MEMORANDUM

To: Members of Senate

From: Dean of Graduate Studies Office

Graduate Calendar Changes -
Department of Archaeology

Date: December 21, 1976

MOTION I: That Senate approve the Graduate Calendar Changes in the Department of Archaeology.

MOTION II: That Senate approve the following new courses:
Arch 840-3, Arch 872 (Non-credit) and Arch 876-5

These changes were approved by the Senate Graduate Studies Committee on December 13, 1976 and the Executive Committee of the Senate Graduate Studies Committee on December 20, 1976.

Jon Wheatley
Dean of Graduate Studies.
Change in Description: From: "The department offers specialization in Archaeology, Physical Anthropology and Ethnology. Students are expected to gain a broad theoretical knowledge in the discipline and engage in one or more areas of specific research."

to: "The department offers specialization in Archaeology, Physical Anthropology, Ethnology, Archaeometry and Zooarchaeology. The student is expected to gain a comprehensive understanding of the discipline. In so doing, he/she should strive to acquire a general knowledge of world prehistory, physical anthropology and archaeological theory and method, in addition to obtaining knowledge and expertise in particular areas of research interest."

Rationale: The revision offers a better description of the current program.

Change in Requirements: From: "A graduate student's main concentration will be on a thesis and not on formal course work. For the M.A. degree, minimum requirements are four one-semester courses and a thesis. For the Ph.D. degree, requirements are one course and a thesis, excluding seminars. This course may extend beyond one semester's duration and is designed particularly to equip the candidate for his/her research and thesis. Although the Department recognizes that a knowledge of languages other than English is desirable, it does not have any prescribed language requirements. However, where it is evident that a language knowledge is necessary for the candidate's field work or reading, she/he will be required to attain the necessary language proficiency."

to: "A distinction is made between students who are enrolled in the programme and students who have been formally advanced to degree candidacy. A candidate is a student who has successfully completed the requirements for advancement to candidacy (defined below). Normally it is expected that advancement to candidacy will take place by the time the University residence requirement is fulfilled but not later than the end of the 9th semester after admission for Ph.D.
students, not later than the end of the 6th semester for M.A. students.

M.A. Programme

Course requirements: In addition to the thesis, the normal course requirements for the M.A. degree consist of a minimum of one semester courses including at least 12 semester hours of graduate course credit.

Advancement to Candidacy: The requirements for advancement to candidacy are:

1. Preparation of thesis prospectus and completion of at least three courses. The purpose of the prospectus shall be to discuss the proposed research and general background relevant to the research. The prospectus is expected to be submitted to the supervisory committee and approved before Step 2 is undertaken.

2. After approval of the thesis prospectus, and after consultation with the Supervisory Committee, either a) or b) shall take place:
   a) the student will present a seminar, the topic of which shall be the substance of the prospectus, or
   b) the student may take a set of written exams on the area of proposed research and related topics.

   a) above is not to be considered a defense of the prospectus, per se, but a means whereby the student may benefit from the collective expertise of the department.

Thesis: After steps 1 and 2 above are completed, the student will be advanced to candidacy and will proceed to complete and defend the thesis. The topic of the defense should be the thesis itself, and related matters.

Ph.D. Programme

Course requirements: Course requirements for the Ph.D. degree are to be determined in consultation with the student's supervisory committee. In addition, students must take ARCH 872.

Advancement to Candidacy: Formal advancement to candidacy shall take place when the following have been completed:

1. The student shall prepare a prospectus and hold a departmental colloquium on the thesis topic
as described in the M.A. programme above.

2. A second colloquium shall center upon a secondary area of interest.

Topics and scheduling of these colloquia will be determined in consultation with the student's supervisory committee.

Thesis: After the above have been accomplished, the student shall be advanced to candidacy and will proceed to complete and defend the thesis. The topic of the thesis defense should be the thesis itself and related matters.

Although the Department recognizes that a knowledge of language other than English is desirable, it does not have any prescribed language requirements. However, where it is evident that knowledge of a language is necessary for the candidate's field work or reading, she/he will be required to attain the necessary language proficiency.

Rationale:

a) The distinction between "candidate" and "student" has been formulated so that the student has a scale for ongoing progress through the programme.

b) A thesis prospectus will be required so that students formulate their thesis research plans before, not after, completing field work.

c) It is proposed that M.A. students present a department seminar and Ph.D. students hold two colloquia. These seminars and colloquia will provide a forum wherein the student may obtain feedback on his/her research goals, strategies, etc.; they will also promote a broader awareness of graduate research projects.

d) Course requirements for the M.A. are unchanged. Experience has shown that course requirements for the Ph.D. student is best determined on a case by case basis.

NEW COURSE PROPOSAL (APPROVED BY F.A.G.SON NOV. 4)

NEW COURSE PROPOSAL (SEE APPENDIX A)

NEW COURSE PROPOSAL (SEE APPENDIX B)
New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Archaeology
Course Number: 840
Title: Seminar in Zooarchaeology
Description: Intensive examination of certain key topical areas of faunal studies in archaeology.

Credit Hours: 3
Vector:
Prerequisite(s) if any:

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: 5 - 10
When will the course first be offered: 77 - 3
How often will the course be offered: once every one or two years

JUSTIFICATION:

The course will permit detailed in-depth examination and discussion of specialized areas of faunal studies within an archaeological context.

RESOURCES:

Which Faculty member will normally teach the course: Dr. R. Casteel
What are the budgetary implications of mounting the course: existing faculty member's time

Are there sufficient Library resources (append details): The library resources are excellent

Appended: a) Outline of the Course
b) An indication of the competence of the Faculty member to give the course.
c) Library resources

Approved: Departmental Graduate Studies Committee: 
Date: Oct 6/76

Faculty Graduate Studies Committee: 
Date: Nov 9/76

Faculty: 
Date: 

Senate Graduate Studies Committee: 
Date: 22 Dec 1976

Senate:
ARC 840 (Seminar in Zooarchaeology)

Reserve Reading: See attached.

Course Outline:

1-2 Discussion of early approaches to Zooarchaeology
3-4 Microscopic Examination
5 Ethnographic Data and Archaeological Experiments
6 Estimation of Weight
7 Cultural vs. Natural Bone
8 Minimum Number of Individuals
9 Reconstruction of Human Population Sizes
10 Seasonal Dating
11 Environmental Reconstruction
12 Problems in Domestication
OLDER WORKS:


APPROACHES TO FAUNAL ANALYSIS:


New York.


FRAMEWORKS FOR INTERPRETATION:


GENERAL WORKS:


GENERAL WORKS (Continued):


MICROSCOPIC EXAMINATION:


BIASES IN FAUNAL SAMPLING:


ETHNOGRAPHIC DATA AND ARCHAEOLOGICAL EXPERIMENTS:


ESTIMATION OF WEIGHT AND RELATIVE DIETARY INDEX:


CULTURAL VS. NATURAL BONE:


MINIMUM NUMBER OF INDIVIDUALS:


RELATIVE FREQUENCY OF SPECIES: by weight


by MNI x average weight


**BUTCHERING TECHNIQUES:**


**RECONSTRUCTION OF KCAL (MAN-DAYS):**


**SEASONAL DATING:** by species present

Cleland, C.E. 1966. (see entry under "relative frequency of species" above).


by age structure of thanatocoenosis


by annular structures


by other methods


INCREMENTAL GROWTH STRUCTURES: mammals


reptiles


invertebrates


ENVIRONMENTAL RECONSTRUCTION:


**DOMESTICATION:**


**NEWER PROBLEMS:**


**NOTE:** under "Domestication" following ref. to Anon. 1973 please add:

CURRICULUM VITAE

Richard W. Casteel

Professional Articles:


Papers Under Review:

Casteel, R.W. Identification of the native California cyprinids based upon their basioccipitals. *Paleo-Bios.*


Casteel, R.W., D.P. Adam, and J.D. Sims. Late Pleistocene and Holocene remains of *Hysterocarpus traski* (Tule perch) from Clear Lake, California, and inferred Holocene temperature fluctuations. *Quaternary Research.*

Casteel, R.W. Human population estimates for hunting and gathering groups based upon net primary production data: examples from the Central Desert of Baja California. *Human Ecology.*

Books:


Professional Papers:

1969 "The recovery of fish remains from archaeological sites". Paper delivered to joint meeting of Society for California Archaeology and Center for Archaeological Research, Davis. October 26. Sacramento, California.

1970 "Fish and Indians in the Delta Area". Paper delivered to California Fish and Game Department, Inland Fisheries Branch. February 27. Sacramento, California.


1973 "Assessment of live weight and minimum number of individuals of fishes found in the archaeological context." Paper presented at the 38th annual meeting of the Society for American Archaeology, San Francisco, California, 5 May.


1975 "Environmental reconstruction in archaeology and geology". Paper presented at Stanford University, 12 February.

1975 "Man and environment: some predictive models of human carrying capacity". Paper presented at the University of California, Santa Cruz, 28 April.

1975 "Comparison of column and whole unit samples for recovering fish remains". Paper presented at the 40th annual meeting of the Society for American Archaeology, Dallas, Texas, 8 May.

Fellowships and Research Grants:
1. NDEA IV 1970-1972, University of California, Davis.

Foreign Languages: Russian, German, Spanish, French
SIMON FRASER UNIVERSITY

New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Archaeology
Course Number: 872

Title: Graduate Seminar in Archaeology and Prehistory

Description: A seminar on selected problems in archaeological science and prehistory

Credit Hours: Non credit
Vector: Graduate
Prerequisite(s) if any: Standing

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: 15
When will the course first be offered: 77-3/77-4
How often will the course be offered: Semesters 1 and 3 annually.

JUSTIFICATION:

A forum is needed for sophisticated, in depth examination of current problems, concepts and empirical research in Archaeology.

RESOURCES:

Which Faculty member will normally teach the course:

What are the budgetary implications of mounting the course:

Are there sufficient Library resources (append details): Yes

Appended:

a) Outline of the Course (Example appended)
b) An indication of the competence of the Faculty member to give the course.
c) Library resources

Approved:

Departmental Graduate Studies Committee: Date: Nov 16, 1976
Faculty Graduate Studies Committee: Date: Nov 20, 1976
Faculty: Date: Nov 20, 1976
Senate Graduate Studies Committee: Date: 2-2 Dec 1976
Senate:
The graduate students have in fact been running an informal, weekly seminar. We wish to formalize and expand it as a valuable component of the programme (which it has been and continues to be).

The range of potential topics for this course is so wide that any outline would be misleading. Topics covered this far in the informal forum are given below:

76-1

1. Australian ethno-archaeology
2. Concepts of cultural-historical unit in Northwest Coast Archaeology
3. Archaeology of the Gulf Islands
4. Ecological approaches to the study of fossil hominids
5. Quantitative consideration of the distribution of Eskimo Groups
6. Values: a model for human evolution
7. Historic archaeology in the Peace River District
8. Prehistory of Northeastern North America
9. Method in salvage archaeology
10. Pictographs and petroglyphs in the B. C. Interior
11. Archaeology in Montana

76-3

1. Contract archaeology
2. Human dentition and growth patterns
3. Models in archaeology
4. Archaeology of the Canadian East Coast
5. Stochastic process models and archaeological method
6. Bureaucratic archaeology
7. Archaeology as archaeology
SIMON FRASER UNIVERSITY
New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Archaeology 
Course Number: 876
Title: Selected Topics in Archaeological Method
Description: Seminar focusing on examination of archaeological method from historical/mathematical/statistical perspective.
Credit Hours: 5 Vector: 
Prerequisite(s) if any: Graduate standing and one of ARCH 376, MATH 101, PSYC 210, or equivalent

ENROLLMENT AND SCHEDULING:
Estimated Enrollment: 10 When will the course first be offered: 77-3
How often will the course be offered: annually

JUSTIFICATION:
Use of mathematical and statistical models in archaeological research is becoming commonplace. Thorough grounding in these matters is undeniably important to sound graduate training.

RESOURCES:
Which Faculty member will normally teach the course: Jack D. Nance
What are the budgetary implications of mounting the course: none
Are there sufficient Library resources (annex details): yes

Appended:
1) Outline of the Course
2) An indication of the competence of the Faculty member to give the course.
3) Library resources

Approved: Departmental Graduate Studies Committee: Date: 
Faculty Graduate Studies Committee: Date: Nov. 25/76
Faculty: Date: 
Senate Graduate Studies Committee: Date: 22 Dec. 1976
Senate: Date:
SAMPLE COURSE OUTLINE

I. General Considerations
   A. Archaeology: science or natural history?
   B. The empiricist approach: pattern.
   C. The deductivist approach: process

II. Analytic units in archaeological enquiry
   A. Traditional observational units: temporal/spatial
   B. Traditional analytic units: temporal/spatial
   C. Units of observation and analysis in behavioral context: process.

III. Variety in archaeological variables: measurement and description.
   A. Variables of a continuous nature
   B. Variables of a discrete nature

IV. Description of univariate archaeological phenomena: relating pattern to process.
   A. Modeling continuous archaeological variables
   B. Modeling discrete archaeological variables

V. Multivariate description of archaeological phenomena
   A. Definition of archaeological "supervariables"
   B. Multivariate space/time/process models of archaeological phenomena

VI. Classification and taxonomy in archaeology.
   A. Polythetic vs. monothetic criteria
   B. Non-dimensional models of archaeological phenomena

VII. Archaeological models and archaeological research design
   A. Time models
   B. Space models
   C. Process models
   D. Sampling models
READING LIST:

Since the proposed course will be a seminar the students will, in practice, compose their own reading list with advice of the professor. A partial list of relevant literature appears below:

Binford, L. R.  
1968  

Binford, L. R. and S. R. Binford (Editors)  
1968  
New Perspectives in Archaeology. Aldine.

Chang, K. C.  
Rethinking Archaeology. Random House.

Clarke, David L.  
1972  
Models in Archaeology. Methuen.

1968  
Analytic Archaeology. Methuen.

Derman, C., L. J. Gleser, I. Olkin  
1973  

Doran J. E. and F. R. Hodson  
1975  

Harris, M.  
1968  

Krumbein, W.C. and F. A. Graybill  
1965  

Meuller, J. (Editor)  
1975  
Sampling in Archaeology. University of Arizona Press.

Redman, C. L. (Editor)  
1975  
Current Research and Theory in Archaeology. Wiley.

Rouse, I.  
1972  
Introduction to Prehistory. McGraw-Hill

Schiffer, M.B.  
1976  
Behavioral Archaeology. Seminar Press.

Sneath, P.H.A. and R.R. Sokal  
1973  

Sokal, R.R. and F.J. Rohlf  
1969  
Biometry. W. H. Freeman

Taylor, W. W.  
1949  
A Study of Archaeology. Illinois.

Watson, P.J., C.L. Redman and S. Leblanc  
Reading List (Cont'd.)

Willey, G.R. and J. Sabloff

Willey, G.R. and P. Phillips
Curriculum Vitae

JACK DWAIN NANCE

Born: January 7th, 1942; Paducah, Kentucky, U.S.A.

Marital Status: Married; one child

Education

Undergraduate
1. University of California, Davis
   Fall 1964-Spring 1968 Anthropology
   Bachelor of Arts: June 1968

Graduate
1. University of California, Davis
   Fall 1968-Spring 1969 Anthropology
   Master of Arts: June 1969

2. University of Calgary
   Fall 1969-Winter 1971 Archaeology
   Ph.D.: May 1972
   Areas of concentration:
   a. Theory and method in archaeology
   b. Quantitative and computer applications
   c. North American archaeology
   d. Physical anthropology and human evolution
   Dissertation: "Classification of Artifacts"

Research interests

1. Quantitative techniques in archaeology
2. Archaeological systematics
3. Archaeology of North America
4. Physical anthropology

Employment

1. February 1960-November 1967 United States Air Force

2. Summer 1969 - Instructor, anthropology and geography
   Department of Social Sciences, Boise State College, Boise, Idaho.
   a. Introduction to physical anthropology
   b. Introduction to physical geography

3. September 1969-April 1970: Teaching assistant,
   Department of Archaeology, University of Calgary, Calgary, Alberta.
   a. Introduction to physical anthropology

...
   a. Introduction to cultural anthropology
   b. Introduction to physical geography

5. September 1970-April 1971: Graduate teaching assistant, Department of Archaeology, University of Calgary, Calgary, Alberta
   a. Introduction to physical anthropology

6. Summer 1971: Instructor in archaeology, Department of Archaeology, University of Calgary, Calgary, Alberta.
   a. Introduction to physical anthropology
   b. Introduction to archaeological science

7. August-September 1972: Inter-university-TVA coordinator (TVA-Murray State University-University of Tennessee) for experimental history course. Involved directing field excavations employing students in historical research from the University of Tennessee. Associate: Dr. Charles Ogilvie.

8. January 1972 - August 1973: Assistant Professor of Anthropology, Murray State University, Murray, Kentucky
   a. Introduction to physical anthropology
   b. Introduction to cultural anthropology
   c. Introduction to archaeological science
   d. Archaeological Field experience
   e. Comparative cultural analysis


10. August 1973-January 1974: Independent research under contract #39558A to Tennessee Valley Authority


12. September 1974-present: Assistant Professor of Archaeology, Simon Fraser University, Burnaby, B.C.
Fieldwork

1. Excavation of site CA-YOL-17
   Yolo County, California
   September-October 1968

2. Excavation of site CA-SAC-43
   Sacramento County, California
   January-May 1969

3. Land Between the Lakes Archaeological Project, Phase I - Archaeological Site Survey
   January-May 1972

4. Land Between the Lakes Archaeological Project, Phase II - Archaeological site survey and excavation.
   January-May 1973

5. Land Between the Lakes Archaeological Project, Phase III - excavation project.
   June-August 1973

Publications


5. A summary of work and assessment of archaeological resources in the Land Between the Lakes. School of Arts and Sciences, Murray State University, Murray, Kentucky, 1972.


Publications (Cont'd)


Papers Currently Under Review.


2. Aspects of late Archaic culture in the lower Cumberland River Valley. Tennessee Archaeologist.

Works in Preparation.

1. Quantitative method in Archaeology (textbook on use of statistics in archaeology).

2. Principal components analysis of variation in late Mississippian mortuary customs.

3. Models from the mediocre: surface site archaeology in the lower Cumberland River Valley.

4. Sites, samples and surface collections: late Archaic culture in the lower Cumberland region.

5. Probability models and the description of archaeological variables.

6. The Copeland site collection: a late Palaeoindian surface collection from western Kentucky.