## SIMON FRASER UNIVERSITY

S.78.138

## MEMORANDUM

ToSenate	From N. R Reilly, Chairman
	Senate Committee on Undergraduate.Studies
Changes in the Psychology Subject Program.	Date15. No.vember197.8

Action taken by the Senate Committee on Undergraduate Studies at its meetingson November 7 and 14, 1978 gives rise to the following motion:

## MOTION

That Senate approve and recommend approval to the Board of Governors the following changes in the Psychology Program as detailed in S78-138 :

- Change in requirements for honors (a)
- New course PSYC 280-3, Biological Bases of Behaviour **(b)**
- New course PSYC 300-3, Laboratory in Psychophysiology (C)
- Title change, description change, prerequisite change (d) PSYC 335-3, Sensation I
- New course PSYC 336-3, Sensation II (e)
- Deletion of PSYC 347-3, Motivation and Work (f)
- New course PSYC 356-3, Developmental Disorders (q)
- Deletion of PSYC 380-3, Physiological Psychology (h)
- New course PSYC 381-3, Introduction to Physiological (i) Psychology
- New course PSYC 382-3, Physiology and Complex (j) Behaviour
- Deletion of PSYC 415-5, Measurement (k)

The new course PSYC 356-3, Developmental Disorders, was the focus of particular attention on SCUS both with regard to prerequisites and resources. After discussions with the Department of Biosciences, BISC 202 was included as a recommended prerequisite. The library reported that it did not carry all the resources listed for the course but on further investigation the department indicated that it was satisfied with the current resources and was prepared to give the missing materials high priority from the Department's library allocation in future years.

N.R. Reilly

/kb

Scus 78-66

## SIMON FRASER UNIVERSITY

# MEMORANDUM

Mr. H.M. Evans, Secretary	From Sheila Roberts, Secretary
S.C.U.S.	Faculty of Arts Curriculum Committee
Subject CURRICULUM CHANGES-PSYCHOLOGY	Date October 31, 1978

The Faculty of Arts Curriculum Committee at its meeting of October 19, 1978 approved the attached changes and new course proposals for the Department of Psychology. The new course proposals were distributed to other Faculties prior to the meeting, with the understanding that other Faculty Committees would have two weeks - until November 2, 1978, to respond to the question of overlap with courses in their respective faculties.

Please place these items on the agenda of the next SCUS meeting.

Thank you.

Sheila Robert

S. Roberts

Attachments:

## Department of Psychology

#### - RECAPITULATION

## p. 206 Requirements for Honors in Psychology

## CHANGE OF REQUIREMENTS:

#### DELETE

2. Present to the departmental Undergraduate Studies Committee a coordinated program of approximately 45 credits suited to a chosen direction within psychology. Normally the program will be designed in consultation with the faculty adviser, and must be presented before 80 credits have been accumulated. Approval of the program will be based on its quality and coherence.

#### RENUMBER as shown

- S Have a 3.0 or higher grade point average for all courses taken in each semester.
- Have a 3.0 or higher grade point average for all psychology courses taken each semester.

RATIONALE:

The requirement that Honors students must present a program of 45 credits of study for advance approval by the departmental Undergraduate Studies Committee is to be dropped. This requirement has proved to be unworkable, inasmuch as many students enter the Honors program when they have less than 45 credits remaining, and in any case, the planned program is often impossible to follow because of the infrequent offering of certain advanced courses.

P. 209 NEW COURSE PROPOSAL

PSYC 280-3

SEE APPENDIX A.

#### **RATIONALE:**

A reorganization of courses in physiological psychology is proposed. This involves a splitting of the present Psyc 380 (Physiological psychology) into two courses, Psyc 381 (Introduction to physiological psychology) and Psyc 382 (Physiology of complex behavior). In addition, a prerequisite course, Psyc 280 (Biological bases of behavior) is being introduced, and a laboratory course, Psyc 300 (Laboratory in psychophysiology), which may be taken by students in any of the other courses, is being added. The attached material provides details about the new courses. 209 NEW COURSE PROPOSAL PSYC 300-3.

SEE APPENDIX B

RATIONALE: see rationale under PSYC 280-3

p. 210 PSYC 335-3

#### CHANGE OF TITLE

SEE APPENDIX C

FROM: Sensation

TO: Sensation 1

#### CHANGE OF DESCRIPTION

FROM:

Considers the capabilities of the sensory system, and the sensory bases of experience with reference to the characteristics of stimuli, the receptor mechanisms, the processes of transmission, and the concomitant neurophysiological processes. Consideration is also given to the problems of response indicators and the measurement of sensory magnitudes.

TO: Considers the capabilities of the visual and auditory sensory systems, and the sensory bases of experience with reference to the characteristics of stimuli, the receptor mechanisms, the processes of transmission, and the concomitant neurophysiological processes. Consideration is also given to the problems of response indicators and the measurement of sensory magnitudes.

#### CHANGE OF PREREQUISITES

FROM:

PSYC 101-3

TO:

PSYC 101-3 Recommended: PSYC 201-3, PSYC 280-3, and PSYC 300-3

RATIONALE: SEE UNDER NEW COURSE PROPOSAL PSYC 336-3

NEW COURSE PROPOSAL PSYC 336-3

SEE APPENDIX D

## **RATIONALE:**

A new course, Psyc 336 (Sensation II), is to be added as an expansion of the subject matter now being taught. Although our present Psyc 335 is titled "Sensation", it has never proved possible in one semester to cover more than vision and audition, with perhaps one or two lectures acknowledging that there are other senses. It is proposed that the title of Psyc 335 be changed to "Sensation I", that its course description be changed slightly to indicate that the course content is confined to the visual and auditory senses, and that Psyc 336 (Sensation II) be added to cover the senses of taste, smell, touch, pressure, temperature, orientation, balance, muscle reception and pain. The new course is described in the attached material.



p. 210 PSYC 347-3 Motivation	and Work DE	LETE
RATIONALE:		
Psyc 347-3 and 415-5 are to student and faculty interest	be dropped from the	calendar because of insufficient
211 NEW COURSE PROPOSAL PS	(C 356-3	SEE APPENDIX E
PSYC 380-3 Physiological	Psychology	DELETE
211 NEW COURSE PROPOSAL PSYC	2 381-3	SEE APPEN <b>BIX</b> F
	382-3	SEE APPENDIX G
RATIONALE See under New	Course Proposal	PSYC 280-3
213 PSYC 415-5 Measurement		DELETE
RATIONALE: see under	PSYC 347-3	
214 PSYC 493-3, 494-3, and 495-3	B Change of Des	cription
~	selected in co instructor.	3-3 Directed Studies ading or research in topics nsultation with the supervis : PSYC 201-3 and permission tor."
	instructor.	ading or research in topics insultation with the supervis
	instructor.	ading or research in topics isultation with the supervis: PSYC 201-3 and particle
	Independent rea selected in con instructor. Students should time a 3-credit and for 494-3 au	494-3, and 495-3 Directed ding or research in topics sultation with the supervisi register for 493-3 the irs Directed Studies is taken, and 495-3 if further 3-credit s on separate topics are

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PSYC 496-5, 497-5, 498-5

Pre-requisties: PSYC 201-3 and permission of the instructor.

From: "PSYC 496-5 Directed Studies Independent reading or research in topics selected in consultation with the supervis instructor. Pre-requisites: PSYC 201-3 and permission

of the instructor.

## PSYC 497-5 Directed Studies

Independent reading or research in topics selected in consultation with the supervis instructor. Pre-requisites: PSYC 201-3 and permission of the instructor.

## PSYC 498-5 Directed Studies

Independent reading or research in topics selected in consultation with the suprevis instructor. Pre-requisites: PSYC 201-3 and permission

of the instructor."

To:"PSYC 496-5, 497-5, 498-5 Directed Stud Independent reading or research in topics selected in consultation with the supervis instructor.

Students should register for 496-5 the first time a 5-credit Directed Studies is taken, and for 497-5 and 498-5 if further 5-credit Directed Studies on separate topic are taken.

Pre-requisites: PSYC 201-3 and permission ( the instructor."

## RATIONALE:

The description of Directed Studies courses has been rewritten in an attempt t ensure that students will remember to register with a different course number each time a Directed Studies course is taken.

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Psychology

APPENDIX

Abbreviation Code: Psych Course Number: 280 Credit Hours: 3 Vector: 2-0-2

litle of Course: Biological Bases of Behaviour.

Calendar Description of Course: Surveys a variety of biological approaches to understanding behaviour, including research from allied disciplines relevant to the biopsychological analysis of behaviour. Includes: genetic basis of normal and abnormal behaviour, psychobiology of development, intelligence, aggression, biological approaches to mental illness, learning disabilities, and the behavioural effects of drugs, bormones, biorhythms, brain damage, and environmental enrichment. Nature of Course Two 1 hour lectures and one 2 hr. lab

Prerequisites (or special instructions):

Psyc 101

Recommended: Bisc 101 or 102 or 105

What course (courses), if any, is being dropped from the calendar if this course is approved: None. PSYE 180 (Brain and Behavior) and PSYC 480 (Seminar in Physiological Psychology) will be offered less frequently.

2. Scheduling

Now frequently will the course be offered? Once per year.

Semester in which the course will first be offered? 1979-3

Which of your present faculty would be available to make the proposed offering possible? Drs. Beyerstein, Davis, Meinherg

Objectives of the Course To provide an introductory background to 300-level courses

in physiological and biological psychology.

4. Budgetary and Space Requirements (for information only)

## What additional resources will be required in the following areas:

Faculty None; PSYC 180 and 480 will be offered less frequently
Staff Current staff and faculty sufficient to handle new course, due to reduced
frequency of offering current courses.
Library None

Audio Visual None

Space None

Equipment None

Date: bOct 78	197 <b>8</b>	15 Mar 78
(G/Bowman	Ripsun	Jon R. Reelly
Department Chairman	Dean	Chairman, SCUS

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

Jct. 173

## SIMON FRASER UNIVERSITY

## MEMORANDUM

Dr.	Hal	Weinl	berg	
····Psvo	-holr		martme	nt

Lin Kemp From ... Chairman; DUCC Biological Sciences

Psychology course revisions Subject 26 Sept/78

I've looked over your revisions and proposed new course PSYCH 280, and have discussed them with several members of the Biology Department. We see no substantive overlap but would offer the following suggestions:

It would be useful for students planning to take PSYCH 280, or any further Physiological Psychology courses to have at least an introductory grounding in Physiology and Genetics. While it would be ideal if they took BISC 305-3, Animal Physiology, this may be too much, considering the Chemistry prerequisites. So my suggestion would be that they be required to take BISC 101 (a form and functions course) and BISC 202 (Genetics). Because of the usual prerequisites for BISC 202 you may wish to only recommend Genetics.

The Biological Bases of Behaviour

1. Introduction 2. Behaviour Genetics - basic concepts 3. - inheritance of behavioural traits 4. - the genetics of intelligence controversy 5. - nature-nurture and aggression Animal behaviour in the field and laboratory - Comparative Psychology and 6. Ethological analysis of behaviour. Biorhythms - introduction - perodicities in animal and human behaviour 7. - circadian rhythms, sleep cycles 8. 9. - annual rhythms: fertility, migration, hibernation, etc. 10. Hormones and behaviour - basic data - sexual dimorphism, a comparative analysis 11. 12. - hormones & non-reproductive behaviours 13. Biopsychology development - maturation of the nervous system in relation to the development 14. of behaviour - adult effects of enriched and impoverished environments during 15. development Biopsychology of abnormal behaviour - effects of brain damage 16. - behavioural and conscious effects of 17. nervous diseases; malnutrition and the brain - biological approaches to mental illness 18. 19. - hyperkinesis and learning disabilities Drugs and Behaviour - chemical effects on the nervous system 20. - drugs for the treatment of behavioural problems 21. 22. - popular social drugs - possible hazards of social drug use 23. 24. The Human Nature of Human Nature - biopsychological perspectives

## Reading List for Psychology 280-3

Cartwright, R.D. <u>A Primer on Sleep and Dreaming</u>. Addison-Wesley (1978)
Hinde, R. <u>Biological Easis of Human Social Behaviour</u>. McGraw-Hill (1974)
Julian, R.M. <u>A Primer of Drug Action</u>. Freeman (1978)
Lerner, I.M. <u>Heredity, Evolution and Society</u>. Freeman (1968)
Montague, M.F.A. <u>Man and Acgression</u>. Oxford University Press (1973)
Snyder, S. <u>Madness and the Brain</u>. McGraw-Hill (1974)

NEW COURSE PROPOSAL FORM

APPENDIX B

1. Calendar Information

Department: Psychology

Abbreviation Code: Psych Course Number: 300 Credit Hours: 3 Vector: 1-0-4

Fitle of Course: Laboratory in Psychophysiology

**Colondar Description of Course:** The techniques of electrophysiological recording currently used in psychophysiology and sensory psychology are demonstrated and learned. These will include electroencephalography, electromyography, electrocardiography, electrodermography and other techniques for the measurement of physiological changes which are related to behaviour. The recorded information is related to the behavioural and physiological conditions which influence their occurance and form. Nature of **Course** 

1-hr. lecture & 4-hr. laboratory Prerequisites (or special instructions):

Previous or concurrent enrolment in Psyc 280

What course (courses), if any, is being dropped from the calendar if this course is approved: None. PSYC 180 (Brain and Behavior) and PSYC 480 (Seminar in Physiological Psychology) will be offered less frequently.

2. Scheduling

How frequently will the course be offered? Once each calendar year

Semester in which the course will first be offered? 1979-3

Which of your present faculty would be available to make the proposed offering possible? Drs. Reverstein, Davis, Diamond, Weinberg.

Objectives of the Course To provide first-hand exposure to psychophysiological record methods as they are currently practiced in research and clinical settings. This will have to an appreciation of the possibilities and limitations of psychophysiological techniques in the study of behaviour and in the treatment of behavioural disorders.

4. Budgetary and Space Requirements (for information only)

#### What additional resources will be required in the following areas:

Faculty NONE See above.

Staff The current support staff (technicians and demonstrator) will suffice Library None

Audio Visual None

Space None

Equipment \$5000/yr. for 3 yrs. to update existing equipment and purchase new equipment.

5. <u>Approval</u> Date: 6 Oct 79	OCT 3 + 1978	15 Nov 7.8
KhBewan	RCBurn	norman R. Reelly
Department Chairman	Dean	Chairman, SCUS

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

	SENATE CO	DMMITTEE ON UNDERGRADUATE	APPENDIX C STUDIES	CHANGE OF TITLE DESCRIPTION PREREQ
	E OF TITLE, DESCRIPTION	NEW COURSE PROPOSAL FORM		•
	RE-REQUISITES ONLY Calendar Information		Department <u>PSYCHO</u>	
-		Tourse Numbers 225	Credit Hours: 3	
	Abbreviation Code: <u>PSYC</u> ( Fitle of Course: Sensation ]	Course Number: <u>335</u>	creatt nours. 3	
-				<b>1 1</b>
s s I z	Calendar Description of Courses systems, and the sensory bases stimuli, the receptor mechani- neurophysiological processes. indicators and the measuremer Nature of Course Lecture/La	es of experience with refe sms, the processes of tra- Consideration is also g at of sensory magnitudes.	erence to the chara ansmission, and the	cteristics of concomitant
F	Prerequisites (or special ins	structions):		
]	PSYC 101-3. Recommended: PSY	C 201-3, PSYC 280-3, and	PSYC 300-3.	
	What course (courses), if any approved: None	, is being dropped from	the calendar if th	is course is
2. <u>s</u>	Scheduling			
F	How frequently will the cours	se be offered?		
5	Semester in which the course	will first be offered?		
	Which of your present faculty possible?	v would be available to m	ake the proposed o	ffering
	Dbjectives of the Course			
4. <u>e</u>	Budgetary and Space Requireme	ents (for information only	y)	
ĥ	Nhat additional resources will	l be required in the fol	lowing areas:	
F	Faculty			
S	Staff			
I	Library	Ċ3		
	Audio Visual			
	Space			
	Equipment			
	Approval			•
	Date: 31 Oct 7 D	<u> </u>		Nav 78
	/Bowna	2013	317 Las hom	ner L heilly irman, SCUS
	<sup>C</sup> Department Chairman	Dean /	Cha	irman, SCUS 🅖

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5 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73 Attach course outline).

Arts 78-3

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HPPENDIX

NEW COURSE PROPOSAL FORM PSYCHOLOGY 1. Calendar Information Department: PSYC Course Number: Abbreviation Code: 336 Vector: 2-0-2 Credit Hours: 3 litle of Course: Sensation II Calendar Description of Course: The senses other than vision and hearing. A consideration, similar to that in Sensation I, of taste, smell, touch, pressure, temperature, orientation, balance, muscle reception and pain. Nature of Course : Companion to 335, Sensation I. Lectures and laboratory. Prerequisites (or special instructions): PSYC 101-3 PSYC 201-3, 280-3, 300-3 recommended What course (courses), if any, is being dropped from the calendar if this course is approved: None. PSYC 335 (Sensation I) will be offered less often. 2. Scheduling How frequently will the course be offered? Once per year Semester in which the course will first be offered? 1979-3 Which of your present faculty would be available to make the proposed offering possible? Drs. Beyerstein, Davis, Diamond, Weinberg. 3. Objectives of the Course Cover material not now being adequately presented 4. Budgetary and Space Requirements (for information only) What additional resources will be required in the following areas: Faculty NONE Psyc 335 will be offered less often.

Staff None Library None Audio Visual None Space None

Equipment Eventual build-up of additional equipment for senses other than vision and audition.

Date: 6 Oct 78	007 3 1 1975	15 Mar 78
1/2 Bouman	RC Brin	reman & heily,
Department Chairman	Dean	Chairman, SCUS

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

Jct. 173

## PSYCHOLOCY 336

## SENSATION II

## TEXT: Geldard, F.A. The Human Senses, John Wiley, Toronto, 2nd Edition, 1973.

WEEK	TOPIC	ASSI	GNMENT S
1	Introduction	(Chapter)	1
2	The Skin and its Stimuli		9
3	Pressure Sensitivity		10
. 4	Pain		11
5	Pain		11
6	Temperature		12
	MID TERM		
7	Kinesthesis		13
8	Kinesthesis		13
9	Vestibular Sensitivity		14
10	Vestibular Sensitivity		14
11	Olfaction		15
12	Taste		16
13	Somesthesis		13

#### **READING LIST FOR PSYCHOLOGY 336**

The Human Senses. F. Geldard Proprioceptive Control of Human Movement. Dickinson Receptors and Sensory Perception. R. Granit Sensory Processes. Alpern, Lawrence & Wolsk Efferent Organization and the Integration of Behavior. J. Maser Movement Produced Stimulation in the Development of Visually Guided Behavior. R. Held & A. Hein The Senses Considered as Perceptual Systems. J.J. Gibson Touch and Kinesthesis. Rose & Mountcastle The Activity of the Mammalian Olfactory Apparatus. E.D. Adrian Somesthesia and the Chemical Sense. F. Geldard Special Senses: Thermal Receptors. Y. Zotterman Studies in Space Orientation. III. Perception of the upright in the absence of a visual field. H.A. Witkin & S.E. Asch. The Nature and Importance of Individual Differences in Perception. H.A. Witkin.

Sensation and Perception II. The minor Senses. J. Cohen

NEW COURSE PROPOSAL FORM

FPPENDIX

PSYCHOLOGY

Culendar Information Department: Abbreviation Code: PSYC Course Number: 356 Credit Hours: 3 Vector: 2-0.2 litle of Course: DEVELOPMENTAL DISORDERS

Calendar Description of Course: Examines theoretical approaches, research findings, and treatment outlooks concerning problems and disorders in childhood development.

Nature of Course: Two one-hour lectures and one two-hour laboratory.

Prerequisites (or special instructions):

PSYC 351 and PSYC 340, or permission of the Department. BISC 2.02 highly recommended.

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

Semester in which the course will first be offered? 1980-1

Which of your present faculty would be available to make the proposed offering possible? Janet Strayer, Elinor Ames, James Marcia, Philip Wright

Objectives of the Course to inform and educate by means of a critical examination of theories, issues and research findings concerned with the possible causes and treatment of problems in a number of content areas in development. Students should gain an understanding of the process of normal development as a context for examining disorders. They should also acquire critical skills in the assessment and evaluation of theory and research in the areas considered.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas: NONE Other developmental courses will be offered less frequently. Faculty

Staff None Library None Audio Visual None None Space None Equipment

Date: 6 Oct 75	<u>0CT 2: 1 1978</u>	15 Nas 78
Bowman	RC Brown	Turnen Q. Keelly
Department Chairman	Dean	Chairman, SCUS

SCOS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline). Jet. 173

#### COURSE CONTENT:

The objectives of the course will be to survey and examine critically each of the following general problem areas:

Intellectual: intellectual development in normal and retarded individuals; learning disabilities; speech, hearing, and language disorders.

<u>Emotional</u>: psychotic and neurotic disorders of children.
<u>Behavioral and Sociogenenic</u>: hyperactivity; delinquency; aggression;
and problems of behavior control and management.

Each area will be considered according to the following framework:

- Theories and Models of Development and Developmental Disorders: Freudian and Ego-Psychoanalytic; S-R Learning; Social Learning; Cognitive-Developmental.
- 2) Related Treatment Approaches: Analytic and Psychodynamic; Behavioristic; Cognitive; Social and Observational Modelling; Cognitive-Behavior Modification; Adult vs. Peer treatment; Individual vs. Group treatment models.
- 3) Issues in the Treatment of Children: Historical perspectives on developmental disorders of children; Concepts of normal and "abnormal" development in childhood; Contrasts between biological (medical), behavioral, and educational intervention strategies.

4) Etiological Factors:

The influence of genetics, congenital and biological factors, social, and cognitive factors will be considered in relation to each problem area. The prevailing perspective overall will be to describe and attempt to explain the current state of knowledge in several areas of developmental deviation by setting these within the context of developmental psychology.

#### Psychology 356-3

#### DEVELOPMENTAL DISORDERS

#### Reference Materials

## Text: M.T. Erickson, <u>Child Psychopathology</u>, Toronto: Prentice-Hall of Canada, 1978.

In addition to the text, articles will be assigned from the following Developmental journals:

Child Care Quarterly; Child Development; Developmental Psychology; Human Development; J.of Experimental Child Psychology; J. of Genetic Psychology; J. of Personality and Social Psychology; J. of Youth and Adolescence; Merrill-Palmer Quarterly.

Journals dealing more specifically with select problem areas include: American J. of Mental Deficiency; American J. of Orthopsychiatry; Child's Brain; J. of Abnormal Child Psychology; J. of Abnormal and Social Psychology; J. of Applied Behavior Analysis; J. of Autism and Childhood Schizophrenia; J. of Child Psychology and Psychiatry; J. of Child Psychotherapy; J. of Clinical Psychology; J. of Learning Disabilities; J. of Speech and Hearing Disorders; Exceptional Children; Mental Retardation; Psychoanalytic Study of the Child. Psychology 356-3

Reference Books and Resource Materials:

Achenbach, T.M. Developmental Psychopathology (1974) Adams, P.L. Obsessive Children (1973) Allen, F.H. Psychotherapy with Children (1942) Anthony, E.J. & Koupernik, C. (Eds.). The Child in his Family, 3 volumes (1974) Axline, V.M. Play Therapy (1947) Bryan, T. & Bryan, J. Understanding Learning Disabilities (1975) Caplan, G. (Ed.) Emotional Problems of Early Childhood (1955) Clarizio, H.F., & McCoy, G.F. Behavior Disorders in School-Aged Children (1970) Clarke, A.M. & Clarke, A.D.B. (Eds.) Mental Deficiency: The Changing Outlook (1975) Davids, A. Children in Conflict: A Casebook (1974) Davids, A. (Ed.) Child Personality and Psychopathology (1974) Gibbons, D.C. Delinquent Behavior (1970) Goldfarb, W. Childhood Schizophrenia (1961) Hobbs, N. (Ed.) Issues in the Classification of Children (1975) McIntire, R.W. Child Psychology: A Behavioral Approach to Eventiay Problems (1975) Mischel, W. Personality and Assessment (1968) Mussen, P.H. (Ed.) Carmichael's Manual of Child Psychology, vol. II, part V; Psychopathology (1970) Reisman, J.M. Principles of Psychotherapy with Children (1973) Rexford, E.N., Sander, L.W., & Shapiro, T. (Eds.) Infant Psychiatry (1976) Rimland, B. Infantile Autism (1964) Robinson, W. & Robinson, H. The Mentally Retarded Child, 2nd ed. (1976) Ross, A.O. Psychological Disorders of Children: A Behavioral Approach (1974) Sattler, J.M. Accessment of Children's Intelligence (1974) Schopler, E. & Reichler, R.J. Psychopathology and Child Development (1973) Steinhauer, P.D. & Rae-Grant, Q. (Eds.) Psychological Problems of the Child and his Family (1977) Weiner, I.B. Psychological Disturbance in Adolescence (1970) Westman, J.C. Individual Differences in Children (1973)

Wolman, B.B., (Ed.) Manual of Child Psychopathology (1972)

#### NEW COURSE PROPOSAL FORM

P	P	Ρ	E	N	D	メ
			_			

1.	Galendar Information	Department:	Psychology
	Abbreviation Code: Psych Course Number: 35	Credit Hours:	3 Vector: 2-2-0
	Fitle of Course: Introduction to Physiologi	Ical Psychology	

Calendar Description of Course: A consideration of the physiological systems which control and regulate basic drives including hunger, sex, thirst, sleep, and arousal.

Nature of Course Lecture and Tutorials

Prerequisites (or special instructions): Psyc 280 -

Kin 100, Psyc 300 recommended

What course (courses), if any, is being dropped from the calendar if this course is approved: Psychology 380. Psych 380 is being split into Psych 381, offered once per year and 382, offered once per year.

2. Scheduling

How frequently will the course be offered? Once a year

Semester in which the course will first be offered? 1979-3

Which of your present faculty would be available to make the proposed offering possible? Drs. Weinberg, Davis, Ecycrostein

3. Objectives of the Course To consider in detail the physiology of basic drive systems, primarily at the human level.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty None See abeve Staff None Library None

Audio Visual None

Space None

Equipment None

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Date: 6 Oct 78	OCT = 1 1970	15 Nav 78
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Department Chairman	Dean	Charman R. Mailly Charman, SCUS

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

Course Outline for Psychology 381 Introduction to Physiological Psychology

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1 & 2 Research Methods: Electrolytic, thermal chemical, ablation and sectioning techniques. Recording techniques: single unit, Evoked Potentials, EEG and DC fields.

Stimulation Techniques: electrical and chemical etimulation.

- 3 6 4 Cells of Central Nervous System and peripheral nerous system: Development of membrane potentials, axonal membrane changes, ionic fluxes, propagation of axon potentials. Structure of synopses, mechanisms of synaptic transmission, postsynaptic potentials, inhibition at the synapse, temporal and spatial integration.
- 5 5 6 Glands, muscles and control of voluntary movements. Anatomy of skeletal muscles, neuromuscular functions, motor and plates and the physical basis of muscular contractions. Neurosynaptic and polysynaptic reflex pathways. The Gomma motor systems. Central control of motor function: pyramidal and extra-pyramidal systems, the basal ganglia systems, the cerebellium and disorders of movements resulting from brain lesions.
  - Basic Structure of Brain and Spinal Cord. Gross anatomy of Cortex, Thalamus, basal ganglic, hypothalamus, brainstem, cranial nerves and related nucleii and major cortico-spinal tracts. Lateralization of input and output with respect to brain.
  - 8 Physiological systems related to the development and control of sexual behaviour. Human control of sexual differentiation and motivation. Effects of prenatal sex hormones on the brain. Spinal mechanisms controlling sexual behaviour. The effects of brain lesions on sexual behaviour.
- 9 & 10 Regulation and control of hunger and food intake. The digestive process and controls of metabolism. Patterns of food intake. Glucostatic and other theories, specific hungers, brain

function and systems controlling hunger and thirst, lesion and electrical stimulation studies. Regulation of water and sodium balance. Neural control of drinking.

11 & 12 Sleep and Dreaming: Stages of sleep, patterns of sleep, fast wave and slow wave sleep and their relationship to dreaming. Sleep depreviation and its effects. Conditioning during sleep, Insomnia, narcolepsy, chemical factors in the control of sleep. The effects of brain transcations on sleep and waking. The influence of electrical stimulation on sleep. Brainsten mechanism controlling dreaming, overview of active and passive theories of sleep.

13

The influence of early visual and sematosensory stimulation on brain and sensory development.

## READING LIST FOR PSYCHOLOGY 381-3

Thompson, R.F. Foundations of Physiological Psychology. Harper & Row Tower, D.B. The nervous system, The Basic Neurosciences. Raven. Schade and Ford. Basic Neurology. Elsevier.

Note: the first listing will be the basic text and the other listings are books from which selected readings will be assigned.

#### NEW COURSE PROPOSAL FORM

#### 1. Calendar Information

#### Department: PSYCHOLOGY

APPENDIX

G-

Abbreviation Code: <u>PSYC</u> Course Number: <u>382</u> Credit Hours: <u>3</u> Vector: <u>2-2-0</u> Title of Course: Physiology of Complex Behaviour

Calendar Description of Course: A consideration of the central nervous systems which control and regulate higher order complex behaviour. Exphasis on human data. The complex behaviour considered includes learning, memory, information processing, emotion, aggression and language.

Nature of Course: Lecture and Tutorial

Prerequisites (or special instructions): Psych 381 or 380 Psych 300 recommended

What course (courses), if any, is being dropped from the calendar if this course is approved: Psyc 380. Psych 380, now offered twice a year, will be substituted by Psych 381 and 382 each of which will be offered once per year.

2. Scheduling

How frequently will the course be offered? Once a year Semester in which the course will first be offered? Fall 1978 Which of your present faculty would be available to make the proposed offering possible? Drs. Weinberg, Davis, and Beyerstein

- 3. <u>Objective of the Course</u>: To develop a comprehensive understanding of the theory and data relevant to the physiological basis of learning and memory, language, aggression, reward and punishment.
- 4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty:NoneSee a haveStaff:NoneLibrary:NoneAudio Visual:NoneSpace:None

Equipment: None

5.	Approv Date:	6 Qet 18	<b>OCT</b> 3 1 1978	15 Mas 78
		Marinan	RCBIOW	Unun A. Kaelle
		Department Chairman	Dean	Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline). March '78

## PSYCHOLOGY 382

## Physiology of Complex Behaviour

- 1. An introduction to the history of issue of localization of function in the brain.
- 2. Lesions of the brain and their reference on learning and memory.
- 3. Electrical changes in the brain during information processing, learning and retrieval of information.
- 4. The influence of electrical and chemical stimulations of the brain on learning and memory.
- An overview of current theoretical concepts of brain functions related to coding and retention of information.
- The use of electrical stimulation of the brain as reward and reinforcement: The data and current interpretations.
- 7. Brain systems involved in language. Physiological bases of aphasia and other language disorders.
- 8. Brain systems controlling and regulating aggression. Data bearing on the control of aggression through lesions and stimulation of the brain.
- 9. The use of drugs for the control of emotion.
- 10. The use of Psychosurgery and electroconvulsive shock for treatments of behavioural disorders. The evidence and relevant interpretations.
- 11. The phenomena of recovery of function after brain lesions. Theoretical explanations and implications for the analysis of brain systems.
- 12. An overview and review.

#### READING LIST FOR PSYCHOLOGY 382

Carlson, Physiology of Behavior. Wiley.

Boddy, Physiology and Psychological Concepts. Wiley. Luria, Human Brain and Psychological Processes. Harper & Row. Karczmar and Eccles, Brain and Human Behavior. Springer-Verlag. Pribram, Languages of the Brain. Prentice Hall.

Note: The first listing is the basic text for the course. The additional listings are for selected readings.

## SIMON FRASER UNIVERSITY

## MEMORANDUM

To ,	Dr. Elinor Ames	fiom	Cail Tesch
	Psychology Department		Psychology Librarian
Subject	New Course Proposals	Date	10 November 78

Of the six new course proposals submitted to the Library for assessment, four of them (PSYC 280, 336, 381, and 382) are essentially a reorganization of existing courses and as such do not place new demands on the collection. PSYC 300 is a laboratory course which will be well supported by the materials now in the science collection.

PSYC 356 - Developmental Disorders is the only proposal which current holdings do not appear to support adequately. We lack 11 of the 28 monographs and 5 of 24 serials on the reading list, which is indicative of our general weakness in an area with a large bibliography.

Janet Strayer has advised us that 90% of the readings will be from textbooks, while the remaining 10% will use other sources, and that there will be considerable reliance on materials currently being acquired for the new applied and clinical psychology program. Also, the projected enrolment of 15 to 20 students should not place too great a burden on library resources. It should be noted that materials acquired for courses in learning disabilities (EDUC 326 and 422) will be of use to students in PSYC 356.

In view of the above information, the price of bringing the strength of the collections up to a desirable level can be relatively modest. Our estimate of costs are as follows:

Monographs (20-30 titles @ av.	\$25.00)	\$600
Serials (6 subscriptions @	\$20-\$60)	\$250
Backfiles		\$200

\$1,050



GT:vk Encl.

cc: <sup>7</sup>H. Evans, Registrar L.E. Thomas