April 28, 2016

MEMORANDUM

TO: Gregory Ball
   Dean, College of Behavioral and Social Sciences

FROM: Elizabeth Beise
       Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Establish a Bachelor of Science in Anthropology with Modifications to the Existing Bachelor of Arts in Anthropology (PCC Log No. 15062)

At its meeting on April 1, 2016, the Senate Committee on Programs, Curricula and Courses approved the proposal to establish a Bachelor of Science in Anthropology with modifications to the existing Bachelor of Arts in Anthropology. A copy of the proposal is attached.

The change is effective Fall 2016. Please ensure that the change is fully described in the Undergraduate Catalog and in all relevant descriptive materials, including the undergraduate program’s four-year plan (contact Lisa Kiely at lkiely@umd.edu for more information).

MDC/
Enclosure

cc: Andrew Harris, Chair, Senate PCC Committee
    Barbara Gill, Office of Enrollment Management
    Reka Montfort, University Senate
    Chip Denman, Division of Information Technology
    Pam Phillips, Institutional Research, Planning & Assessment
    Anne Turkos, University Archives
    Linda Yokoi, Office of the Registrar
    Cynthia Stevens, Office of Undergraduate Studies
    Katherine Russell, College of Behavioral and Social Sciences
    Paul Shackel, Department of Anthropology
University of Maryland PCC
Program/Curriculum/Unit Proposal

Program:

Department/Unit: ANTHROPOLOGY

College/School: Behavioral and Social Sciences

Proposal Contact Person (with email): ERICK HANSON (chanson@umd.edu)

Type of Action (check one):

☒ Curriculum change (includes modifying minors, concentrations/specializations and creating informal specializations)
☐ Curriculum change is for an LEP Program
☐ Rename a program or formal Area of Concentration
☐ Establish/Discontinue a formal Area of Concentration
☐ Other:

☐ Establish a new academic degree/certificate program
☐ Create an online version of an existing program
☐ Establish a new minor
☐ Suspend/Discontinue a degree/certificate program
☐ Establish a new Master or Certificate of Professional Studies program
☐ New Professional Studies program will be administered by Office of Extended Studies

Italicics indicate that the proposal must be presented to the full University Senate for consideration.

Approval Signatures - Please print name, sign, and date. For proposals requiring multiple unit approvals, please use additional cover sheet(s).

1. Department Committee Chair

2. Department Chair

3. College/School PCC Chair

4. Dean

5. Dean of the Graduate School (if required)

6. Chair, Senate PCC

7. University Senate Chair (if required)

8. Senior Vice President and Provost

Instructions:
When approved by the dean of the college or school, please send the proposal and signed form to the Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus-5031, and email the proposal document as an MSWord attachment to pcc-submissions@umd.edu.

Summary of Proposed Action (use additional sheet if necessary):

NEW BACHELOR OF SCIENCE IN ANTHROPOLOGY IS PROPOSED WITH RELATED MODIFICATIONS TO THE EXISTING BACHELOR OF ARTS DEGREE.

Unit Code(s) (to be entered by the Office of Academic Planning and Programs):

(1) 012028001280501
BSOS-Anthropology
Proposal for a new Bachelor of Science in Anthropology with modifications to the existing Bachelor of Arts in Anthropology

Approved by the Anthropology Faculty December 16, 2015

Rationale

The Fall of 2015 the Department of Anthropology, led by the department’s Undergraduate Committee, began working on the structure of a Bachelor of Science degree in Anthropology.

The major impetus for creating a BS degree was the result of the department’s external review. In the spring of 2015, the external reviewer committee recommended that the department develop a BS that would offer students the ability to focus on sub-field specializations that are the strength of the department, such as (1) global health and medical anthropology, and (2) environmental and ecological anthropology, and (3) archaeology. The new degree will offer a pathway to specialization for anthropology majors interested in the confluence of the hard and material sciences and social and cultural anthropology to understand changes and continuities of cultural and the human condition over time and space as a result of environmental and ecological shifts and downturns, disease, and conflict. This resonates particularly with anthropology majors interested in increasingly interdisciplinary approaches in an already very interdisciplinary department.

The new degree will serve to complement the existing BA program. The BS degree offers unique training in the relevance and important role of anthropology in study all aspects of the natural and material world. Student input matched that of the external reviewers and many desired a degree that blends relevant social and cultural theory and methods with quantitative science skills to prepare them for professions in various health, environmental, ecological, and material-based professions. In short, the BS program will provide the setting to better train students how to apply and exemplify the relevance of anthropological knowledge in many social, cultural, and technical professional settings.

Two modifications will be made to the BA degree to allow it to match up with the proposed BS degree: (1) A 4th focus area of Medical Anthropology and Global Health will be added and (2) any Anthropology course that satisfies the University’s Scholarship-in-Practice requirement will also satisfy the Department’s Applied Field Methods requirement.

Bachelor of Science Degree in Anthropology

The Bachelor of Science degree in Anthropology blends a broad education in anthropology with a solid grounding in the physical and life sciences. The degree features foundational work focusing on Department of Anthropology’s strengths—archaeology, ecological/environmental anthropology, sociocultural anthropology, and medical anthropology—and provides concrete training in quantitative methods and laboratory settings. Foundational math and science courses outside of the Anthropology Department serve to enhance the toolbox of knowledge and skills upon which students can draw to advance their learning in Anthropology, prepare for graduate
school in related disciplines, prepare for professional school in allied health fields, and develop marketable job skills.

The Bachelor of Science degree in the Department of Anthropology provides students with scientific training to understand how and why humans evolved, and how our social and cultural trajectories shape what it is to be human in past, present and future environments. An anthropological perspective can be an asset to those entering professions in social services, technological fields, public relations and communications, medicine, and a variety of supervisory positions in various sectors of the economy. Anthropology's focus on comprehensive breadth is especially valuable to individuals seeking careers in corporate America in realms of strategic planning, decision-making, and program management. Anthropology is now also beginning to be introduced into secondary and elementary school curricula with emphasis on the archaeological, environmental, and cultural dimensions of the discipline. Anthropology's scope and intellectual range can prepare students to make objective, innovative decisions at the professional level in any career field.

**Proposed Changes to both the BA and the BS**

1.) Add a 4th focus area to both the BA and BS: Medical Anthropology and Global Health. To do this two new courses would be added:

ANTH210: Introduction to Medical Anthropology and Global Health

ANTH310: Method & Theory in Medical Anthropology and Global Health. (This course already exists as ANTH465 which satisfies DSIP & DVUP. It will merely be renumbered. However, students will NOT be able to double-count this class towards BOTH the departmental Method & Theory requirement AND the departmental Applied Field Methods requirement.)

A new hire to begin for Fall 2016 will help us add these courses to our curriculum.

As BA-seeking students will still only be required to take 9-10 credits of Foundation courses and 6 credits of Method & Theory courses, this will not increase the overall credits required for the BA.

2.) Any Anthropology course that satisfies the University’s Scholarship-in-Practice requirement would also satisfy the Department’s Applied Field Methods requirement. The learning outcomes of these two requirements closely match up. Allowing all Anthropology Scholarship-in-Practice courses to count as Applied Field Methods will increase the course offerings in this category and simplify tracking courses offered and progress to degree.

**Proposed changes for the BS**

1.) Quantitative Skills: In both the new and old BA, only a single quantitative course was required (MATH11 or higher or a social science statistics class). With the BS, two quantitative course will be required.

2.) Supporting courses: In the BA, 18 credits from any area can be applied to the degree. In the BS, supporting sequence classes can only be drawn from a prescribed list of science courses.

3.) Areas of concentration: With the BS, students will be offered areas of concentration that will allow them to focus their coursework.
Students moving between degrees, areas of concentration

Upon entering Anthropology, students will elect to pursue and BS or BA. They may change between the BS or BA similar to changing majors. Areas of concentration will be published and listed on Degree Navigator, but only BS (or BA) in Anthropology will be published on diplomas. Students can move between areas of concentration with permission of the Anthropology Undergraduate Director. Students may propose new areas of concentration to the Undergraduate Director.

New courses for the revised BA/new BS

A new course, ANTH210: Introduction to Medical Anthropology and Global Health will developed. It will be submitted for the DSHS & DVUP GenEd requirements.

CURRICULUM

Shaded courses represent new requirements

Each course must be passed with a grade of a “C-“ or better to count towards any major requirement and must have a minimum 2.0 cumulative grade point average across all courses used to satisfy major requirements. A course used to fulfill one major requirement cannot be used towards other major requirements.

CURRENT BA Degree in Anthropology, current (52 credits, 31 in dept.)

All courses are 3 credits unless otherwise indicated

Foundational Courses in Anthropology (10 credits)
ANTH220 or 222: Introduction to Ecological and Evolutionary Anthropology (4)
ANTH 240: Introduction to Archaeology
ANTH 260: Introduction to Sociocultural Anthropology

Method and Theory (2 out of 3, 6 credits)
ANTH 322: Method and Theory in Ecological Anthropology
ANTH 340: Methods and Theory in Archaeology
ANTH 360: Methods and Theory in Sociocultural Anthropology

Anthropology Electives (12 credits)
12 credits of any ANTH course not counted toward another category
6 of the 12 must be 300 and above

Applied Field Methods (3 credits)
ANTH386: Experiential Learning Internship (3-6 cr.)
ANTH468O: Researching Environment and Culture
ANTH491: Anthropology of the Immigrant Life (4)
ANTH492: Applied Urban Ethnography
ANTH493: Anthropological Fieldwork in Argentina
ANTH495: Advanced Field Training in Brazil (6)
ANTH496: Field Methods in Archaeology (6)
Other relevant courses may be used with the Undergraduate Director's approval.

**Quantitative Skills Requirement (1 course – 3 credits)**
- MATH111: Introduction to Probability (or higher level MATH class)
- STAT 100: Elementary Statistics and Probability
- BIOM301: Introduction to Biometrics
- ECON201: Principles of Macroeconomics
- ECON321: Economic Statistics
- EDMS451: Educational Statistics
- GEOG306: Intro to Quant Methods for the Geographic Enviro Sciences
- PSYC200: Statistical Methods in Psychology
- SOCY 201: Introductory Statistics for Sociology

**Supporting Coursework (18 credits)**
**PROPOSED REVISED BA Degree in Anthropology, current (51-52 credits, 30-31 in dept.)**

*All courses are 3 credits unless otherwise indicated*

### Foundational Courses in Anthropology (3 courses, 9-10 credits)

- **ANTH210**: Introduction to Medical Anthropology and Global Health
- ANTH220 or ANTH 222: Introduction to Ecological and Evolutionary Anthropology (4)
- ANTH 240: Introduction to Archaeology
- ANTH 260: Introduction to Sociocultural Anthropology

### Method and Theory (2 out of 4, 6 credits)

- ANTH 310 Method and Theory in Medical Anthropology
- ANTH 322: Method and Theory in Ecological Anthropology
- ANTH 340: Methods and Theory in Archaeology
- ANTH 360: Methods and Theory in Sociocultural Anthropology

### Anthropology Electives (12 credits)

- 12 credits of any ANTH course not counted toward another category
- 6 of the 12 must be 300 and above

### Applied Field Methods (3 credits)

- ANTH386: Experiential Learning Internship (3-6 cr.)
- ANTH468O: Researching Environment and Culture
- ANTH491: Anthropology of the Immigrant Life (4)
- ANTH492: Applied Urban Ethnography
- ANTH493: Anthropological Fieldwork in Argentina
- ANTH495: Advanced Field Training in Brazil (6)
- ANTH496: Field Methods in Archaeology (6)

*OR any ANTH Scholarship-in-Practice course*

### Skills Requirement (1 course – 3 credits)

- MATH111: Introduction to Probability (or higher level MATH class)
- STAT 100: Elementary Statistics and Probability
- BIOM301: Introduction to Biometrics
- ECON201: Principles of Macroeconomics
- ECON321: Economic Statistics
- EDMS451: Educational Statistics
- GEOG306: Intro to Quant Methods for the Geographic Enviro Sciences
- PSYC200: Statistical Methods in Psychology
- SOCY 201: Introductory Statistics for Sociology

### Supporting Coursework (18 credits)

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5

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PROPOSED BS Degree in Anthropology (47-48 credits, 30-31 in dept.)
All courses are 3 credits unless otherwise indicated

Foundation Courses (3 courses - 10 credits)
- ANTH210: Introduction to Medical Anthropology and Global Health
- ANTH220 - OR - ANTH222: Introduction to Ecological and Evolutionary Anthropology (4)
- ANTH240: Introduction to Archaeology
- ANTH260: Introduction to Socio-cultural Anthropology

Methods and Theory Courses (2 courses - 6 credits)
- ANTH 310: Method and Theory in Medical Anthropology
- ANTH322: Method & Theory in Ecological Anthropology
- ANTH340: Method & Theory in Archaeology
- ANTH360: Method and Theory in Socio-Cultural Anthropology

Anthropology Electives Courses (12 credits)
12 credits of any ANTH course not counted toward another category
6 of the 12 must be 300 and above

Applied Field Methods Course (at least 3 credits)
- ANTH386: Experiential Learning Internship (3-6 cr.)
- ANTH468O: Researching Environment and Culture
- ANTH491: Anthropology of the Immigrant Life Course (4)
- ANTH492: Applied Urban Ethnography
- ANTH493: Anthropological Fieldwork in Argentina
- ANTH495: Advanced Field Training in Brazil (6)
- ANTH496: Field Methods in Archaeology (6)
OR any ANTH Scholarship-in-Practice course

Quantitative Skills Course (2 courses - 7-8 credits)
- MATH140: Calculus I (4)
- MATH141: Calculus II (4)
- MATH220: Elementary Calculus I (4)
- MATH221: Elementary Calculus II (4)
- STAT100: Elementary Statistics and Probability or MATH 111: Introduction to Probability

Specialization Science Electives (3 courses - 9 credits minimum)
Students are responsible for meeting all prerequisites
Courses not listed must be approved by Undergraduate Director
Suggested courses include but not limited to:

Agriculture and Natural Resources
AGNR301 Sustainability

Agriculture and Resource Economics
AREC241 Environment, Economics and Policy (4 cr.)

*AREC326 Intermediate Applied Microeconomics
AREC345 Global Poverty and Economic Development
AREC365 World Hunger, Population and Food Supplies
*AREC433 Food and Agricultural Policy
*AREC453 Natural Resources and Public Policy

Atmospheric and Oceanic Science
AOSC 123 Causes and Implications of Global Change

Biology
BSCI103: World of Biology
BSCI105 Principles of Biology I (4 cr.)
BSCI106 Principles of Biology II (4 cr.)
BSCI135 Plants that Transformed the World (4 cr.)
BSCI189 Beyond Race: Human Biological Diversity (4 cr.)
*BSCI222 Principles of Genetics (4 cr.)
*BSCI338Q Conservation Laboratory (1 cr.)
*BSCI360 Principles of Animal Behavior
*BSCI361 Principles of Ecology (4 cr.)
*BSCI363 Biology of Conservation and Extinction
*BSCI370 Principles of Evolution
*BSCI462 Population Ecology
*BSCI471 Molecular Evolution

Computer Science
CMSC 131 Object-Oriented Programming I (4 cr.)
CMSC 132 Object-Oriented Programming II (4 cr.)

Environmental Science and Technology
ENST233 Introduction to Environmental Health
ENST440 Crops, Soils, and Civilizations

Geology
GEOL100/110: Physical Geology and Laboratory (4 cr.)
*GEOL 340: Geomorphology
*GEOL 342: Stratigraphy and Sedimentation
*GEOL 446: Geophysics

Geography
GEOG 330 Society and Sustainability
GEOG 332 Economic Geography
GEOG 372: Remote Sensing
GEOG 373: Geographic Information System
*GEOG 416 Conceptualizing and Modeling Human Environment Interactions
GEOG 431 Culture and Natural Resource Management
*GEOG 472: Remote Sensing: Digital Processing and Analysis
*GEOG 473: Geographic Information System and Spatial Analysis

Maryland Institute for Applied Environmental Health
*MIEH300 Introduction to Environmental Health
MIEH321 Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases

Public Health
HLTH130: Introduction to Public and Community Health
HLTH200: Introduction to Research in Community Health
*HLTH300: Biostatistics for Public Health Practice

History
HIST 204: History of Science
*prerequisites apply
APPENDIX A: ANTH BS with pre-med requirements

Below is a path through the major for a pre-med student concentrating in Medical Anthropology. This was selected as the most difficult case. Students in another concentration or students who are not pre-med will have a much easier time getting through the BS degree.

### Fall 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL101: Academic Writing (FSAW)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH210*: Introduction to Medical Anthropology (DSHS, DVUP)</td>
<td>3</td>
</tr>
<tr>
<td>MATH140: Calculus I (FSAR, FSMA, appropriate Math placement needed)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM131/2: Chemistry I (DSNL)</td>
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<td>UNIV100</td>
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### Spring 1

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ANTH222: Introduction to Ecological Anthropology (DSNL, DVUP)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM231/2: Organic Chemistry I (prereq: CHEM131)</td>
<td>4</td>
</tr>
<tr>
<td>MATH141: Calculus II (prereq MATH140)</td>
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<tr>
<td>(DSHU, SCIS)</td>
<td>3</td>
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### Fall 2

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<th>Course</th>
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<tr>
<td>ANTH260: Introduction to Cultural Anthropology (DSHS, DVUP)</td>
<td>3</td>
</tr>
<tr>
<td>BSCI105: Principles of Biology I (DSNL, MATH140 eligibility)</td>
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</tr>
<tr>
<td>PHYS121: Fundamentals of Physics I (DSNL)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM241/242: Organic Chemistry II (Prereq: CHEM231/2)</td>
<td>4</td>
</tr>
<tr>
<td>COMM107: Oral Communication (FSOC)</td>
<td>3</td>
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### Spring 2

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PHYS122: Fundamental of Physics II (DSNL, prereq: PHYS121)</td>
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</tr>
<tr>
<td>BSCI222: Principles of Genetics (Prerequisite: CHEM131, CHEM132, BSCI106, and BSCI105. Or BSCI105; and must have completed two semesters of chemistry.)</td>
<td>4</td>
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<tr>
<td>CHEM271/2: General Chemistry and Energetics (prereq: CHEM241/2)</td>
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### Fall 3

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<tr>
<td>BSCI330: Cell Biology and Physiology (Prereq: Minimum grade of C- in CHEM131, CHEM132, and BSCI105.)</td>
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<tr>
<td>ANTH310*: Method &amp; Theory in Medical Anthropology (prereq: ANTH210)</td>
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<tr>
<td>ENGL391: Advanced Composition (FSPW)</td>
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<tr>
<td>ANTH410: Global Health, Society &amp; Culture (DSSP outside ANTH)</td>
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### Spring 3

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<tr>
<td>BCHM463: Biochemistry of Physiology (prereq: CHEM271/2)</td>
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<tr>
<td>ANTH360: Method &amp; Theory in Cultural Anthropology (prereq: ANTH260)</td>
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</tr>
<tr>
<td>ANTH265: Anthropology of Global Health (DSHS, DVUP, SCIS)</td>
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</tr>
<tr>
<td>ANTH472: Medical Anthropology (DSSP)</td>
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<td>(DSHU)</td>
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### Fall 4

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<td>ANTH491: Anth of the Immigrant Life (DSSP)</td>
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<tr>
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<td>Elective</td>
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### Spring 4

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<tr>
<td>ANTH463: Health Disparities in the U.S.</td>
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<tr>
<td>Elective</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

*ANTH210: To be developed
* ANTH310, renumbered from ANTH465
* ANTH410, renumbered from ANTH468V

Total Credits 120

pre-med prereqs (italicized)
Hi All,
This course (AGNR301) is actually cross-listed with PUAF301 as part of the Sustainability Minor. It is not offered separately as an ENSP course. The course is currently waitlisted for Spring but had open seats this fall semester. You are welcome to include this course as requested as far as I'm concerned but we cannot guarantee seats will always be open as I believe is understood from the original request.

Joe'

Dr. Joe H. Sullivan
Professor, Department of Plant Science and Landscape Architecture Interim Director, Environmental Science and Policy Program (ENSP) University of Maryland College Park, MD 20742
301-405-1626 (Plant Science)
301-405-8573 (ENSP)
301-314-9308 (FAX)
jsull@umd.edu

Hi all,

Let me check with Nina Harris, who is my counterpart in PUAF, since the course is actually jointly offered. I'll get back to you early next week.

Wendy

Wendy L. Whittemore, Ph.D.
Associate Director
0216 Symons Hall
University of Maryland
College Park, MD 20742

Web: www.ensp.umd.edu<http://www.ensp.umd.edu>
Ph: (301)405-8571

From: Evelyn E. Cooper
Sent: Friday, December 04, 2015 11:30 AM
To: Erik Hanson <ehanson@umd.edu>; Joseph H. Sullivan <jsull@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>; Wendy L. Whittemore <wwhitte@umd.edu>
Subject: RE: AGNR course for ANTH BS?
Hello Erik,

AGNR301 is also offered by the Environmental Science and Policy Program. I’m forwarding your request to the Director of ENSP Dr. Joe Sullivan.

Best,

Evelyn

From: Erik Hanson
Sent: Friday, December 04, 2015 8:49 AM
To: Evelyn E. Cooper <ecooper@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: AGNR course for ANTH BS?

Dear AGNR Chair Evelyn Cooper,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. One of the courses we would like to list as a science elective is AGNR301: Sustainability. Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in the class, perhaps as many as 5 as the BS develops. We don’t ask for any special access for Anthropology BS students. We are only asking to list AGNR301 as some of the 40+ possible science electives.

Is it okay with AGNR that we list AGNR301 as one of our science electives for our Bachelor of Science degree? Should we know anything about this course’s availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Yes. It is fine with GEOL.

Rich

Erik,
AOSC123 is a joint course with Geology when taught in spring. Its fine with aosc. Rich, is this ok with geol?  Jim

---

James Carton
Professor and Chair, Dept. Atmos. Ocean Sci.
University of Maryland
College Park, MD 20742
301-405-5365, www.atmos.umd.edu/~carton

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Dear AOSC Chair James Carton,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. One of the courses we would like to list as a science elective is AOSC123: Causes and Implications of Climate Change. Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in the class, perhaps as many as 5 as the BS develops. We don’t ask for any special access for Anthropology BS students. We are only asking to list AOSC123 as some of the 40+ possible science electives.

Is it okay with AOSC that we list AOSC123 as one of our science electives for our Bachelor of Science degree? Should we know anything about this course’s availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Hi: Your request for support from AREC to include AREC courses in the ANTH BS curriculum has been forwarded to me for reply. Your proposed plan was to include:

AREC 241
AREC 306
AREC 326
AREC 345
AREC 365
AREC 433
AREC 453

We are happy to support inclusion of all of these courses, except AREC 306.

AREC 306 is perpetually full to capacity and with long waitlists. In addition to AREC student demand, it is included in curricula of some other programs in the college of AGNR. Therefore we are unable to support inclusion of AREC 306 in the ANTH BS curriculum.

We look forward to seeing ANTH students in the other listed classes.

I have run this by the department chair, Prof. James Hanson, and I am cc:ing him (and our departmental administrator Liesl Koch) with this reply.

Howard D. Leathers
Associate Professor and Undergraduate Coordinator
Department of Agricultural and Resource Economics
University of Maryland College Park
2200 Symons Hall, UMCP
College Park, MD 20742-5535

301 405 1277
hleathers@arec.umd.edu
I was wondering about the MATH requirements – what will the major require?

I would suggest removing BSCI474 – because of its math requirements and because it is really not currently being offered.

With regard to Joelles comments about course levels, these courses are at very different levels. I don’t think it would be desirable as an outcome for students to take, for example, ONLY BSCI 103, 189i and 135 – this would really be a low pass through the requirements, as all courses are introductory non majors courses. However, there presence on the list allows this to be a possibility. I am not sure how many credits you will require from this list. One way to address this is to say that at least 1 course/xxx credits from this list must be in a course 2xx level or above. That would help to ensure that some of the students take the more rigorous 1xx prereqs for these courses.

In reality, most of the seats in 103, 189i and 135 are held for freshmen in summer orientation, and few non-freshmen (30% at most) gain entry to these courses. That might argue for NOT including them on the list. However, since this major might likely be a “discovery” major that students find after their freshmen year, students who had already taken these courses for gen ed would be able to take advantage of applying these credits already completed toward their new major.

Please consider these issues further in dialog with Joelle.

Thanks,

Robert L. Infantino, Ph.D.
Associate Dean
College of Computer, Mathematical, and Natural Sciences
2300 Symons Hall
University of Maryland College Park, MD 20742-5511
Phone: (301) 405-6892 FAX: (301) 314-9949
email: rinfanti@umd.edu
http://biology.umd.edu/faculty/robertinfantino

I would like to work out some more clear language about what students are told. I want to be sure that students understand the relative level of these courses, the need for the courses in their major, and which courses are geared toward majors vs non-majors. Also, I want to be sure students understand that there is no promise of a seat in these courses. Some are generally available, others are saved for incoming freshmen and accumulate long
wait lists. One final point of clarity is that many of these courses are highly quantitative and would be open only to students who are ready to or have taken calculus. I want more clarity on how all this would be communicated to students before we agree.

--

Joelle Presson, Ph.D.
Assistant Dean
Undergraduate Academic Programs
College of Computer, Mathematical, & Natural Sciences
University of Maryland
1322 Symons Hall
College Park, MD 20742
301-405-6892

From: Erik Hanson <ehanson@umd.edu>
Date: Tuesday, December 8, 2015 at 11:47 AM
To: Joelle Presson <jpresson@umd.edu>, Bob Infantio <rinfanti@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: RE: BSCI courses for ANTH BS?

Joelle Presson,

We will look to have more complete descriptions and may get back to you with more questions. But for now, can I take your note as saying that you are okay with us listing these BSCI courses as supporting science requirements for our BS degree?

Please let me know, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436

From: Joelle C. Presson
Sent: Friday, December 04, 2015 1:22 PM
To: Robert L. Infantino Jr <rinfanti@umd.edu>; Erik Hanson <ehanson@umd.edu>
Subject: Re: BSCI courses for ANTH BS?

This is an interesting list. I like that you have many electives. Some students whose major requires more science resent having to take the course and thus alter the atmosphere and enthusiasm in the class room. Having choices should help that. I would suggest that you have somewhat more complete descriptions of these courses for the students so they can choose.

Also, some of these are higher level science major courses that have a very high expectation- and sometimes low exam averages for non-science students. Other courses on your list are non-majors courses with a very different expectation and atmosphere.

I would be happy to talk with you about all this if you wish.

--
From: Bob Infantio <rinfanti@umd.edu>
Date: Friday, December 4, 2015 at 1:10 PM
To: Erik Hanson <ehanson@umd.edu>
Cc: Joelle Presson <jpresson@umd.edu>
Subject: RE: BSCI courses for ANTH BS?

Erik – I am copying Assistant Dean Presson, and will ask her to review and provide input about your request.
Thanks,Bob

Robert L. Infantino, Ph.D.
Associate Dean
College of Computer, Mathematical, and Natural Sciences
2300 Symons Hall
University of Maryland College Park, MD 20742-5511
Phone: (301) 405-6892 FAX: (301) 314-9949
e-mail: rinfanti@umd.edu
http://biology.umd.edu/faculty/robertinfantino

From: Erik Hanson
Sent: Friday, December 4, 2015 1:08 PM
To: Robert L. Infantino Jr <rinfanti@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: BSCI courses for ANTH BS?

Dear Biological Sciences Director Robert Infantino,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

BSCI103: World of Biology
BSCI105 Principles of Biology I (4 cr.)
BSCI106 Principles of Biology II (4 cr.)
BSCI135 Plants that Transformed the World (4 cr.)
BSCI189 Beyond Race: Human Biological Diversity (4 cr.)
*BSCI222 Principles of Genetics (4 cr.)
*BSCI338Q Conservation Laboratory (1 cr.)
*BSCI360 Principles of Animal Behavior
*BSCI361 Principles of Ecology (4 cr.)
*BSCI363 Biology of Conservation and Extinction
*BSCI370 Principles of Evolution
*BSCI462 Population Ecology
*BSCI471 Molecular Evolution
*BSCI474 Mathematical Biology (4 cr.)
*prerequisites apply

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 20 in the 100-level classes as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these BSCI courses as some of the 40+ possible science electives in our proposal.

Is it okay with BSCI that we list these BSCI courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Mr. Hanson,

Prof. Khuller has asked me to respond to your message.

We do not see any problem with Anthropology listing CMSC131 and CMSC132 as science electives for you BS degree. The small number of students you expect to take the courses would not impact our (very large) current enrollments.

As you note, we cannot give your students any special access to the classes. We have not been able to accommodate all the students who want to take CMSC131 the last couple of semesters due to huge increases in the demand, but we are doing our best to improve that situation. We are offering over 700 seats in that class this semester, and will offer over 550 in spring semester, so we hope that will satisfy most (if not all) of the demand from students. So far we have been able to offer seats in CMSC132 to all students who request it, but we cannot guarantee that will continue.

Alan Sussman
Professor and Associate Chair for Undergraduate Education Computer Science Department

>> *From: *Erik Hanson <ehanson@umd.edu <mailto:ehanson@umd.edu>>
>> *Subject: **CMSC courses for ANTH BS? *
>> *Date: *December 4, 2015 at 10:39:38 AM PST
>> *To: *Samir Khuller <samirk@umd.edu <mailto:samirk@umd.edu>>
>> *Cc: *Stephen Anthony Brighton <sbrighto@umd.edu
>> <mailto:sbrighto@umd.edu>>
>>
>> Dear Computer Science Chair Samir Khuller, The Anthropology
>> department is in the process of developing a Bachelor of Science (BS)
>> degree. Nine credits of this degree would be drawn from science
>> electives outside of Anthropology that will help students build a
>> strong skills helpful in the areas of ecological anthropology,
>> medical anthropology or archaeology. Some of the courses we would
>> like to list as a science elective are:
>> CMSC 131 Object-Oriented Programming I (4 cr.) CMSC 132
>> Object-Oriented Programming II (4 cr.)
>>
>> Initially we imagine that this would mean 1-2 additional Anthropology
>> BS students per year in each class, perhaps as many as 10 as the BS
>> develops. We don’t ask for any special access for Anthropology BS
>> students and they’d be responsible for meeting any prerequisites. We
>> are only asking to list these CMSC courses as some of the 40+
>> possible science electives in our proposal.
>> Is it okay with CMSC that we list these CMSC courses as some of our
science electives for our Bachelor of Science degree? Should we know anything about these courses' availability heading forward? Please let me know if you have any questions, ERIK Erik Hanson Undergraduate Advisor Anthropology Department 1111 Woods Hall College Park, MD 20742 (301) 405-1436
Hi Erik

This is excellent news. Anthro is a cornerstone of what we cover in ENST 440 Crops, Soils and Civilization.

Agree fully with closer dept ties. We'd like to have Jen Schaefer give an ENST seminar sometime on her fire ecology studies.

Thanks

Ed

Edward R. Landa
Adjunct Professor
Department of Environmental Science and Technology
H.J. Patterson Hall
University of Maryland
College Park, MD 20742
USA

office ph: 301-405-9423
office room number: 0111 H. J. Patterson Hall
cell ph: 703-220-6935
e-mail: erlanda@umd.edu
https://enst.umd.edu/people/faculty/edward-landa

From: William W Bowerman
Sent: Friday, December 04, 2015 4:04 PM
To: Erik Hanson
Cc: Stephen Anthony Brighton; Lance T. Yonkos; Shannon Pederson Browne; Andrew H. Baldwin; Jen Shaffer; Edward R. Landa
Subject: Re: ENST courses for ANTH BS?

Hi Eric,

We are quite happy to work with you on your new and exciting major. There may be issues with ENST233 for availability of spaces since it is a required course for us. I have Lance Yonkos on this email to respond. Also, Ed Landa has taken on teaching the ENST440 course which Bruce James taught until his retirement in May. They will both weigh in on this request and then I can send along a letter of support or email, depending on your needs.

Again, we are happy to work with you and we really need to do a meet and greet or happy hour over at Mulligans between our two faculties......

Thanks,
Bill

William W. Bowerman, Ph.D.
Professor and Chair

University of Maryland
From: Erik Hanson <ehanson@umd.edu>
Date: Friday, December 4, 2015 at 3:56 PM
To: "William W. Bowerman" <wbowerma@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: ENST courses for ANTH BS?

Dear ENST Chair William Bowerman,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

- ENST233 Introduction to Environmental Health
- ENST440 Crops, Soils, and Civilizations

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 5 per year as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these ENST courses as some of the 40+ possible science electives in our proposal.

Is it okay with ENST that we list these ENST courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Dear All,

We finally had a chance to discuss this as a group, including the new GIS faculty for our GIS Center. It is consistent with the goals of our Center to try and meet campus demand for GIS. Although in the short term we might be a bit pressed, we would be happy to support the use of our courses for your new major, which sounds quite exciting. Please let us know if we can be of any other help in the planning process.

Best,
Ralph

Ralph Dubayah
Professor and Associate Chair
NASA GEDI Principal Investigator
NASA ISRO SAR (NISAR) Science Definition Team Co-Lead
Department of Geographical Sciences
1149 Lefrak Hall, University of Maryland, College Park, MD 20742
301-458-0128 (google voice)
301-405-4069 (office)
301-286-0322 (NASA GSFC)

On Feb 16, 2016, at 12:38 PM, Ronald W. Luna <ronaldl@umd.edu> wrote:

Hi all,

Sorry for the delay as well. I agree we can't accommodate anymore request for our technical courses. Our GIS majors continue to increase and our waitlist for our technical is at an all-time high. We are offering more GIS courses and more seats and we still can keep up with the demand from within. For that reason we are can't support the use of our course for the new anthropology major.

best,
Ronald

On 12/17/2015 2:39 PM, Chris Justice wrote:

Erik apologies for the delay
We have concerns with a number of these classes you listed in terms of current capacity and need to discuss internally, as we are making changes to our program – some of our classes are already oversubscribed and adding 5-10 to those could be a problem for the students. We are in the process of expanding our GIS offerings with new faculty (with BSOS support) so that should be OK in the future but need to be careful that we don’t create obstacles for students in the interim. The UG Director that usually addresses these issues is out of the office until Jan 4th and the Assoc Chair who oversees academic program issues is at a larger conference in California back next week - Not sure if we can make a definitive statement before the holidays. If you want to submit and we can discuss/decide after the fact with the understanding that the answer for some GEOG classes could be no – then go ahead.

Chris

---

From: Erik Hanson <ehanson@umd.edu>
Date: Thursday, December 17, 2015 at 10:55 AM
To: Chris Justice <cjustice@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: RE: GEOG courses for ANTH BS degree?

Chris Justice,

Please let us know if you are okay with us listing the courses below in our BS degree proposal. We would like to send the proposal off before the holiday break.

Or let us know if you have any questions.

Best, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436

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From: Erik Hanson
Sent: Friday, December 04, 2015 4:32 PM
To: Chris Justice <cjustice@umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: GEOG courses for ANTH BS?
Dear Geographical Sciences Chair Chris Justice,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

GEOG 330 Society and Sustainability
GEOG 332 Economic Geography
GEOG 372: Remote Sensing
GEOG 373: Geographic Information System
*GEOG 416 Conceptualizing and Modeling Human Environment Interactions
GEOG 431 Culture and Natural Resource Management
*GEOG 472: Remote Sensing: Digital Processing and Analysis
*GEOG 473: Geographic Information System and Spatial Analysis
*prerequisites apply

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 5-10 as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these courses as some of the 40+ possible science electives in our proposal.

Is it okay with Geographical Sciences that we list these GEOG courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Hi Erik,

Our only concern would only be in possible over enrollment requiring additional sections. I passed this past our undergraduate director who then asked the persons teaching the courses. Over enrollment does not appear to be a problem for any of these courses, so consider this a positive response.

Best Wishes,

Rich

Dear Geology Chair Richard Walker,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

- GEOL100/110: Physical Geology and Laboratory (4 cr.)
- GEOL 340: Geomorphology
- GEOL 342: Stratigraphy and Sedimentation
- GEOL 446: Geophysics

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 5 as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these courses as some of the 40+ possible science electives in our proposal.

Is it okay with Geology that we list these GEOL courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Absolutely, Erik.

Sent from my iPhone

On Dec 4, 2015, at 5:14 PM, Erik Hanson <ehanson@umd.edu> wrote:

Dear History Chair Philip Soergel,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. One of the courses we would like to list as a science elective is HIST206: History of Science. Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in the class, perhaps as many as 5 as the BS develops. We don’t ask for any special access for Anthropology BS students. We are only asking to list HIST204 as some of the 40+ possible science electives.

Is it okay with History that we list HIST204 as one of our science electives for our Bachelor of Science degree? Should we know anything about this course’s availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Elbert Glover,

Please let us know if HLTH is okay with us listing the below courses in our BS degree proposal. Or please let us know if you have any questions. We’d like to get the proposal sent off before the break.

Thanks, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436

Dear HTLH Chair Elbert Glover,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

- HLTH130: Introduction to Public and Community Health
- HLTH200: Introduction to Research in Community Health
- *HLTH300: Biostatistics for Public Health Practice
  *prerequisites apply

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 10 per year as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these courses as some of the 40+ possible science electives in our proposal.

Is it okay with Public Health that we list these HLTH courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Dear Erik Hanson,

Math will be able to provide seats for the BS Anthropology majors. We support the proposal.

Best,
Scott Wolpert

From: Erik Hanson [mailto:ehanson@umd.edu]
Sent: Tuesday, December 8, 2015 4:49 PM
To: Scott Wolpert <saw@math.umd.edu>
Cc: Stephen Anthony Brighton <sbrighto@umd.edu>
Subject: MATH courses for the ANTH BS proposal?

Dear Mathematics Chair Scott Wolpert,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. This new BS degree would require 7-8 credits of Math, whereas the current BA degree only requires 3 credits. The BA option will remain in place and some BS students take STAT100 or MATH111 toward the math requirement. Currently about 10 Anthropology take Calculus classes (MATH140, 141, 220, 221). We imagine that the BS degree option will mean about 25 Anthropology students will take Calculus classes eventually reaching as many as 50 students a year. We understand Anthropology students will not have any special access to seats and will have to comply with the Math placement test results.

Is MATH okay with this (see below) in our proposal for a BS? Should we know anything about the availability of these course going forward?

Please let me know if I can answer any questions for you, ERIK

Current Quantitative Skills Requirement for the BA (1 course – 3 credits)
MATH111: Introduction to Probability (or higher level MATH class)
STAT 100: Elementary Statistics and Probability
BIOM301: Introduction to Biometrics
ECON201: Principles of Macroeconomics
ECON321: Economic Statistics
EDMS451: Educational Statistics
GEOG306: Intro to Quant Methods for the Geographic Enviro Sciences
PSYC200: Statistical Methods in Psychology
SOCY 201: Introductory Statistics for Sociology

Proposed Quantitative Skills Requirement for the BS (2 courses - 7-8 credits)
MATH140: Calculus I (4)
MATH141: Calculus II (4)
MATH220: Elementary Calculus I (4)
MATH221: Elementary Calculus II (4)
STAT100: Elementary Statistics and Probability or MATH 111: Introduction to Probability

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436
Hi Erik,

We are very pleased to see your interest in our courses and are happy to have these courses below listed as potential electives for your Anthropology BS degree program. At this point, we anticipate both of these courses are already full (or will be shortly) for the spring semester, so any guaranteed seats for your students would need to be negotiated for the Fall semester and beyond.

I’m cc’ing our Assistant Dean for Undergraduate Affairs so she’s in the loop on this as well.

Best,
Steve

---

From: Erik Hanson <ehanson@umd.edu>
Date: Friday, December 4, 2015 at 5:08 PM
To: Stephen Roth <sroth1@umd.edu>
Subject: MIEH courses for ANTH BS?

Dear MIEH Director Stephen Roth,

The Anthropology department is in the process of developing a Bachelor of Science (BS) degree. Nine credits of this degree would be drawn from science electives outside of Anthropology that will help students build a strong skills helpful in the areas of ecological anthropology, medical anthropology or archaeology. Some of the courses we would like to list as a science elective are:

*MIEH300 Introduction to Environmental Health
*MIEH321 Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases
*prerequisites apply

Initially we imagine that this would mean 1-2 additional Anthropology BS students per year in each class, perhaps as many as 5 per year as the BS develops. We don’t ask for any special access for Anthropology BS students and they’d be responsible for meeting any prerequisites. We are only asking to list these courses as some of the 40+ possible science electives in our proposal.
Is it okay with the Maryland Institute for Applied Environmental Health that we list these MIEH courses as some of our science electives for our Bachelor of Science degree? Should we know anything about these courses’ availability heading forward?

Please let me know if you have any questions, ERIK

Erik Hanson
Undergraduate Advisor
Anthropology Department
1111 Woods Hall
College Park, MD 20742
(301) 405-1436