

MEMORANDUM

To: Board of Regents
From: Board Office
Subject: Proposal for a New Bachelor of Science Degree in Anthropology at the University of Iowa
Date: April 12, 2004

Recommended Action: Refer the University of Iowa's proposal to establish a new Bachelor of Science Degree in Anthropology to the Interinstitutional Committee on Educational Coordination (ICEC) and the Board Office for review and recommendation.

Executive Summary: The University of Iowa is requesting approval for a new Bachelor of Science Degree in Anthropology in the College of Liberal Arts and Sciences.

Existing B.A. Program Currently, the Department of Anthropology offers a Bachelor of Arts degree in Anthropology that requires 33 credit hours for a major. The Bachelor of Arts program offers a comprehensive overview of anthropology's four main subfields – cultural anthropology, biological anthropology, archaeology, and linguistic anthropology – and allows students to have a deeper concentration in topics of their own interest. A minor is not required.

Proposed Program The proposed program major will require 42 credit hours. In addition to completing the requirements for the Bachelor of Arts, the Bachelor of Science students will need to fulfill requirements in a quantitative or formal reasoning tool (six credit hours) and directed laboratory or field research (three credit hours). Students will also be required to complete at least the equivalent of a minor in a related field (15 credit hours).

**Link to
Strategic
Plan:**

This effort is part of the institutional activities which help the Board of Regents achieve its objective to improve access to research opportunities at the Regent institutions as stated in its Strategic Plan:

Priority 1.0 Ensure high-quality educational opportunities for students.

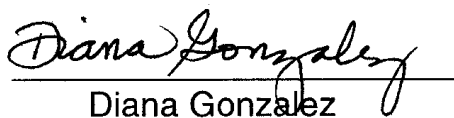
Objective 1.3 Provide educational experiences that enhance the knowledge, abilities, opportunities, and personal incomes of individual lowans through educational attainment.

Background:

This program reinforces the College of Liberal Arts and Sciences' initiative to expand the scope of science and social science education for undergraduates. By emphasizing laboratory-based practica, courses, and other directed research opportunities, the Bachelor of Science offers a path to meet the College's strategic goal to "incorporate current faculty research, scholarship, and creative work into teaching."

Regent Program
Review Questions

The University's responses to the Regent New Program Review Questions and to the Principles and Standards for Program Duplication are attached (pages 3-14).


Diana Gonzalez

Approved: 
Gregory S. Nichols

BACHELOR OF SCIENCE DEGREE IN ANTHROPOLOGY

University of Iowa

6.05 Academic Review and Program Approval

Contact Person: Professor Rudi Colloredo-Mansfeld

1. Need:

- a. ***How will this proposed program further the educational and curriculum needs of the students in this discipline?***

Anthropology is a broad field covering almost all aspects of the study of humanity, from primatology and the earliest hominid ancestors of humans to the incredible variety of religious, social and political phenomena in today's populations all over the world. Its history has embraced both science and humanities, frequently working at the interface between the two. Our current curriculum is slightly stronger in the humanities, although recent hires and program development within the department are helping to change that. A B.S. major would enable students to incorporate a wider range of scientifically based coursework and studies into their major program.

Anthropology is one of those fields that offers few job opportunities directly in anthropology at the bachelor's diploma level, but can prepare students broadly for a much wider range of employment opportunities. While the existing B.A. in Anthropology serves the needs of those in the humanities very well, a B.S. could better serve other students more interested in the scientific side. The B.S. could present stronger job credentials for those pursuing science, and it could serve as a necessary credential for those applying to graduate programs in scientific anthropology and other fields.

- b. ***How does it further the educational and curriculum needs of other units in the college or university?***

A B.S. major in anthropology would foster interdisciplinary studies with other departments, a prominent goal within the college and university. It could increase enrollments in those other departments' courses, as students choose to "double major" in Anthropology and other B.S. programs.

2. Duplication and Collaboration

a. *What programs in this field of study are available in other colleges and universities in Iowa?*

Although seven other institutions in Iowa* offer bachelors degrees in anthropology, only Iowa State University offers a bachelor of science major in addition to a bachelor of arts major.

*ISU; UNI [as part of the Sociology department]; Luther College; Grinnell College; Drake University [as Anthropology and Sociology in the Department for the Study of Culture and Society]; Central College [Department of Sociology and Anthropology]; and Cornell College [Department of Sociology and Anthropology]

b. *With what representatives of these programs has there been consultation in developing this proposal? Provide a summary of the responses of each institution consulted.*

The Department of Anthropology at Iowa State University was contacted, since they are the only Iowa institution currently offering a Bachelor of Science major in anthropology. The Department of Sociology, Anthropology, and Criminology at the University of Northern Iowa also reviewed the proposal, though they do not offer a specific B.S. in Anthropology. The supportive responses from these units are enclosed.

c. *In what ways is this proposed program similar to those mentioned in 2a? In what ways is it different or does it have a different emphasis?*

The proposed requirements for the major in Anthropology leading to a Bachelor of Science major at The University of Iowa are more specifically focused on anthropological research than are those at Iowa State University. The total number of semester hours for the major (42 semester hours, plus a minor or equivalent hours) is greater than that required at ISU (39). The laboratory and directed research requirement is unique, and should serve to well prepare students for research careers.

d. *How does the proposed program supplement the current programs available?*

The proposed program institutes a curriculum for anthropology majors desiring a quantitative focus for their undergraduate major at The University of Iowa. Sequentially prerequisite courses in mathematics or statistics or quantitative reasoning, topical areas, and directed research combine to preserve curricular breadth and an opportunity for a sustained research experience. As a whole the B.S. then becomes an alternative valued credential for students with a science interest and a desire graduate work in the sciences.

- e. ***Has the possibility of some kind of interinstitutional program or other cooperative effort been explored? What are the results of this study?***

Interinstitutional programs have not been explored yet. The specifically anthropological focus of our proposed requirements does not warrant alignment with the general ISU program. There may be opportunities for interinstitutional cooperation in field work.

- f. ***Please list the Iowa institutions in which articulation agreements are being developed for the proposed program. (NOTE: This applies only to community college degree programs which may transfer students to this program).***

At this time, no specific articulation agreements are being developed with community college programs in Iowa. The general articulation agreements (that is, the AA equivalent to the General Education Program) are probably sufficient for most students' transfer needs.

- g. ***Please provide the Classification of Instructional Program (CIP) Code for the proposed program.***

Classification of Instructional Program (CIP) Code for the proposed program:
45.0201 Anthropology.

3. ***Please estimate the enrollment in this program for the next five years as follows:***

- a. ***Undergraduate***

<i>Majors</i>	<u>5</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>45-50</u>
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Nonmajors Not applicable; non-majors will be taking courses offered by the department of Anthropology, of course, but they will not be part of the new B.S. major.

- b. ***Graduate*** Not applicable, this is an undergraduate program.

- c. ***On what basis were these estimates made?***

Three lines of evidence were used to derive the estimate: (1) current strong enrollments in Biological and Medical Anthropology courses, (2) growing enrollments in laboratory courses and practicums, and (3) current participation in Honors Research.

c.1: With the arrival of Professor Franciscus and the presence of a second medical anthropologist (shared with the College of Public Health--Holly Wardlow 2000-2002, Erica Prussing, 2002-2004), and the continued curricular development by tenured faculty the Department of Anthropology has offered the following new courses in Biological and Medical Anthropology since 1998:

Ciochon course enrollments

113:170 Primate Evolutionary Biology
Fall 2002: 15

Prussing: Course enrollments

113:133/172:133 Anthropology of
Women's Health (capped at 20):
Fall 2002: 18
Fall 2003: 19
113:148 Psychological Anthropology:
Fall 2002: 7
113:148 Culture, Health & Healing
Spring 2003: 20
Summer 2003: 8
113:147 Health of Indigenous Peoples
Spring 2003: 12

Franciscus: Course enrollments

113:165 Human Variation
Spring 1999: 25
Spring 2000: 28
Fall 2001: 35
Fall 2003: 28
113:169 Human Evolutionary Anatomy
Spring 1999: 7
Fall 2000: 7
113:190 Human Osteology
Fall 1998: 16
Fall 1999: 26
Fall 2000: 20
Fall 2001: 22
Fall 2002: 23
Fall 2003: 18
113:197 Modern Human Origins
Fall 1999: 20
Fall 2002: 10

c.2. Since 1998, new courses have been added to existing courses that are structured as lab-based classes and practicums (e.g., 113: 169 Human Evolutionary Anatomy, 113:190 Human Osteology, 113:197 Modern Human Origins). Of these, the courses taught in frequent rotation with predominantly undergraduate enrollment (see Table 2) attract large numbers of students for which an Anthropology B.S. might be a desirable option.

Table 2. Students Enrolled in Anthropology Lab/Practicum Courses by Semester (1998-2003).

Year	113:176 113:195	113:162 113:383/4**	113:183	113:190		
FA 2003		10	3	8	17	
Su 2003				1		
SP 2003		10	2	9		
FA 2002		7	3	6	23	
SP 2002		5	4	4		
FA 2001	1	7	1	9	22	
Su 2001			1			
SP 2001	2	7		4		
FA 2000		3	3	4	22	1
Su 2000			2			
SP 2000	3	9	5	10		1
FA 1999		6	4	3	26	
Su 1999			2			1
SP 1999	1		1	8		
FA 1998		4			16	
SP 1998		6	2	3		
TOTAL	7	74	33	69	126	3
						312

113:176 Lab Based Honors

113:162 Lab Methods Archaeology

113:183 Independent Lab Study

113:190 Human Osteology

113:195 Lab Methods Biological Anthropology

113:383/4 Lab Research (Grad credit for undergraduate students)

- c.3:** Based on data compiled during our last departmental review, for years 1994-2000 (Table 1), the number of graduating undergraduate honors students range from 3-9 per year, with a total of 45 for the seven year period.

Table 1. Anthropology Honors Graduates (1994-2000).

Year	No. Anthropology Graduates	No. Honors Graduates	Percent Honors Graduates
2000	62	8	13
1999	54	3	5.5
1998	60	7	12
1997	59	7	12
1996	41	5	12
1995	46	6	13
1994	40	9	22.5
TOTAL	362	45	12.5

d. What are the anticipated sources of these students?

We anticipate that some students will be drawn to the Anthropology B.S. major option from other departments at the university (including, Biological Sciences, Geoscience, Psychology) who would like to combine their science focus with a particular interest in human biocultural variation. In addition, the B.S. major in Anthropology adds to the options current majors who wish to have a clear program in place and receive a formal credential for a scientifically oriented plan of study and research.

4. Please provide any available data or information on employment opportunities available to graduates of this program in Iowa and nationally.

The Bachelor of Science major in Anthropology will be an important career resource for students seeking civil service jobs that require quantitative skills, for private sector positions that seek graduates versed in both qualitative and quantitative analysis, and for public health and other professional programs that expect some level of scientific proficiency.

Standard government application forms request specific documentation of KSAs (knowledge, skills and abilities). Because academic work qualifies for this government application requirement, the University of Iowa graduate with a B.S. in Anthropology will be more competitive having demonstrated successful completion of mathematical prerequisite courses and more advanced analysis in independent research and laboratory work.

Likewise, Iowa students seeking employment in the private sector among financial services companies, the insurance industry, consumer products and marketing research firms will encounter employers who expect both good analytic and communicative skills demonstrated with the wide range of proficiencies for the requirements of a B.S.

Finally, meeting the requirements for a B.S. can position students for success in graduate programs such as Masters in Public Health, in which, for example, the University of Iowa program expects “prerequisite coursework [that] includes one semester each of college algebra and biology.” Likewise the Henry B. Tippie College of Business states “we consider the difficulty of the major completed” in their admissions process. Here again the B.S. with its additional prerequisites, minor, and independent research positions students for success. Students interested in pursuing doctoral majors with a specialization in forensic science, biological anthropology, and other related fields would enhance both their skills and chances for admission by obtaining a B.S. The major would also be an option to students preparing for a variety of advanced health science programs and careers.

5. Are there accreditation standards for this program?

No, there are no accreditation standards for B.S. programs in Anthropology.

6. Does the proposed program meet minimal national standards for the program, e.g., Council of Graduate Schools or other such bodies?

As above, there are no minimal national standards for B.S. programs in Anthropology.

7. Please report any reactions of the Iowa Coordinating Council for Post-High School Education. List date that the program information was submitted to the Council.

March 24, 2004

8. How does this program relate to the college’s/university’s strategic plan?

The addition of a new B.S. option within the major in Anthropology directly addresses the University’s mission, as described in the Strategic Plan, to “advance scholarly and creative endeavor through leading-edge research and artistic production.” The program also supports the College’s strategic planning goals, including those to “shape, strengthen, and develop our undergraduate and graduate curricula, making the best use of teaching resources and emerging technologies” and “develop students’ understanding of and appreciation for the processes of research, scholarship and artistic creation.”

Additional Resource Needs

Either question one or question two requires a “yes” answer. In addition to a “yes” response to one of the first two questions, question three and question four should be answered. If applicable, question five should be answered.

- 1. Will the program require new resources? Yes No**
If “yes,” what is the plan to obtain new resources?

The new resources requested consist of one filing cabinet and one .25 HTE research assistant. The department will request these resources from the College. If these new resources are not granted by the College, the department will reallocate from existing resources.

- 2. Will the program require reallocated resources? Yes No**
If “yes,” what is the university’s reallocation plan to fund this program?

If the needed resources cannot be granted by the College, the department will reallocate from the general expense budget (for the filing cabinet) and from the department’s current research assistant allocation for the research assistant.

- 3. At what level of enrollment will additional resources be required for the program?**

It is difficult to imagine a level of enrollment that will require additional resources; however, if the B.S. major were to attract more than 100 students from each entering cohort, some additional resources might be needed, or, more likely, the department would follow the current model of the Department of Psychology. In Psychology, students who wish to earn the B.S. rather than the B.A. must apply and must show potential through earning significantly higher grad-point-averages in departmental courses.

- 4. Estimate the total costs (or incremental increases in expenditures) that may be necessary as a result of the new program for the next three years.**

See the following page.

- 5. For programs planning to use external grants, what would be the effect of the grant termination?**

The program will not depend on external grants.

Estimated (incremental costs)

- a. **Faculty:** future new hires in anthropology, granted by the College of Liberal Arts and Sciences, will participate in the Bachelor of Science Program as appropriate — *Applies to First, Second, Third, and future years.* No new faculty lines are required to begin offering this program.
- b. **Graduate Assistants:** one quarter-time Research Assistant (.5 HTE) per semester to assist the Director of Undergraduate Studies in the implementation of the Program (approximately \$8500.00) — *First Year only.*
- c. **General Expense:** No additional funds will be needed, reallocations will be made from the department's current general expense budget
- d. **Equipment:** one new four-drawer filing cabinet (approximately \$289.00) — *First Year only.*
- e. **Library Resources:** No additional funds will be requested
- f. **New Space Needs (estimate amount of new and /or remodeled space):** No new space will be needed; there will be some reallocation of classroom and office space from the BA to the BS program.
- g. **Computer use:** No additional resources will be needed
- h. **Other Resources (please explain):** The Registrar's Office will be asked to do some minor programming in support of the new major and various publications will need to be revised, but these costs will be within the range of any year's ordinary requests.

	First Year	Second Year*	Third Year*
a. Faculty	No new faculty specifically for the B.S.	No new faculty specifically for the B.S.	No new faculty specifically for the B.S.
b. Graduate Assistants	\$8,500 for .25 HTE*	No additional TA funds for the B.S.	No additional TA funds for the B.S.
c. General Expense	Covered by current funds	Covered by current funds	Covered by current funds
d. Equipment	Approx. \$289.00 for a new filing cabinet	No expenses expected specifically for the B.S.	No expenses expected specifically for the B.S.
e. Library Resources	No additional resources needed	No additional resources needed specifically for the B.S.	No additional resources needed specifically for the B.S.
f. New Space Needs [estimated amt. & cost of new and/or remodeled space)	There may be reallocation, but no new space specifically for the B.S.	There may be reallocation, but no new space specifically for the B.S.	There may be reallocation, but no new space specifically for the B.S.
g. Computer use	No additional resources needed to be needed specifically for the B.S.	No additional resources expected to be needed specifically for the B.S.	No additional resources expected to be needed specifically for the B.S.
h. Other resources	The registrar will be asked for some new programming of degree evaluations and so on.	No new resources expected to be needed specifically for the B.S.	No new resources expected to be needed specifically for the B.S.
TOTAL(S)	Under \$9,000.00	---	---

*This sum can be obtained through re-allocation if necessary

6.09 Principles and Standards for Program Duplication

- A. The Board of Regents, State of Iowa, recognizes that program overlap or duplication cannot be evaluated in absolute terms. Some duplication is desirable, appropriate, and essential. Other duplication is inappropriate.
- B. Policy decisions concerning the appropriateness of new programs or the expansion of existing programs that appear to duplicate activities in other institutions shall be based on such considerations as the following:

- 1. **Does the institution have personnel, facilities, and equipment adequate to establish and maintain a high quality program or should the program be located in another institution where adequate resources are available?**

Yes, the College of Liberal Arts & Sciences does have all that is necessary for the B.S. program. As described in the proposal, new laboratories have been added to preexisting archaeological, biological anthropology, and linguistic laboratories to create a comprehensive set of facilities. No new faculty lines are required to offer this program (although future new hires in anthropology will participate in the B.S. program as appropriate). These existing resources will support this program and the proposal will help us to fully utilize our current resources.

- 2. **Does student demand for the proposed program justify its development or expansion?**

We believe (based on current enrollments in the courses that will become part of the new B.S. program) that student demand is clear. We have anecdotal evidence from current advisers who have had requests from students for a B.S. to complement other majors, and for programs that will prepare students for careers for which the B.S. is appropriate.

- 3. **Do adequate employment opportunities for graduates exist, and is it likely that they will continue to exist?**

We believe there will be employment opportunities, in criminology, public health, government, museums, and so on.

4. **In fields in which one university already offers a substantial program, but in which another university is proposing a new or expanded program, could the first institution reasonably accommodate the necessary expansion or would its resources and facilities be so taxed that such an expansion would reduce educational quality?**

The UI department of Anthropology is larger than the department at ISU. At UNI, Anthropology is part of the Sociology department; we would suggest that it is here that the “substantial program” is already in place and should be expanded.

5. **Would a comparable program development or expansion at the first university (see Point 4) require new capital construction producing a higher cost alternative to that proposal?**

Again, this question does not seem applicable to the current situation.

6. **Would the proposed program enhance other programs already in place at the university?**

Yes, we expect the new B.S. to enhance the other B.S. programs in the College of Liberal Arts and Science, from Geography and Geoscience to Biological Sciences. We also see benefits for the Certificate in Museum Studies, the American Indian and Native Studies Program, and a number of other student and faculty research programs.

7. **Is the proposed program consistent with the institutional mission statement?**

Yes, this is an appropriate addition to the University’s mission to, as described in the Strategic Plan, “advance scholarly and creative endeavor through leading-edge research and artistic production.”

8. **Do other colleges in Iowa offer programs similar to the one proposed and at comparable quality and cost?**

We believe the proposed program will provide students with more breadth and depth than any other anthropology program available in the state, and do so within the current resources available to the department, therefore at a lower cost than could be done elsewhere.