

SIMON FRASER UNIVERSITY

S.80-139

MEMORANDUM

SENATE

From SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject CURRICULUM CHANGES - ARCHAEOLOGY

Date NOVEMBER 12, 1980

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of November 4, 1980 gives rise to the following motion:

MOTION

"That Senate approve and recommend approval to the Board of Governors, as set forth in S.80-139, the proposed new course ARC. 485-5 - Lithic Technology."

Subject to approval of the course by Senate and the Board of Governors, SCUS approved waiver of the two semester time lag requirement in order that the course may be first offered in Summer 81-2.

FOR INFORMATION

At its meeting of November 4, 1980, acting under its delegated authority, SCUS approved a number of changes as follows:

- ARC. 272-3 - Archaeology of the Old World - delete prerequisite
- ARC. 273-3 - Archaeology of the New World - delete prerequisite
- ARC. 301-2 - Prehistoric and Primitive Art - delete prerequisite;
- ARC. 360-3 - Indian Cultures of North America - change vector from 0-3-0 to 1-2-0, and nature of course to Lecture/Seminar;
- ARC. 438-3 - change of title.

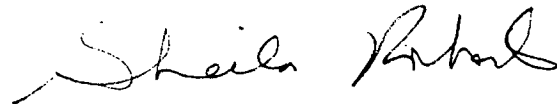


MEMORANDUM

o. Mr. H.M. Evans, Secretary S.C.U.S. Subject Curriculum Changes - Archaeology	From Sheila Roberts, Secretary Faculty of Arts Curriculum Committee Date 1980-10-27
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The Faculty of Arts Curriculum Committee at its meeting of October 23, 1980 approved the attached curriculum changes submitted by the Department of Archaeology. Would you please place the same on the agenda of the next SCUS meeting.

Thank you.



S. Roberts

Attachment

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SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

Appendix
F

Calendar Information

Department Archaeology

Abbreviation Code: ARC Course Number: 485

Credit Hours: 5 Vector: 4-0-1

Title of Course: Lithic Technology

Calendar Description of Course: An in-depth study of how to manufacture and analyze stone tools. Includes rock and mineral identification, stone working by students, fracture mechanics, and relevance to theoretical problems.

OFFICE OF THE DEAN

OCT 20 1980

FACULTY OF ARTS

Nature of Course Lecture/Laboratory

Prerequisites (or special instructions): Arc. 101 and Arc. 372;

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 every two years

Semester in which the course will first be offered?

1980-2

Which of your present faculty would be available to make the proposed offering possible? Hayden, Fladmark

Objectives of the Course

To train students in the analysis of stone tools. Archaeology relies extensively on the analysis of stone tools to date sites, to determine the cultural affiliation of sites and to determine the function of sites. The subject is therefore essential in archaeological training and is not covered by existing courses.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty none

Staff one teaching assistant

Library none

Audio Visual none

Space none

Equipment none

5. Approval

Date: October 17, 1980

NOV 4 1980

Richard Shuttles Jr.
Department Chairman

RC Brown
Dean

John Weber
Chairman, SCUS

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

LITHIC ANALYSIS AND INTERPRETATION

REQUIRED TEXTS:

Crabtree 1972. An introduction to flintworking. Pocatello:
Idaho State University Museum.

Hester and Heizer 1973. Bibliography of archaeology 1: experiments,
lithic technology and petrography. Addison-Wesley Module 29.

RECOMMENDED TEXTS:

Turner 1975. Food plants of British Columbia, Part 1. Provincial
Museum.

Hamilton, Woolley, and Bishop 1977. Larousse Guide to minerals,
rocks, and fossils.

Hayden, B. 1979. Lithic Use-Wear Analysis. Academic Press.

Relevant Journals:

Lithic Technology
Flintknapper's Exchange

Description:

This course is intended to be an indepth exploration of techniques of lithic manufacture, maintenance (resharpening), use and interpretation. It will include experience in knapping and using stone tools; hafting and use. A weekend field trip is planned, to put lithic use concepts to use. Background research on resource utilization and technology is mandatory. The course will also deal with aspects of use-wear analysis and experimentation. Research papers are due at the end. Each student will be responsible for providing a pair of gloves, safety glasses, a piece of leather or rubber to protect legs, and a hard wood billet. Enrolment is limited to 15.

1. Goals; definitions; Ethnography; pseudofacts (Europe, Africa, the Kafaun, Japan, Sozudai, and North America: Calico Hills, the Fraser Canyon); heatspalling and the real thing; what can be done with lithics? Fracture types. Film: The Flintknapper.
2. Raw materials, heat treatment, patination. Paper topics and research designs. Film: The Alchemy of time.
3. The beginnings: choppers and chopping tools and the Fraser Canyon: morphology and functions.
Field Trip: making a chopper

continued--

4. Bipolar techniques and split cobbles: morphology and functions.
(and splintered pieces) Video Tape: Boonichson
5. Flakes and retouch: morphology, functions, accidental retouch,
use-retouch, and multiple tools.
6. Bifaces and billets: edging, thinning, morphology and functions.
Video Tape: Bonnichson
7. Core techniques: Levallois, blade, and punches: microtools.
Films: The Hunter's Edge
: Stone Knapping in modern Turkey
8. Pressure flaking: the analysis of points--the degenerate
Archaic and the sophisticated PI.
Films: Ancient Projectile Points
: Blades and Pressure Flaking
: Obsidian Point Making
9. Interpretations and analysis:
 - edge angles
 - material importance
 - flake to tool ratios
 - styles
 - debitage (what to do with assemblages without tools)
 - debitage in British Columbia with Poketylo and Magne
 - morphological types vs. functional types vs. other types
 - curation
 - multi-functionality and the reasons for it
 - unidirectional trends
 - reasons for exotic materials and change over time
(Tasmania and the PI)
 - the evolution of ground stone tools
 - information and decision making theory
 - design theory
 - site function, and the problem of high density sites
e.g. Olorgesailie
 - inter-assemblage variability - how to interpret it and
criteria to be used.
10. Use-wear: causes and techniques: fractures and abrasion
the Ho Ho Report.
11. Residues.
Film: Beautiful Tree, Wooden Box
12. Context and experimentation:
Field Trip.
13. Ground stone, the Hoabinhian, and cracked rocks.

ARC 485-5
Brian Hayden

READING ASSIGNMENTS

- 1 INTRODUCTION: Collins 1975
ETHNOGRAPHY: Aiston 1928; Gould, Koster and Sontz 1971;
Mountford 1941; Vaufrey 1950; Hayden 1979; Ch. 34.
PSEUDOFACETS: Bleed 1977; Clark 1958; Mason 1965; Warren 1914;
Barnes 1939
- 2 Crabtree 1967a, 1967b, 1972 (text); Honea 1964; Hamilton et al. 1977.
- 3 Borden 1975:55-68, Mountford 1941
- 4 Binford and Quimby 1963; White 1968, Sollberger and Patterson 1976;
H. Bynes 1977; White 1977; Hayden n.d.
- 5 Clark and Thompson 1954; Clark and Haynes 1970; Hayden 1979, pgs. 63-142
- 6 Mewhinney 1964; Newcomer 1970; Callahan 1979:10-11, 33-53, 67. 90. 116-7
- 7 Aigner 1970; Bordes and Crabtree 1969; Sanger 1968, 1970
- 8 Akerman 1978; Elkin 1948; Kroeber 1961 (Chapter 9); Nagle 1914;
Crabtree 1966, 1970; Muto 1970
- 9 DEBITAGE: Hassan 1971
TYPES: Sackett 1966; White 1969; Hill and Evans 1972; Bonnichson
1977 Ch. 8.
VARIABILITY and CURATION: Binford 1973; Binford and Binford
1969, Wilmsen 1970
- 10 Keeley 1974; Tringham et al 1974; Wilmsen 1968; Witthoft 1967;
Wylie 1975; Hayden 1979; Chaps. 1, 2, 17, 18, 24, 26

READING LIST

- Aigner, J. S.
1970 The unifacial, core and blade site on Anagula Island, Aleutians. Arctic Anthropology 7:59-88.
- Aiston, George
1928 Chipped stone tools of the Aboriginal tribes east and north-east of Lake Eyre, South Australia. Papers and Proceedings, Royal Society of Tasmania 123-131.
- Akerman, Kim
1978 Notes on the Kimberley stone-tipped spear focusing on the point hafting mechanism." Mankind 11:486:489.
- Barnes, A. S.
1939 "The differences between natural and human flaking on prehistoric flint implements." American Anthropologist 41:99-112.
- Binford, L. R.
1973 Interassemblage variability--the Mousterian and the 'functional' argument. In Renfrew 227-54. The Explanation of Culture Change: Pittsburgh.
- Binford, Sally and L. Binford
1969 "Stone tools and human behavior." Scientific American 220:70-84.
- Bonnichsen, Robson
1977 Models for deriving cultural information from stone tools. Mercury Series, National Museum of Man, Archaeological Survey of Canada, Paper 60: Ottawa.
- Bleed, Peter
1977 Early flakes from Sozudai, Japan: are they man-made? Science 197:1357-59.
- Borden, Charles
1975 Origins and development of early Northwest Coast culture to about 3,000 B.C. National Museum of Man, Mercury Series, 45: Ottawa.
- Bordes, Francois and Don Crabtree
1969 The Corbiac blade technique and other experiments. Tebiwa 12: 1-21.
- Callahan, Errett
1979 "The basics of biface knapping in the eastern fluted point tradition: a manual for flintknappers and lithic analyst." Archaeology of Eastern North America 7(1):1-180.

- Clark, J. Desmond
1958 The natural fracture of pebbles from the Batoka Gorge, North Rhodesia, and its bearing on the Kafuan Industries of Africa. *Proceedings, Prehistoric Society* 34:64-77.
- Clark, J. D., and C. V. Haynes Jr.
1970 An elephant butchery site at Mwanganda's village and its relevance for Paleolithic archaeology. *World Archaeology* 1:290-311.
- Clark, J. G. D., and M. W. Thompson
1954 The groove and splinter technique of working antler in Upper Paleolithic and Mesolithic Europe, and with special reference to the material from Star Carr. *Proceedings, Prehistoric Society* 19:148-160.
- Collins,
1975 Chapter in Swanson 1975.
- Crabtree, Don
1966 "A stoneworker's approach to analyzing and replicating the Lindenmeier Folsom." *Tebiwa* 9(1):3-39.
- 1967a Notes on experiments in flintknapping:3. The flintknapper's raw materials. *Tebiwa* 10:8-25.
- 1967b Note on experiments in flintknapping:4. Tools used for making flaked stone artifacts. *Tebiwa* 10:60-73.
- 1970 Flaking stone with wooden implements. *Science* 169:146-153.
- Elkin, A. P.
1948 Pressure flaking in the northern Kimberley, Australia. *Man* (#130):110-113.
- Fitzhugh, William
1972 Environmental archaeology and cultural systems in Hamilton Inlet, Labrador. *Smithsonian Contributions to Anthropology*, Number 16. Smithsonian Institution: Washington, D.C.
- Gould, Richard A., D. A. Koster, and A. H. L. Sontz
1971 The lithic assemblage of the Western Desert Aborigines of Australia. *American Antiquity* 36:149-169.
- Hassan, Fekri
1971 Study of debitage in lithic assemblages and its uses. Pam-African Congress on Prehistory and the Study of the Quaternary, *Bulletin* 4:20-29.
- Haynes, Gary
1977 Reply to Sollberger and Patterson. *Lithic Technology* 6:5.
- Hayden, Brian (Ed.)
1979b Lithic use-wear analysis. Academic Press: New York.

- Hill, J., and R. Evans
1972 A model for classification and typology. In Clarke, D.
Models in Archaeology. Methuen, London. 231-273.
- Honea, K.
1964 The patination of stone artifacts. Plains Anthropologist
9:14-17.
- Keeley, Lawrence
1974 The methodology of microwear analysis. American Antiquity
39:126.
- Kroeber, Theodora
1961 Ishi in two worlds. University of California Press:
Berkeley.
- Mason, R. J.
1965 Makapansgat Limeworks fractured stone objects and natural
fracture in Africa. South African Archaeological Bulletin
20(77):3-16.
- MacDonald, George
1968 Debert: a Paleo-Indian site in central Nova Scotia
Anthropology Papers, National Museum of Canada, 16.
- Mewhinney, H.
1964 A skeptic views the billet flake. American Antiquity 30:203-204.
- Mountford, Charles P.
1941 An unrecorded method of manufacturing wooden implements by
simple stone tools. Transactions, Royal Society of South
Australia 65:312-316.
- Muto, Guy
1970 A stage analysis of the manufacture of stone tools. In D. M.
Aikens, (Ed.), Selected Papers, Great Basin Anthropological
Conference 1970, University of Oregon Anthropological Papers
1:109-118.
- Nagel, E.
1914 Arrow chipping by means of fire and water. American Anthro-
pologist 16-140.
- Newcomer, Mark
1970 Some quantitative experiments in hand-axe manufacture.
World Archaeology 3:85-93.
- Olsen, Larry
1973 Outdoor survival skills. Brigham Young University Press:
Provo.
- Peterson, Nicolas
1968 The pestle and mortar: an ethnographic analogy for archaeology
in Arnhem Land. Mankind 6:567-570.

- Sackett, James
1966 Quantitative analysis of Upper Paleolithic stone tools. *American Anthropologist* 68:256-294.
- Sanger, David
1968 Prepared core and blade traditions in the Pacific Northwest. *Arctic Anthropology* 5:92-120.
1970 Mid-latitude core and blade traditions. *Arctic Anthropology* 7:106-114.
- Sollberger, J., and L. Patterson
1976 The myth of bipolar flaking industries. *Newsletter of Lithic Technology* 5(3):40-41.
- Swanson, Earl (Ed.)
1975 *Lithic technology: making and using stone tools.* Mouton: The Hague.
- Tringham, Ruth, Glenn Cooper, George Odell, Barbara Voytek, and Anne Whitman
1974 Experimentation in the formation of edge damage: a new approach to lithic analysis. *Field Archaeology* 1:171-195.
- Vaufrey, R.
1950 Flake-using and biface-using peoples. *South African Archaeological Bulletin* 5:137-139.
- Warren, S. H.
1914 "The experimental investigation of flint fracture and its application to problems of human implements." *Journal, Royal Anthropological Institute* 44:512-53.
- White, J. Peter
1968 Fabricators, outils ecailles, or scalar cores? *Mankind* 6: 658-666.
1969 Typologies for some prehistoric flaked stone artifacts in the Australian New Guinea Highlands. *Archaeology and Physical Anthropology in Ocean* 4:18-46.
1977 Reply to Patterson and Sollberger. *Lithic Technology* 6:6.
- Wilmsen, Edwin N.
1968 Functional analysis of flaked stone artifacts. *American Antiquity* 33:151-161.
1970 Lithic analysis and cultural inferences. *Anthropological Papers of the University of Arizona*, #16.
- Wilson, T.
1899 Arrowpoints, spearheads and knives of prehistoric times. *Annual Report, Smithsonian Institution* (for 1897):823-988.
- Witthoft, J.
1967 Glazed polish on flint tools. *American Antiquity* 32:383-388.
- Wylie, H.
1975 Tool microwear and functional types from Hogup Cave, Utah. *Tebiwa* 17:1-31.

(L 580 -134)

Date: 6 Nov. 80

SFU LIBRARY COLLECTION EVALUATION

(To be completed only for new course or program proposals.)

1. Course No. and Name or Program: ARC 485 Lithic Technology

Date to be offered: Spring 81

2. Resources currently in collection:

Reading lists. No. and % of titles available: 54 88.5 %

Related materials in general collection:

Monographs:

Serials Subscriptions:

Backfiles:

Other:

3. Recommended additions to collection:

(Indicate approx. no. of titles, vols.,
date, as appropriate)

Monographs: 5 - 7 titles

New serials subscriptions: 1 title

Serials backfiles: 1 title 20 vols., 1911-30

Other (specify): Films 2 titles

Total

ESTIMATED COST
150.00
15.00
200.00
800.00
1165.00

4. Comments:

See attached sheet

Eve Szabo

For Library
Eve Szabo

For Faculty Department

Comments:

The Library can provide good support for this subject. A check of the standard bibliography in the field (Hester, T.R. and R.F. Heizer. Bibliography of archaeology 1: Experiments, lithic technology and petrography. 1973) showed that the Library's collection is adequate. Most of the titles lacking are articles in older, specialized and/or non-English language journals.

The basic text for mineral identification which is listed on the course outline is not in the Library's collection and should be purchased along with another 5-7 titles to build a basic collection in this area.

The Archaeology Dept. already has, or has access to, the video tapes and most of the films listed on the course outline. However, there are other films the Department would like to have and funds should be allotted to purchase at least two films immediately.

SIMON FRASER UNIVERSITY

SCUS 80-60

MEMORANDUM

S8-139

To..... Mr. H.M. Evans, Secretary.....
..... S.C.U.S.
Subject..... Curriculum Changes - Archaeology.....

From..... Sheila Roberts, Secretary.....
..... Faculty of Arts Curriculum Committee.....
Date..... 1980-10-27.....

The Faculty of Arts Curriculum Committee at its meeting of October 23, 1980 approved the attached curriculum changes submitted by the Department of Archaeology. Would you please place the same on the agenda of the next SCUS meeting.

Thank you.



S. Roberts

Attachment

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C U R R I C U L U M C H A N G E S

DEPARTMENT OF ARCHAEOLOGY

p. 100

ARC. 272-3 Archaeology of the Old World

DELETION OF PREREQUISITE

Delete "ARC. 131 is recommended."

ARC. 273-3 Archaeology of the New World

CHANGE IN PREREQUISITES

DELETE "ARC. 101 is recommended."

RATIONALE:

The department has proposed the deletion of the present prerequisites for ARC. 272 and ARC. 273, as it now requires majors to take ARC. 101, 131, 272 and 273, and they are strongly advised to take ARC 101 or ARC 131 before taking either ARC. 272 or ARC. 273. At the same time the course material is structured so that non-majors can handle the subject matter without any prerequisites.

SEE APPENDICES A & B

p. 100

ARC. 301-2 Prehistoric and Primitive Art

DELETION OF PREREQUISITES

Delete Any Lower Division Archaeology course."

RATIONALE:

The department has proposed the deletion of a prerequisite for ARC. 301 as the subject matter of the course is self-explanatory and does not require prior work in archaeology.

SEE APPENDIX C

p. 100

ARC. 360-3 Indian Cultures of North America

CHANGE OF VECTOR AND NATURE OF COURSE

From: 0-3-0

To: 1-2-0

From: Seminar

To: Lecture/Seminar

RATIONALE:

This course may be taught as a Lecture/Seminar or as a Seminar depending on the Faculty member who teaches the course

SEE APPENDIX D

ARC. 438-3 Application of Sedimentology to Archaeological Sites

CHANGE OF TITLE

From: Application of Sedimentology to Archaeological Sites

To: GEOARCHAEOLOGY

RATIONALE:

The department feels that Geoarchaeology more closely fits the course description for ARC. 438-3.

SEE APPENDIX ENEW COURSE PROPOSAL

ARC. 485-5 LITHIC TECHNOLOGY

SEE APPENDIX F

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

APPENDIX A

~~NEW~~ COURSE PROPOSAL FORM = Change in Prerequisite only

1. 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):

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

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: Oct. 6/80

Richard Hutter Jr.
Department Chairman

RC Brown
Dean

Chairman, SCUS

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

COURSE PROPOSAL FORM - Change in Prerequisite only1. Calendar InformationAbbreviation Code: ARC. Course Number: 273Department ArchaeologyCredit Hours: 3 Vector: 2-1-0Title of Course: Archaeology of the New World

Calendar Description of Course: A survey of prehistoric cultures of North and South America. The entry of man into the New World, the rise of the pre-Columbian civilizations of Mexico and Peru, and the cultural adaptations by prehistoric populations to other parts of the New World.

Nature of Course Lecture/Tutorial

Prerequisites (or special instructions):

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 Course4. 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. ApprovalDate: Oct. 6/80

Richard L. Hunter, Jr.
Department Chairman

Dean

Chairman, SCUS

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

APPENDIX C.

Department Archaeology

Credit Hours: Vector: 2-1-0

Credit Hours: Vector: 2-1-0

Credit Hours: Vector: 2-1-0

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Credit Hours: Vector: 2-1-0

APPENDIX

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

description

~~1~~ COURSE PROPOSAL FORM Change in vector/only

1. Calendar Information

Department Archaeology

Abbreviation Code: ARC, Course Number: 360 Credit Hours: 3 Vector: 1-2-0

Title of Course: Indian Cultures of North America

Calendar Description of Course: Comparative Study of the traditional cultures of North American Indians: prehistory, language, beliefs and customs

Nature of Course Lecture ~~Lecture~~/Seminar

Prerequisites (or special instructions):

ARC. 101 or 273

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

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: Oct. 6/80

Richard Shuttler Jr.
Department Chairman

RC Brown
Dean

Chairman, SCUS

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

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

APPENDIX

E

~~NEW~~ COURSE PROPOSAL FORM

Change in Course Title only

1. Calendar Information

Department Archaeology

Abbreviation Code: ARC. Course Number: 438 Credit Hours: 3 Vector: 0-0-3

Title of Course: Geoarchaeology

Calendar Description of Course:

The applications of techniques of sedimentology and pedology to the descriptive analysis of archaeological sites.

Nature of Course Laboratory

Prerequisites (or special instructions):

One lower division Archaeology course and GEOG 318 or permission of the Department.

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

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty

Staff

Library

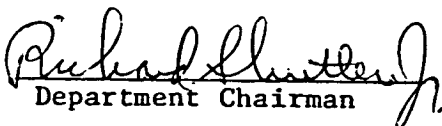
Audio Visual

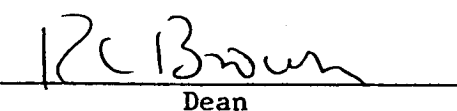
Space

Equipment

5. Approval

Date: Oct. 6/80


Department Chairman


Dean

Chairman, SCUS

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