the sequence proposed. SCUS approved waiver of the time requirement to permit offering of these courses as from 78-1.)

W. G. Smith

SIMON FRASER UNIVERSITY

SCUS 77-26

MEMORANDUM

Mr. H. Evans, Registrar and Secretary of SCUS.	From T.W. Calvert, Dean, Faculty of Interdisciplinary Studies.
Subject Physical Education Sequence in Kinesiology - 4	Date 6th June, 1977.

*New Courses KIN. 343-3, 367-3
370-3, 375-3, 467-3, 470-2, 471-2;
discontinue KIN. 366-3, 466-3*

As you know Kinesiology proposed a new "Special Minor" for those intending to teach Secondary School Physical Education. This was approved by the Faculty of Interdisciplinary Studies Undergraduate Curriculum Committee and forwarded to the Senate Committee on Undergraduate Studies. However, the Chairman of SCUS referred it to SCAP and it was discussed at some length by that Committee. The outcome of the SCAP discussion was that the proposal was referred back to Kinesiology with the suggestion that they consider whether a new "Special Minor" was necessary since the proposed sequence of courses would more than qualify a student for the existing Kinesiology Minor.

The Kinesiology Department has now withdrawn its proposal for a new "Special Minor" and is substituting a proposal for the addition of some new courses (KIN. 343, 367, 370, 375, 467, 470, and 471) and the dropping of two existing courses (KIN. 366, 466). This will result in a suitable sequence of courses becoming available to those who wish to teach Physical Education. Presumably the sequence would be specified as prerequisites by the Faculty of Education for those who wish to enter PDP to specialize in Physical Education.

The proposal is attached. Please place it on the agenda for SCUS.

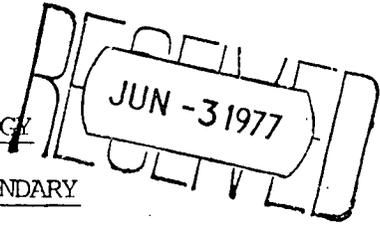
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Attachment

c.c. J. Dickinson, Kinesiology
E.W. Banister, Kinesiology
G. Kirchner, Education
J. Chase, Secretary, SCAP

Tom Calvert
Thomas W. Calvert

Waiver to permit offering 78-1.

A GROUP OF COURSES IN KINESIOLOGY
FOR THOSE INTENDING TO TEACH SECONDARY



SCHOOL PHYSICAL EDUCATION

The Kinesiology Department in consultation with the Faculty of Education will offer new theory and laboratory courses in biomechanics, motor learning and exercise for those who intend a career in teaching Physical Education. The new courses, together with existing courses will qualify students for an existing Minor in Kinesiology and will be a pre-requisite for those who want to enter PDP to specialize in Secondary School Physical Education.

The rationale for these new courses is that in organizing, managing, and teaching physical education our students are asked to apply their theoretical knowledge to teaching a variety of instructional and recreational programs in the elementary and secondary schools of this province. The existing Kinesiology courses provide a scientific background for our majors but no professional application. Our existing minors (in sports sciences and recreation) find the theoretical courses are largely inaccessible to them because of extensive science pre-requisites. The proposed courses are designed to offer a theoretical basis with a minimum of pre-requisites. The Motor Activity Labs will provide an opportunity for students to apply the theory to practical problems and to develop a proficiency in a minimum number of physical activities. A Fitness Appraisal and Guidance course will cover the practical implementation of exercise physiology theory for children and adolescents.

It is stressed that the laboratory courses will only be available to those who have taken the theory courses.

SUMMARY OF PROGRAM

LOWER DIVISION

Kinesiology 100-3	Introduction to Human Structure and Function.
Kinesiology 142-3	Introduction to Kinesiology.
Kinesiology 143-3	Exercise Management.
FPA. 120-3	Aesthetic Forms of Human Movement. (Originally KIN.144)

UPPER DIVISION

Kinesiology 320-3	Cultural Aspects of Human Movement.
Kinesiology 343-3(new)	Fitness Appraisal and Guidance.
Kinesiology 367-3(new)	Psychology of Motor Performance and Skill Acquisition. (KIN.366 will be dropped).
Kinesiology 370-3(new)	Biomechanics in Motor Performance.
Kinesiology 375-3(new)	Physiological and Developmental Basis of Motor Performance.
Kinesiology 470-2(new)	Motor Activities Lab I. (Individual)
Kinesiology 471-2(new)	Motor Activities Lab II. (Team activities)

A choice of one of KIN. 303-3; 326-3; 241-3; PSYC 355-3; S.A. 315-4; and FPA. 220-3.

Lower Division Credit:	12
Upper Division Credit:	<u>22</u>
<u>Total Credit:</u>	<u>34</u>

Six new courses are proposed which would be mandatory for the program but one old course (366) will be dropped.

DISCUSSION

This proposed sequence will make optimal use of existing courses and introduce a minimum of new courses to meet the needs of a student who wishes to teach P.E. in public schools. It is packaged as a group of courses and it is hoped that the student will combine it with a major (or minor in a B.G.S. degree) to give him another subject to teach in the school. It is considered best if P.E. can be combined with a science (e.g. Biology) or one of the humanities (e.g. History) rather than taken as an end in itself. Of course there is nothing to prevent this selection of courses being combined with a major in Kinesiology.

STRENGTHS OF THE PROPOSED SEQUENCE

The lower ^{division} courses give a general introduction to human structure and function (Kinesiology 100), measurement and evaluation (Kinesiology 142), the design of exercise programs (Kinesiology 143) and the aesthetics of movement (FPA 120). The upper ^{division} lecture courses give a background in the cultural aspects of human movement (Kinesiology 320), the psychology of performance and skill acquisition (Kinesiology 367 (new)), the biomechanics of motor performance (Kinesiology 370 (new)) and the applied physiology of exercise which will be taught in an integrated way with growth and development (Kinesiology 375 (new)). The new motor activities labs (Kinesiology 470, 471) have the motor learning, biomechanics, and exercise physiology and growth and development courses (Kinesiology 366, 370 and 375) as absolute pre-requisites and apply the theoretical knowledge to games, dance or gymnastic activities. These motor activities labs will not concentrate on teaching any particular activity but will use a number

of activities to illustrate and explore the psychological, biomechanical and physiological concepts and principles developed in the theory courses. The result will be some minimal proficiency in relevant games, dance, aquatics and other relevant physical activities and an understanding of the basics of these activities. The new exercise management course (Kinesiology 343) will provide the students with experience in designing and running exercise programs.

WEAKNESS OF THE PROPOSED SEQUENCE

At 34 credits, the sequence is relatively heavy (the minimum for a Kinesiology Minor is 24 credits). In fact it would be desirable to encourage students to elect all of the following additional courses but to limit the total credit required to complete the sequence:

KIN. 303-3	Kinanthropometry
KIN. 326-3	Functional Anatomy
KIN. 241-3	Sports Injuries
FPA.220-3	Contemporary Dance Technique and Theory
PSYC 355-3	Psychology of Adolescence and Youth
S.A. 315-4	Sociology of Leisure

It should be noted that the existing motor learning courses (Kinesiology 366,466) will be re-organized to ensure that the applications of psychology to motor performance and skill acquisition are presented in the new Kinesiology 367-3 while the more abstract models of information processing are reserved for the new Kinesiology 467-3. The old Kinesiology 366-3 and 466-3 will be dropped.

CONCLUSION

This sequence of courses is the result of discussion with Dr. Kirchner and an attempt to answer the question: "Given that the Kinesiology Major cannot be substantially changed at this time, what can the department do to best prepare students for secondary school physical education in PDP?" This sequence is an honest attempt to answer the question. Obviously the proposal has been prepared in the light of the current era of fiscal restraint.

FINANCIAL IMPLICATIONS OF THE PROPOSED SEQUENCE

Lecture	Kinesiology 370-3; 375-3
Lecture/Lab	Kinesiology 343-3
Lab	Kinesiology 470-2; 471-2 (two instructors are required to handle 40 students)

Assuming that a faculty work load is four courses per year, these courses would require 1.75 faculty years. The Faculty of Education will require some additional support for their Secondary School P.E. Program and it is hoped that either Professor Kirchner or a new appointee will teach KIN. 320. Thus we realistically estimate the new faculty needs as:

One position in Kinesiology	\$20,000
One position jointly in Education and Kinesiology	\$20,000
Four sessional lecturer appointments/year	<u>\$10,000</u>
<u>Salary Total:</u>	<u>\$50,000</u>

Equipment (for Motor Activities Labs) , \$10,000

In addition the labs would require use of the gymnasium and related facilities.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Calendar Information

Department: KINESIOLOGY

Abbreviation Code: KIN. Course Number: 343 Credit Hours: 3 Vector: 2-0-4

Title of Course: FITNESS APPRAISAL AND GUIDANCE.

Calendar Description of Course: This course is an extension of 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.

Nature of Course

Prerequisites (or special instructions):

KIN. 100, 142, 143, 375 (or consent of department).

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? Once per year, possible 2 times if offered on a continuing education basis.

Semester in which the course will first be offered? Spring, 1978

Which of your present faculty would be available to make the proposed offering possible? Ross, Clement, Banister

Objectives of the Course

Integrate previous learnings and develop competence as an exercise professional capable of planning, supervising, conducting and evaluating programs of exercise management

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty Present faculty and T.A. adequate.

Staff Honorarium for off-campus supervisors 4 @ \$50.00 = \$200.00

Library \$50 for update of collection of pertinent papers from ongoing computer search systems each offering.

Audio Visual Nil

Space Small classroom once per week, 2 hours in the evening.

Equipment ECG paper, medical and data forms, program materials \$80.00 each offering.

5. Approval

Date: _____

14 June 77

14 June 77

J. W. Bolert

J. W. Bolert

G. B. Bink

Department Chairman

Dean

Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 343-3: Fitness Appraisal and Guidance.

Vector: 2-0-4

This course is an extension of Kinesiology 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.

Pre-Requisite: Kinesiology 100, 142, 143, 375

The course consists of a weekly seminar and four hours of guided learning as junior leaders in the following:

1. KIN. 143 Exercise Management (day)
2. KIN. 143 Exercise Management (evening)
3. Faculty Fitness
4. YMCA/YWCA
5. Kinestherapy programs in cooperating schools.
6. Kinestherapy or remedial physical education class offered as an extension course.

Content:

1. Medical screening, counter indications, relative counter indications, role of physician in fitness programs, initial exercise screening, signs of duress, field tests for referral.
2. Safety in exercise. Clothing, footgear, facilities, traffic, disease and illness effects, progression, injury inducing and prophylatic exercise.
3. Faulty body mechanics and techniques to correct and ameleorate condition e.g. medical referral, choice of shoe, connective exercise. Special attention to low back pain.

4. Pulmonary precautions. Tests for pulmonary sufficiency. Breathing techniques. Asthma and allergies.
5. The cardiac prone individual. Risks factors and precautions. Abnormal response to exercise. Emergency procedures. CPR techniques.
6. Nutritional aspects of exercise. Emergencies. Dietary guidance. Weight loss programs.
7. Exercise recruitment and retention. Screening procedures. Program Offerings. Services. Public relations.
8. Fitness assessment procedures for field situations. Practical structural and functional assessment techniques.
9. Strength training programs.
10. Cardiovascular training programs.
11. Recreational programs.
12. Individual differences. Growth and aging effects.
13. Fitness in the school programs. The Canadian standard school.

NOTE: On Courses 367 and 467.

These courses replace current offerings 366 and 466 with the addition of a laboratory. The content of 366 and 466 has been reorganized so that applied topics relevant to physical education will be covered in 367 which forms part of the proposed new sequence. The more theoretical aspects will be covered in 467 which is not specifically designed for the sequence, but is presented here since it represents a new course.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Calendar Information

Department: KINESIOLOGY

Abbreviation Code: KIN. Course Number: 367 Credit Hours: 3 Vector: 2-1-1

Title of Course: PSYCHOLOGY OF MOTOR PERFORMANCE AND SKILL ACQUISITION.

Calendar Description of Course: An examination of phases of skill acquisition, transfer of training, training principles, retention of motor skills, and the influence of motivation, personality and social factors on the acquisition of skill.

Nature of Course 2 lectures - 1 tutorial - 1 hour lab per week.

Prerequisites (or special instructions): At least 30 hours undergraduate course credit.

What course (courses), if any, is being dropped from the calendar if this course is approved: KIN. 366-3

2. Scheduling

How frequently will the course be offered? 1/annum

Semester in which the course will first be offered? 78-1

Which of your present faculty would be available to make the proposed offering possible? J. Dickinson

Objectives of the Course The course will present an overview of factors related to the acquisition of skills relevant to a physical education program.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty

Staff

Library

Audio Visual

Space - Development of laboratory in trailer B3.

Equipment - \$4000 for laboratory equipment to initiate course. Maintenance subsequently from departmental budget. (For this + KIN. 467)

5. Approval

Date: _____

14 June 77

J. W. Bolwert
Department Chairman

J. W. Bolwert
Dean

[Signature]
Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 367-3: Psychology of Motor Performance and Skill Acquisition.

Vector: 2-1-1

This course is intended for students with an interest in the field of motor learning and will emphasize factors influential in skill acquisition. The course content may be subdivided into three sections:

1. The acquisition process:
 - (a) Learning curves, plateaus and measurement.
 - (b) Cognitive, associative and autonomous phases of acquisition.
 - (c) Mechanisms of control and level of skill.
 - (d) Transfer of training.
 - (e) Short and long-term retention of skill.
2. Factors under experimenter/instructor control:
 - (a) Schedule of practice, part-whole learning.
 - (b) Knowledge of results and guidance.
3. Factors varying with the learner:
 - (a) Personality and skill.
 - (b) Motivation in acquisition and performance.
 - (c) Ability and skill.
 - (d) Maturation, aging and skill.

THERE WILL BE A WEEKLY LAB.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Department: KINESIOLOGY

Calendar Information
Abbreviation Code: KIN. Course Number: 467 Credit Hours: 3 Vector: 2-1-1

Title of Course: THE COMPONENTS OF SKILLED PERFORMANCE.

Calendar Description of Course: An analysis of models of performance. The approach will rely heavily on an information processing analysis of performance. Course content will include: perceptual mechanisms in skill, attention and performance, signal detection theory, anticipation and timing, decision mechanisms and reaction time, control processes for movement, theories of learning and performance.

Nature of Course 2 lectures - 1 lab - 1 tutorial

Prerequisites (or special instructions): At least 45 hours undergraduate course credit.

What course (courses), if any, is being dropped from the calendar if this course is approved: KIN. 466

2. Scheduling

How frequently will the course be offered? 1 annum

Semester in which the course will first be offered? 78-1

Which of your present faculty would be available to make the proposed offering possible? J. Dickinson

Objectives of the Course This course is designed for Kinesiology Majors with a science background and is not specifically designed for those who wish to teach Physical Education. This course replaces Kinesiology 366 as the primary theoretical course in this area.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

- Faculty)
- Staff) Replaces existing course. No new commitment.
- Library)
- Audio Visual)

Space - Development of laboratory in trailer B3.

Equipment - \$4000 for laboratory equipment to initiate the course. (For this + KIN. 367).

5. Approval

Date: _____

14 June 77

14 June 77

J. W. Bolwert
Department Chairman

J. W. Bolwert
Dean

Dr. Birch
Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 467-3: The Components of Skilled Performance.

The approach in this course will rely heavily on an information processing analysis of performance. The course is intended for those with an interest in models of human performance with special reference to skill.

Course Content:

1. Introduction to concepts of information processing.
2. The sensory systems
 - (a) psychophysical measurement.
 - (b) signal detection theory.
3. Perceptual mechanisms in skill.
 - (a) perceptual changes with skill.
 - (b) selective attention.
 - (c) anticipation and timing.
 - (d) short-term retention.
4. Decision mechanism
 - (a) simple and choice reaction times.
 - (b) compatibility and practice effects.
 - (c) refractory periods.
 - (d) speed and accuracy.
5. Effector systems
 - (a) attention demands of movement control.
 - (b) hierarchical control systems.

THERE WILL BE A WEEKLY LAB.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Department: KINESIOLOGY

Calendar Information

Abbreviation Code: KIN. Course Number: 370 Credit Hours: 3 Vector: 2-1-0

Title of Course: BIOMECHANICS IN MOTOR LEARNING.

Calendar Description of Course: To provide knowledge of a Biomechanical nature which has direct application to (a) the teaching and learning of physical skills and (b) the suitability of different types of activity to which children of different ages are exposed.

Nature of Course Two one-hour lectures - and one tutorial per student.

Prerequisites (or special instructions): This course is intended for students completing the course sequence in Physical Education - KIN. 100, 142, 143 are prerequisites.

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? One semester per year.

Semester in which the course will first be offered?

Which of your present faculty would be available to make the proposed offering possible? Chapman

3. Objectives of the Course To provide potential teachers of Physical Education with a background in Biomechanics which will allow them to (a) identify the important mechanical features of a skill, (b) formulate a protocol for teaching the skill, (c) identify and correct errors in skill performance, (d) identify skills which may be injurious to children of different ages and (e) plan a programme of varied skills which are mechanically appropriate to different age-groups.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty New faculty - see attached memo.

Staff None

Library Duplication of approximately 5 texts which are presently held.

Audio Visual None

Space Classroom space for three hours per week.

Equipment None

5. Approval

Date: _____

14 June 77

14 June 77

J. W. Bolert
Department Chairman

J. W. Bolert
Dean

V. K. Birch
Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

NEW COURSES

KINESIOLOGY 370-3: Biomechanics in Motor Learning.

Vector: 2-1-0

Possible Teacher: Chapman

Major Emphasis: To provide knowledge of a biomechanical nature which has direct application to (a) the teaching and learning of physical skill and (b) the suitability of different types of exercises to which children of different ages are exposed.

Nature of the Course: The basic mechanical principles which govern the following:

1. Propulsion of the body linearly.
2. Propulsion of the body rotationally.
3. Motion of body parts in free fall.
4. Generation of motion in implements.
 - (a) throwing
 - (b) hitting and striking
5. Absorption of external forces.
6. Control of swinging movements.
7. Mechanical properties of body tissues.

Pre-Requisites: Kinesiology 100, 142, 143

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Department: KINESIOLOGY

Calendar Information

Abbreviation Code: KIN. Course Number: 375 Credit Hours: 3 Vector: 2-1-0

Title of Course: PHYSIOLOGICAL AND DEVELOPMENTAL BASIS OF MOTOR PERFORMANCE.

Calendar Description of Course: This is a course aimed at studying the fundamentals of physiologic growth and development so that the student may bring some insight, on the nature of the developing child, to the design of appropriate activity programs throughout the range from kindergarten to grade 12.

Nature of Course

Prerequisites (or special instructions): Course is for students studying in the course sequence in Physical Education. KIN. 100, 142, 143

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? One semester per year

Semester in which the course will first be offered? Not known yet

Which of your present faculty would be available to make the proposed offering possible? Banister, Ross, Savage

Objectives of the Course The objectives of the course are to teach students the fundamentals of growth and development of children, especially physiologic mechanisms. This would be related to developing appropriate programs of activity for school children over the whole range of ages from infant to adolescent. The material taught would also facilitate the students' ability to teach in those programs, already developing in schools, which seek to teach children a similar body of knowledge through which the child's perception of the need for vigorous activity in his life is enhanced.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty New faculty - attached memo covering whole scheme.

Staff None

Library Probably some additional texts. These need not be excessive in number however.

Audio Visual Projectors, overhead

Space Classroom, - 3 hours per week

Equipment None

5. Approval

Date: _____

J. W. Bolner
Department Chairman

14 June 77
J. W. Bolner
Dean

16 June 77
R. Birch
Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 375-3: Physiological Developmental Basis for Motor Performance.

TOPICS TO BE COVERED:

1. Review of simple physiological systems relevant to growth and performance.
2. Heredity and environmental factors governing development.
3. Normal physical and physiological development.
4. Energy metabolism at rest and during exercise.
5. Temperature regulation.
6. Nutrition
7. Review of expected performance capacity from K -- 12.
8. Programs of physical activity necessary for optimal physical growth.
9. New approaches to physical education/active health programs.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Calendar Information

Department: KINESIOLOGY

Abbreviation Code: KIN. Course Number: 470 Credit Hours: 2 Vector: 0-0-4

Title of Course: MOTOR ACTIVITIES LABORATORY I

Calendar Description of Course: Application of principles of Motor Learning, Biomechanics and Physiology to the learning of physical skills inherent in some individual sporting and recreational activities.

Nature of Course 2 hours practical session on each of two activities.

Prerequisites (or special instructions): This course is intended for students completing the course sequence in Physical Education. Pre-requisites KIN.367, 370 and 375.

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? One semester per year.

Semester in which the course will first be offered?

Which of your present faculty would be available to make the proposed offering possible? Chapman, Banister, Dickinson, Hendy (Dept. of Rec.), Sessional Lecturer.

Objectives of the Course To integrate knowledge in the areas of Motor Learning, Biomechanics and Physiology within the context of the variety of skills required to participate in some individual sporting and recreational activities. Emphasis will be placed on how physiology illustrates the relative muscular and cardio-respiratory requirements; how Biomechanics illustrates the sequence and magnitudes of the segmental actions; and how Motor Learning illustrates the direction of attention of the individual and the spacing of practice activities in the process of skill-learning.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty New faculty - see attached memo.

Staff None

Library Addition of approximately 8 texts.

Audio Visual None

Space Gym, field or court-space for 8 hours per week.

Equipment All is available from either Recreation, Education or Athletics.

5. Approval

Date: _____

14 June 77

21 June 77

J. W. Balser
Department Chairman

J. W. Balser
Dean

W. K. Birch
Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 470-2: Motor Activities Laboratory I (Individual Sports and Recreational Activities).

Vector: 0-0-4

Possible Teachers: Chapman, Baniser, Hendy,
Dickinson, Sessionals

The aim of the course is to teach students the principles involved in individual physical, sporting and recreational activities. During this course students will be expected to make every effort to improve their own performance in these activities. This requirement is based upon the principle that visual demonstration by a teacher of physical education is a valuable means of instruction. However, it should be noted that the major emphasis will be placed upon the development of an understanding of how the concepts and principles of motor learning, biomechanics and physiology apply to a wide range of individual activities.

Students will select two activities from a choice of four. The four available may vary from semester to semester but will always include Gymnastics and Track and Field. The activities offered will from time to time also include Tennis, Squash, Badminton, Swimming, Canoeing, Mountaineering, etc.

The course will accommodate 40 students and will be taught by two instructors.

Pre-Requisite: Kinesiology 367-3; 370-3; 375-3. Evaluation: Students will be graded on the basis of laboratory reports and on a final oral and written examination.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: KINESIOLOGY

Abbreviation Code: KIN. Course Number: 471 Credit Hours: 2 Vector: 0-0-4

Title of Course: MOTOR ACTIVITIES LABORATORY II

Calendar Description of Course: Application of principles of Motor Learning, Biomechanics and Physiology to the learning of physical skills inherent in some team sports.

Nature of Course Two hours practical session on each of two activities.

Prerequisites (or special instructions): This course is intended for students completing the course sequence in Physical Education. Pre-requisites KIN. 367, 370 and 375.

What course (courses), if any, is being dropped from the calendar if this course is approved: None

2. Scheduling

How frequently will the course be offered? One semester per year

Semester in which the course will first be offered?

Which of your present faculty would be available to make the proposed offering possible? Chapman, Banister, Hendy (Dept. of Rec.), Sessional Lecturer.

3. Objectives of the Course

See section 3 on proposal form for KIN. 470. This one (KIN. 471) is with reference to team sports.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty New faculty as per attached memo.

Staff None

Library Addition of approximately 8 texts.

Audio Visual None

Space Gym or field space for 8 hours per week.

Equipment Available from either Recreation, Education or Athletics.

5. Approval

Date: _____

14 June 77

14 June 77

J. W. Bolwert

Department Chairman

J. W. Bolwert

Dean

W. B. Wick

Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

KINESIOLOGY 471-2: Motor Activities Laboratory II (Team Sports).

Vector: 0-0-4

Possible Teachers: Chapman, Hendy,
Banister, Sessionals

This will be handled in the same way as Kinesiology 470-2.

Pre-Requisites: Kinesiology 367-3; 370-3; 375-3.

Evaluation: Students will be graded on the basis of laboratory reports and on a final oral and written examination.

Students will select two team activities from a choice of four. The four available will vary from semester to semester. From time to time the activities offered will include, soccer, basket ball, volley ball, football, etc.

STON FRASER UNIVERSITY

MEMORANDUM

Not distributed
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 MAY 9 1977
late

J. Blanchet, Secretary
 FIDS
 Undergraduate Curric. Comm.
 Subject: SPECIAL MINOR IN KINESIOLOGY

From: L. E. Thomas
 Collections Librarian
 Date: 4th May 1977

Our Biological Sciences Librarian, Maurice Deutsch, has provided the following statement in regards to library resources:

With regard to the programme for the new Special Minor in Kinesiology only six new courses are proposed, two of which are laboratory courses. The other four courses are:

1. Fitness Appraisal & Guidance (Kin. 343)
2. Psychology of Motor Performance & Skill Acquisition (Kin. 367)
3. Biomechanics in Motor Performance (Kin. 370)
4. Physiological & Developmental Basis of Motor Performance (Kin. 375)

These courses do not deal with new areas of teaching or research in the Kinesiology Department, at least as far as Library support is concerned. The Library can fully support these courses and this programme with its current monograph and journal collection.

Larry Thomas

LET : dcr