

# COLLEGE OF ARTS AND SCIENCES NEW PROGRAM REVIEW FORM

	Chair's Signature	Recommendation		Review Date
Department	<u>Cheryl Childers</u>	<u>Approve</u>		<u>2014-11-05</u>
Division	<u>Kim Morse</u>	<u>Approve</u>		<u>2014-11-12</u>
Dept. of Educ.	<u>N/A</u>			
<small>(If relates to teacher certification program.)</small>				
Dean	<u>Laura Stephenson</u>	<u>Approve</u>		<u>2014-11-18</u>
Curriculum Committee	<u>Michael Hager</u>	<u>Approve</u>		<u>2014-12-04</u>
Accepted by CFC	<u>Laura Stephenson</u>	<u>Approve</u>		<u>2015-01-21</u>
CAS Faculty	<u>Bruce Mactavish</u>	<u>Approve</u>		<u>2015-01-28</u>
Approved By:	Faculty Senate _____	University Faculty _____		WU Board of Regents _____

1. Title of Program.

Bachelor of Science in Anthropology (Forensics Concentration)

2. Rationale for offering this program.

The partnership between WU and the KBI provides new opportunities for collaboration between WU faculty/students and KBI scientists. As part of this collaboration, we are proposing a new concentration in forensics. As Forensic Anthropology utilizes elements of both physical and applied social sciences, we are proposing a Bachelor of Science degree. The combination of disciplines that are part of this degree will enable students to move into either graduate programs or into the labor force as members of forensics labs or crime investigative teams. Students will have opportunities to interact with KBI scientists as guest lecturers, adjunct faculty, or mentors in internships. Students will also have multiple opportunities for field experiences in developing their understanding and application of forensic analysis. This degree includes a structured minor in Biology to emphasize the breadth of science used by forensic professionals. We are also developing five new courses as part of this degree, and they are currently in the approval process.

3. Exact proposed catalog description.

[NOTE: As we are now offering two degrees, we re-wrote both, which are presented below.]

THE MAJOR

Both the B.A. and B.S. degrees in Anthropology are designed to prepare students to be competitive as applicants to a variety of graduate school programs or in the labor market.

## REQUIREMENTS FOR ANTHROPOLOGY MAJORS

All Anthropology majors must take a 15-hour core consisting of:

- AN 112 Cultural Anthropology
- AN 114 Introduction to Archaeology
- AN 116 Physical Anthropology
- AN 324 History & Theory of Anthropology
- AN 362 Methods of Social Research

### B.A. in Anthropology

Students working toward a B.A. degree in Anthropology must complete a minimum of 33 hours of credit in the department: the 15-hour core and 18 additional hours. These 18 hours must include:

- One Area Studies course: AN 317, 319, 320 or 325
- SO 100 or SO 101
- One AN elective
- One AN or SO upper-division elective
- Two AN upper-division electives:

It is recommended that majors in Anthropology develop a correlate area in a sub-discipline of Anthropology (ethnology, physical anthropology, archaeology, or linguistics), nine hours to be chosen from the department or from other departments in consultation with a department advisor.

Majors working toward the B.A. degree are strongly encouraged to take courses in statistics and computer science; and to complete a minor. Students must earn a grade of "C" or better in all courses applied to the major.

### B.S. in Anthropology (Forensics Concentration)

Students working toward a B.S. degree in Anthropology (Forensics Concentration) must complete a minimum of 39 hours of credit in the major: the 15-hour core and 24 additional hours. These 24 hours must include:

- AN 118 Introduction to Forensic Science
- AN 303 Human Prehistory
- AN 315 Human Osteology
- AN 316 Forensic Anthropology
- AN 359 Excavation Methods & Forensic Analysis
- AN 363 Internship
- Two (2) of the following Elective courses:
  - AN 312 Medical Anthropology
  - AN 328 Case Studies in Forensic Anthropology
  - AN 371 Lab Methods in Archaeology
  - AN 372 Archaeology Field School or AN 373 Forensic Field School
  - CJ 415 Forensic Science in Criminal Justice

The B.S. degree also requires a 30-hour minor from the Natural Sciences, with at least 20 hours taken in one department. Students working toward the B.S. in Anthropology (Forensics Concentration) will complete 23-25 hours in Biology, 10 hours in Chemistry, and 3 hours in Statistics, with a structured minor in Biology:

BI 102 General Cellular Biology (5)  
BI 103 General Organismal Biology (5)  
BI 250 Introduction to Human Anatomy (3) or BI 275 Human Anatomy (4)  
BI 302 Entomology (4) or BI310 Ecology or (4) BI 324 Systematic Botany (3)  
BI 333 General Genetics (4)  
BI 340 Evolutionary Biology (3)  
CH 103 Introduction to Forensic Chemistry.(3)  
CH 151 Fundamentals of Chemistry (5)  
CH 202 Professional Forensic Chemistry Seminar (2) or CH 203 Forensic Chemistry Laboratory  
(2)  
MA 140 Statistics (3)

Students must earn a grade of "C" or better in all courses applied to the major.

#### 4. List and financial implications.

This new degree does have financial implications. We will require at least one new tenure-track faculty member, preferably an anthropologist holding a Ph.D. in Bio-Archaeology, and adjunct faculty with expertise in Biological Anthropology or Archaeology. We also need additional lab supplies; more bone casts; and analysis tools/technology for the anticipated number of students.

The new Anthropology spaces (the lab and the outdoor excavation site) will be sufficient for our needs. The pro forma document (attached) lists the anticipated budgetary needs for the next five years. We expect these to be met through a combination of revenues generated by additional credit hours from students majoring in the degree; internal funding sources; and the proposed budget that WU submits to the state legislature each year for these new programs.

Sociology Anthropology  
B.S. in Anthropology (Forensic Concentration)

Program Name	B.S. in Anthropology (Forensic Concentration)					Sociology Anthropology B.S. in Anthropology (Forensic Concentration)						
	Year 0 - Prepa	Year 1	Year 2	Year 3	Year 4	Year 5	Year 0 - Prepa	Year 1	Year 2	Year 3	Year 4	Year 5
Revenue:	# Students	# Cr Hrs	# Students	# Cr Hrs	# Students	# Cr Hrs	# Students	# Cr Hrs	# Students	# Cr Hrs	# Students	# Cr Hrs
Est. Students/	0	3	7	10	15	17						
Total Credit Hr	0	90	210	300	450	510						
Tuition Rate		248	248	248	248	248						
Other Revenue Sources												
<b>Total Revenue</b>	<b>0</b>	<b>\$22,320</b>	<b>\$52,080</b>	<b>\$74,400</b>	<b>\$111,600</b>	<b>\$126,480</b>						

Ongoing Expe	Year 0 - Prepa	Year 1	Year 2	Year 3	Year 4	Year 5	FTE
1st Faculty Member**			55,000	13,750	9,600	9,600	1
Benefits (25%)			13,750	9,600	9,600	9,600	1
Adjunct Faculty		7,200	2,500	1,500	8,000	2,000	
Supplies		2,000	1,500	8,000	2,000	2,000	
Marketing		1,500	8,000	2,000	2,000	2,000	
Travel:**	4000						
Online Course Development		2,000	200	800	200	200	
Professional Development		200	800	200	200	200	
Membership		800	200	800	200	200	
Guest Lecturers (mostly from		4,000	21,700	96,050	96,300	96,300	
<b>Total Expense</b>	<b>4,000</b>	<b>21,700</b>	<b>93,350</b>	<b>96,050</b>	<b>96,300</b>	<b>96,300</b>	

**Total Net Rev:** \$ (4,000) \$ 620 \$ (41,270) \$ (21,650) \$ 15,300 \$ 31,180

One-time Star	Year 0 - Prepa	Year 1	Year 2	Year 3	Year 4	Year 5
Furniture		4000				
Lab Supplies (skeleton casts)			4000			
Computer/Software		5500	5500			
Other Electronic Hardware**		4400	10000			
Miscellaneous Tools			2000			
Faculty Recruitment		3500				

Footnotes:

\*\*Denotes expected new tenure-track Bio-Archaeologist position to be hired during Year 1.

\*\*\*Denotes travel expenses for faculty members (\$4,000 each) to complete one week-long training courses at either the Body Farm in TN or Body Recovery at the CSI Academy in FL.

\*\*\*\*Denotes Mapping Station, digital cameras, and digital microscope.

## **B.S. in Anthropology (Forensic Concentration)**

*"Forensic Anthropology is the application of the science of physical or biological anthropology to the legal process" ([www.theabfa.org](http://www.theabfa.org)). It combines archaeological search and recovery techniques with the laboratory skills of skeletal analysis (Cassandra Kuba, <http://www.calu.edu>).*

There are currently NO universities in Kansas that offer any bachelor-level Forensic Anthropology concentrations or certificates. There are only four universities that offer any "Forensic Science" programs at the undergraduate level:

- Bethany College – B.A. in Forensic Science (mostly BI and CH, with 1 AN course) and a Forensic Science minor (BI-4hrs, CH-8 hrs, CJ-12 hrs)
- Newman University – B.S. in Forensic Science (all BI and CH, with one CJ course)
- Washburn University – B.S. in Forensic Chemical Science
- Wichita State University – B.S. in Forensic Science (CH-31hrs, BI-26hrs, PY-9hrs, CJ-6hrs, AN-10hrs, FS practicums-6hrs)

Nationally, there are many bachelor-level Forensic Science programs (concentrated in BI and CH), as well as Certificates and Minors in Forensic Science. We found several Minors in Forensic Anthropology and a few Certificates in Forensic Anthropology, but found only six bachelor degrees with Forensic Anthropology concentrations:

- Baylor University (TX)
  - California University of Pennsylvania
  - Mercyhurst University (PA)
  - Radnor University (PA)
  - Western Carolina University
  - University of Southern Mississippi
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### Potential Collaborations and Benefits of the Program

#### *FOR FACULTY:*

- KBI officials have asked Anthropology forensic faculty to lead workshops for law enforcement personnel in the collection, documentation, and preservation of evidence from any crime scene, but especially those that involve human remains.
- The Forensic Anthropologist with which the KBI contracted has retired. There is potential for our new forensic faculty to take over some of those responsibilities. We plan to hire a Biological-Archaeologist, and are hopeful the KBI recognizes that area as expert witnesses (we are still working on this).
- Anthropology faculty may collaborate with forensic faculty in Chemistry, Biology, Computer Science, and Criminal Justice, and with KBI personnel in teaching forensic science courses.

#### *FOR STUDENTS:*

- Students will benefit from interaction with KBI scientists as adjunct faculty, guest lecturers, internship mentors, etc.
- With the proliferation of books and TV shows, an increasing number of students are interested in forensics. WU students are hearing about the proposed B.S. in Anthropology (Forensic Concentration). In just the last six months, we have had at least four particular students ask to declare it as their major. This program gives students additional opportunities for careers and/or further study at the graduate level.

## Potential Types of Jobs

Students earning a B.S. in Anthropology (Forensic Concentration) would be eligible for jobs that sought baccalaureate degrees in forensic science or natural science. Listed below are examples of current job openings (within the criminal justice field) around the U.S.:

- Criminalist 1A
- Forensic Crime Scene Specialist
- Evidence Technician
- Police Evidence Specialist I
- Crime Scene Investigator
- Crime Scene Technician

With the content we have added to our curriculum at the request of KBI officials, a student earning the B.S. in Anthropology (Forensic Concentration) at Washburn would have the skills needed for employment at many state Bureaus of Investigation (i.e., KBI, OSBI) as:

- Forensic Scientist in the firearms/toolmarks lab
- Criminalist Level 1

Students would also be eligible for jobs outside the criminal justice field. Examples of these types of jobs would be:

- Working at Museums of Natural History
- Cultural Resource Management (surveying, documenting, and/or excavating sites)
- Working at state Historical Societies
- Forensic Identification Specialist

Students earning a B.S. in Anthropology (Forensic Concentration) could also obtain their graduate degrees in physical (biological) anthropology, forensic anthropology, or biology. Individuals with a M.A in Forensic Anthropology will have additional job opportunities, which may include working at the Coroner's or Chief Medical Examiner's Offices, a State Historical Society, or as an adjunct teacher at a college or university.

At the Ph.D. level, forensic anthropology is a very specialized and competitive field. The majority of forensic anthropologists with their doctorates work in academia full-time and as part-time consultants on forensic cases. Forensic anthropologists may also work at the state or federal crime lab.