# SIMON FRASER UNIVERSITY

#### MEMORANDUM

5.76-154

Senate To	Senate Committee on Undergraduate
	Studies
Course Changes — Department of Subject Archaeology	Date18th November, 1976

Action taken by the Senate Committee on Undergraduate Studies at its meeting of November 16, 1976 gives rise to the following motion:

#### MOTION 1

That Senate approve, and recommend approval to the Board of Governors, the prerequisite changes set forth on page / of S.76 45 4 as follows:

For Archaeology 272-3 from "prerequisite: ARC. 101 or 131" to "prerequisite: ARC.131 is recommended" and for ARC.273-3 from "prerequisite: ARC.101 or 131" to "prerequisite: ARC. 101 is recommended".

Note - ARC. 101 and 131 were introduced as prerequisites on a trial basis this year. It is now the judgment of the Department that lessening the prerequisite will make the courses more widely available to interested students without jeopardizing their quality.

#### MOTION 2

That Senate approve, and recommend approval to the Board of Governors, the proposed new courses, ARC.340-3 Introductory Zooarchaeology and ARC.440-3 Advanced Zooarchaeology.

Note - The introduction of these two courses is entirely consistent with the orientation and objectives of the Department. The courses reflect the appointment of Dr. Richard Casteel during the past year to provide leadership in the field of Zooarchaeology.

Daniel R. Birch

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# Scus 76-45A

#### FACULTY OF ARTS

CALENDAR SUBMISSION

1977-78

#### DEPARTMENT OF ARCHAEOLOGY

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ARC 273-3

Prerequisite Change: From "Prerequisite:
ARC 101 or 131."

to: "Prerequisite: ARC 131 is recommended.

SEE APPENDIX A

Prerequisite Change: From "Prerequisite:
ARC 101 or 131."

to: "Prerequisite: ARC 101 is recommended.

SEE APPENDIX B

#### Rationale:

ARC 101 or 131 were put in as prerequisites for  $^{\prime\prime}$  ARC 272 and 273 this year on a trial basis as part of a larger curricular revision. There have been some complaints from students in Latin American Studies that with these requirements it forces them to take too much Archaeology to get into the upper division Latin American Archaeology courses. This same situation is potentially true for African Middle East Studies. After considerable discussion the department decided that it should return to the previous situation in which 272 and 273 had no prerequisites. Neither of the courses in question are majors or honors requirements. They do have considerable appeal to other students and as such they should be more avaiable to them. This change also brings these courses in line with many 200 level Faculty of Arts courses which do not have prerequisites.

ARC 340-3

New Course Proposal

SEE APPENDIX C

New Course Proposal

SEE APPENDIX D

#### SENATE COMMITTEE ON UNDERGRADUATE STUDIES

## NEW COURSE PROPOSAL FORM

	Calendar Information Department: Archaeology						
	Abbreviation Code: ARC Course Number: 272 Credit Hours: 3 Vector: 2-1-0						
	Title of Course: Archaeology of the Old World						
	Calendar Description of Course: A survey of Old World Prehistory from the Paleolithic to the Bronze Age. Basic concepts used in reconstructing prehistoric cultures, and the artifactual, fossil, and contextual evidence for the evolution of man and culture.						
	Nature of Course Lecture/Tutorial						
	Prerequisites (or special instructions):						
	ARC. 131 is recommended						
	What course (courses), if any, is being dropped from the calendar if this course is approved:						
2.	Scheduling						
	How frequently will the course be offered?						
	Semester in which the course will first be offered?						
	Which of your present faculty would be available to make the proposed offering possible?						
3.	Objectives of the Course						
	$\cdot$						
4.	Budgetary and Space Requirements (for information only)						
	What additional resources will be required in the following areas:						
	Faculty						
	Staff						
	Library						
	Audio Visual						
	Space						
	Equipment						
5.	Approval // (						
	Date: September 15, 1976 / 00 · 5 / 76						
	Ladow J. M. Muno						
	Department Chairman Dean Chairman, SCUS						

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

Attach course outline).

Oct. '73

#### SENATE COMMITTEE ON UNGUEGRADUATE STUDIES

# NEW COURSE PROPOSAL FORM

C 76-9C

Calendar Informat	ion			Department: Arch	naeology
Abbreviation Code	_•	urse Number:	340	Credit Hours: 3	_ Vector: 3-0-0
Title of Course:		Zooarchaeolog	У	•	
Calendar Descript: studies within major concepts from archaeolog	and approache	of Archaeology es utilized in	the study	ination of the role  a detailed review of  of sub-fossil faur	of the
	3 hours of 1	lecture per wee	∍k	·	•
Nature of Course	Lectur	e.	Any lower	division archaeol	ogy course
Prerequisites (or	special ins	tructions);	Party Tower	• •	
		de kadaa da	anned from	- the celendar if	this course is
What course (course approved:	one '	, 18 being dr		,	
approved.	one				•
Scheduling			•		
How frequently wil	1 the course	e be offered?	Once per	academic year.	3
Semester in which	the course t	will first be	offered?	semester,	1977~3
. Which of your pres possible? Casteel	ent faculty	would be ava	ilable to	make the propose	& offering
Objectives of the	Course			•	6
of the role of with the necess for studies of	faunal remains ary informate sub-fossil for gration of data and cultural	ns in Archaeol ion to illustr aunal material ta and conclus data will be	ogy. The cate the man s and the r ions from s stressed.	roduction to and uncourse will provide MREXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	e the student the rationale ey are carried
What additional re	sources will	be required	in the fo	llowing areast	
Faculty			•	•	•
Staff			•		, i
•	rial will hev	e to be placed	on Reserv	e.	
Audio Visual occass		•			ary.
_		• • •	•	i .	
Space lecture room.		•		•	**
Equipment see A/V r	requirements	above.			•
Date: Jehr 30	1976	Nov.	5/76		
P.C.	ulsen	J. M.	Mun	<u> </u>	
Department (	hairmen	D	ean	Ch	airman, SCUS

# Change of Prerequisite only.

## SENATE COMMITTEE ON UNDERGRADUATE STUDIES

## NEW COURSE PROPOSAL FORM

1,	. Calendar Information		Department:	Arc	chaeology	
	Abbreviation Code: ARC Course Number:	273	Credit Hours:	3	Vector:	2-1-0
	Title of Course: Archaeology of the New Wor	1d				
		of nto and	Peru, and the o	the ult	rise of ural	the
	Nature of Course Lecture/Tutorial					
	Prerequisites (or special instructions):					
			• .			
	ARC 101 is recommend	ed.			•	
	What course (courses), if any, is being drop approved:  None	ped	from the calendar	if t	his cours	e is
2.	Scheduling					
	How frequently will the course be offered?					
	Semester in which the course will first be o	ffer	ed?			
	Which of your present faculty would be avail possible?	able.	to make the propo	sęd	offering	
3.	Objectives of the Course					
4.	Budgetary and Space Requirements (for inform	atio	n only)			
	What additional resources will be required i	n th	e following areas:	•		
	Faculty			•		
	Staff					
	Library					
	Audio Visual					
	Space		•		•	
	Equipment					
5.	Approval Date: September 15, 1976  O	/70	/s		,	
	Halro J. M.	Mu	mc			
	Department Chairman Des	an		Chai	irman, SCI	iS

## Introductory Zooarchaeology (ARC 549

#### Reserve Reading:

- Wyman, J. 1869. On the fresh-water shell-heaps on the St. John's River, eastern Florida. American Naturalist, 2: 393-403, 449-463.
- Wintemberg, W.J. 1919. Archaeology as an aid to zoology. Canadian Field Naturalist, 33: 63-72.
- Hargrave, L.L. 1938. A plea for more careful preservation of all biological material from prehistoric sites. *Southwestern Lore*, 4(3): 47-51.
- Gilmore, R.M. 1946. To facilitate cooperation in the identification of mammal bones from archaeological sites. *American Antiquity*, 12: 49-50.
- Gilmore, R.M. 1949. The identification and value of mammal bones from archaeological excavations. *Journal of Mammalogy*, 30: 163-169.
- Olsen, S.J. 1959. The archaeologist's problem of getting non-artifactual materials interpreted. *Curator*, 2(4): 335-338.
- Daly, P. 1969. Approaches to faunal analysis in archaeology. American Antiquity, 34(2): 131-145.
- Butzer, K.W. 1975. The ecological approach to archaeology: are we really trying? American Antiquity, 40(1): 106-111.
- Fitch, J.E. 1966. Additional fish remains, mostly otoliths, from a Pleistocene deposit at Playa del Rey, California. Los Angeles County Museum Contributions in Science, 119.
- White, T.E. 1953. A method of calculating the dietary percentage of various food animals utilized by aboriginal peoples. *American Antiquity*, 18(4): 396-398.
- Nimmo, B.W. 1971. Population dynamics of a Wyoming pronghorn cohort from the Eden-Farson site, 48SW304. Plains Anthropologist, 16(54): 285-298.
- Weide, M.L. 1969. Seasonality of Pismo clam collecting at Ora-82. University of California Archaeological Survey, Annual Report, 11: 127-142.
- Clark, G.R., II. 1968. Mollusk shell: daily growth lines. Science, 161: 800-902.
- Kennish, M.J. and R.K. Olsson. 1975. Effects of thermal discharges on the microstructural growth of Mercenaria mercenaria. Environmental Geology, 1: 41-64.
- Bowen, J. 1975. Probate inventories: an evaluation from the perspective of zooarchaeology and agricultural history at Mott farm. Historical Archaeology, 9: 11-25.

## ARC 340 (Introductory Zooarchaeology)

Texts: Casteel, R.W. 1976. Fish Remains in Archaeology and Paleo-Environmental Studies. Academic Press. London.
Chaplin, R.E. 1971. The Study of Animal Bones from Archaeological Sites.
Academic Press. London.

Reserve Reading: See attached

#### Course Outline:

Older Works Approaches to Faunal Analysis Framework for Interpretation General Works Microscopic Examination Biases in Faunal Sampling Ethnographic Data and Archaeological Experiments Estimation of Weight and Dietary Index Cultural versus Natural Bone Minimum Number of Individuals Relative Frequency of Species Butchering Techniques Reconstruction of Man-Days Seasonal Dating Incremental Growth Structures Environmental Reconstruction Domestication

# SENATE COMMITTEE ON UNDERGRADUATE STUDIES

# NEW COURSE PROPOSAL FORM

Calendar Information	:	Departmenti	Archaeology
Abbreviation Code: ARC Course Number	440	Credit Hours:	3 Vactor: 1-0-3
Title of Course: Advanced Zooarchaeology	*	•	
Calendar Description of Course: A detail to the study of faunal materials from a quantitative analysis of recent and sub-	led examination	l sites with an	pts and approaches emphasis upon
			•
rectare / rap	0124019	of lab per week	•
Prerequisites (or special instructions)		• .	
ARC 340 (Introductory Zooarchaeology)		·	
What course (courses), if any, is being approved: none	dropped from	n the calendar	: if this course is
Scheduling	•	•	
How frequently will the course be offere	ed? Once per a		
Semester in which the course will first	be offered?	Spring semest	er, 1978 -1
Which of your present faculty would be a possible? Casteel			occi offering
Objectives of the Course	•		
To permit detailed analysis of major the with direct laboratory research work a laboratory work will problem oriented a more major theoretical problems.	t an advanced	level of study	. Such
Budgetary and Space Requirements (for in	formation on	1y)	•
What additional resources will be requir	ed in the fo	llowing areas	1
Faculty	•	•	•
Staff One TA or lab assistant to help with	laboratory o	peration.	•
Library Some material will be placed on Re-			
•	<b>1</b>	ent'will he rec	mired
Audio Visual Occas ional use of slide proj			
Space Full operation of the Department's re-	centry runded	· ·	assumea.
Equipment Two low-power binocular microscop with accessories will be required	pes and two h	igh-power components conduct the la	ound microscopes aboratory.
Date: September 30:76.	ov. 5/76	•	
PP Carlon A.1	U. Mun	<b>c</b>	
Department Chairman	Dean		Chairman, SCUS
	•	. •	

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

#### Reserve Reading:

- Mori, J.L. 1970. Procedures for establishing a faunal collection to aid in archaeological analysis. American Antiquity, 35(3): 387-389.
- Grimes, W.F. 1969. On co-operation. In P.J. Ucko and G.W. Dimbleby (eds.), The Domestication and Exploitation of Plants and Animals: xxii-xxvi. Aldine. Chicago.
- Olsen, S.J. 1968. Fish, amphibian, and reptile remains from archaeological sites.

  Part I. Southeastern and southwestern United States. Papers of the Peabody Museum of Archaeology and Ethnology, Harvard University, 54(2).
- Ziegler, A.C. 1973. Inference from prehistoric faunal remains. Addison-Wesley. Reading.
- Kishinouye, K. 1911. Prehistoric fishing in Japan. Journal of the College of Agriculture, University of Tokyo, 2: 328-382.
- Pannella, G. 1971. Fish otoliths: daily growth layers and periodical patterns. Science, 173(4002): 1124-1127.
- Olsen, S.J. 1961. The relative value of fragmentary mammalian remains. American Antiquity, 26(4): 538-540.
- Thomas, D.H. 1969. Great Basin hunting patterns: a quantitative method for treating faunal remains. American Antiquity, 34(4): 392-401.
- Casteel, R.W. 1974. A method for estimation of live weight of fish from the size of skeletal elements. American Antiquity, 39(1): 94-98.
- Parmalee, P.W. and W.E. Klippel. 1974. Freshwater mussels as a prehistoric food resource. American Antiquity, 39(3): 421-434.
- Bökönyi, S. 1972. Zoological evidence for seasonal or permanent occupation of prehistoric settlements. In P.J. Ucko, R. Tringham, and G.W. Dimbleby (eds.), Man. Settlement and Urbanism: 121-126.
- Saxon, A. and C. Higham. 1969. A new research method for economic prehistorians. American Antiquity, 34(3): 303-311.
- Clark, G.R., II. 1974. Calcification on an unstable substrate: marginal growth in the mollusk *Pecten diegensis*. *Science*, 183(4128): 968-970.
- Evans, J.W. 1972. Tidal growth increments in the cockle Clinocardium nuttalli. Science, 176: 416-417.
- Drew, I.M., D. Perkins, Jr., and P. Daly. 1971. Prehistoric domestication of animals: effects on bone structure. *Science*, 171(3986): 280-282.
- McConnell, D. and D.W. Foreman, Jr. 1971. Texture and composition of bone. Science, 172(3986): 971-972.

## ARC 440 (Advanced Zooarchaeology)

Texts: Casteel, R.W. 1976. Fish Remains in Archaeology and Paleo-Environmental Studies. Academic Press. London.

Chaplin, R.E. 1971. The Study of Animal Bones from Archaeological Sites. Academic Press. London.

Gilbert, B.M. 1973. Mammalian Osteo-Archaeology: North America.
Missouri Archaeological Society. Columbia.

Olsen, S.J. 1964. Mammal remains from archaeological sites, part I, southeastern and southwestern United States. Papers of the Peabody Museum of Archaeology and Ethnology, 56(1).

Peabody Museum of Archaeology and Ethnology, 56(1).

Anderson, R.M. 1965. Methods of Collecting and Preserving Vertebrate Animals.

National Museum of Canada, Bulletin No. 69.

Reserve Reading: See attached.

#### Course Outline:

Establishing a Faunal Collection
Maceration Techniques
Collection of Basic Data
Weights and Measures
Scale Sampling
Preparation of Slides
Basic Osteometrics
Data Preparation
Basic Computer Data Processing
Data Analysis and Hypothesis Testing
Specimen Collection