# **General Education Course Information Sheet**

Please submit this sheet for each proposed course

Department & Course Number	AN N NE M30 / ANTHRO	M30 (suggested)	
Course Title	Science in Archaeology (sho		EM)
Indicate if Seminar and/or Writing II course			
1 Check the recommended GE foundation	on area(s) and subgroups(s) for	r this course	
<ul> <li>Foundations of the Arts and I</li> <li>Literary and Cultural Analy</li> <li>Philosophic and Linguistic A</li> <li>Visual and Performance Art</li> </ul>	sis Analysis	- -	
Foundations of Society and C  • Historical Analysis  • Social Analysis	Culture	- - -	
• Life Science	uiry stration Component must be 5 uns stration Component must be 5 uns	- -	x (elements) x (elements)
2. Briefly describe the rationale for assign	nment to foundation area(s) ar	nd subgroup(s) chos	sen.
This course aims to introduce undergracience as these are used in archaeolosame time as evidence for the applica As an MD with a PhD in archaeology archaeology I feel perfectly positione H., A.N. Dooley, G. Areshian, B. Gas around 4000 BCE in the Late Chalcol Science 38; 2011: 977-84; Barnard H M.E. Malainey, R.E. Parr, M. Rider, for organic residue analysis applied to Archaeological Science 34; 2007: 28-Archaeological Residue Analysis: Bri 2007).	gy, using archaeological exambility and importance of the parand a specialism in applying d to offer a course as proposed sparyan and K.F. Faull, Chemilithic Near Eastern highlands, ., S.H. Ambrose, D.E. Beehr, C. Solazzo and R.M. Yohe II, to one vessel with the residue of 37; Barnard H and J.W. Eerke	nples as a paradigm resented knowledge the natural sciences d here (see, for insta- ical evidence for wi- <i>Journal of Archaed</i> M.F. Forster, R.E. I Mixed results of se of a known foodstuf- ens (eds.), <i>Theory a</i>	and at the e and skills. s in ance, Barnard ine production ological Lanehart, even methods if, Journal of and Practice of
3. "List faculty member(s) who will serve Hans Barnard MD PhD Adjunct Assistant Professor (NELC) Do you intend to use graduate student	and Assistant Researcher (Cot	tsen Institute of Arc	
If ye	es, please indicate the number	of TAs 1	
4. Indicate when do you anticipate teachi	ng this course over the next th	ree years:	
2012-2013 Fall	Winter	Spring	<b>X</b>
Enrollment 2013-2014 Fall	Enrollment Winter	Enrollment Spring	x 80

	rollment	Enrollment	Enrollment	80
2014-2015 Fal	1	Winter	Spring	X
	rollment	Enrollment	Enrollment	80
5. GE Course Units	<del></del>		<del>_</del>	
	se that has been mod	lified for inclusion in the new C	GE? Yes <b>x</b>	No
If yes, provide a brief e			JL: ICS X	
		THRO CM110Q/210Q, "An Int	roduction to	
		et-up to discuss with anthropole		logy
		that are used in present-day are		
		substantial gap in the most bas		
		uate students enrolled in the co		
	•	rest in and talent for undergrad		
		ourse to cater to a larger audience		
		m to introduce selected element rchaeology will attract those no		
		ce of the scientific knowledge a		
		course material is adapted to a		
		uizzes are replaced by weekly o		
		ving than knowledge testing, w		in-class
		on-line assignment which requ		
		n as Google Docs. A discussion	section modera	ted by a
Teaching Assistant ha	s been added to disc	uss the weekly assignments.		
Present Number of Uni	ts: <b>4</b>	Proposed Numb	er of Units	4
		GE principles applicable to this		
-				ol saignage that
☐ General Knowledge	_	vides an overview of these elem on knowledge among UCLA gr		
		orem to the translation of RNA		
	-	s and ions to calculating standa	_	_
	correlations, and	Student's t-tests.		
☐ Integrative Learning		nis course is centered on the app		
		skills in the field of archaeology	z, providing evid	
		l :		
		l importance. Archaeology is a	particularly inter	rdisciplinary field
	of research and o	can serve as paradigm for many	particularly interelements of the	rdisciplinary field natural sciences,
	of research and of for instance trigo	can serve as paradigm for many pnometry in surveying, physical	particularly inter elements of the l and organic che	rdisciplinary field natural sciences,
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Critical Thinking

Critical thinking takes central stage in this course. Lectures and discussions are geared towards student participation, while weekly on-line assignments invite students to critically address the subjects discussed in class. A second set of weekly on-line assignments require problem solving skills related to the methods and techniques discussed in class and the readings. Both ethical issues and the philosophy of science are addressed in several of the lectures and discussions.

□ Rhetorical Effectiveness

Students will be called upon for their input in class, not only during the planned discussion sections, but also by the questions posed by the instructor aimed to keep them engaged during the lecture sessions. A randomized roster will be used to secure a fair rotation of such prepared and *ad hoc* oral participation.

□ Problem-solving

One set of weekly on-line assignments will address the subjects presented in class. These assignments do not aim to test knowledge, but rather to stimulate problem solving skills related to the methods and techniques discussed in class and the readings. A second set of on-line assignments invite students to critically address the subjects to be discussed in class.

☐ Library & Information Literacy

One set of weekly on-line assignments will require students to solve a number of problems, partly based on the lectures and readings as well as independent research using a variety of physical and on-line information sources ranging from UCLA's Research Library to Wikipedia.

1.	Lecture:	3	(hours)
2.	Discussion Section:	1	(hours)
3.	Labs:	N/A	(hours)
4.	Experiential (service learning, internships, other):	N/A	(hours)
5.	Field Trips:	N/A	(hours)
.) T(	OTAL Student Contact Per Week	4	(HOURS)
1.	UT-OF-CLASS HOURS PER WEEK (if not applicable write General Review & Preparation:	2.0	(hours)
2.	Reading	2.0	(hours)
3.	Group Projects:		(hours)
4.	Preparation for Quizzes & Exams:	2.0	(hours)
5.	Information Literacy Exercises:	1.5	(hours)
6.	Written Assignments:	1.5	(hours)
7.	Research Activity:	2.0	(hours)
· · · · · · · · · · · · · · · · · · ·	OTAL Out-of-class time per week	11	(HOURS

# **Proposal for a new GE-course**

#### **Course Title**

Science in Archaeology

(short title: ArchaeoSTEM)

Most of the constituent elements of the proposed class have been tested in course ANNEA CM169/269—ANTHRO CM110Q/210Q, "An Introduction to Archaeological Science," by the same instructor. The GE-course proposed here should likewise be cross-listed between NELC and Anthropology; course number ANNEA M30—ANTHRO M30 is suggested.

This proposal is supported by William Schniedewind (Chair, Department of Near Eastern Languages and Cultures), P. Jeffrey Brantingham (Vice Chair, Department of Anthropology), Charles Stanish (Director, Cotsen Institute of Archaeology), and Kym F. Faull (Director, Pasarow Laboratory of Mass Spectrometry).

# **Grading Structure**

Students who submit and pass all of the weekly on-line assignments receive a passing grade. Students who fail to

submit or pass more than two of the weekly assignments do a written final exam. With consent of the instructor other students can also take the final exam for a letter grade.

#### Instructional Format

The course consists of ten lectures; each divided in two instructional sessions, separated by a discussion of an assignment. Participation in class will be stimulated using a randomized roster. Each week all students do two on-line assignments: one comprises a dozen multiple-choice questions about the readings; the second comprises a brief activity to be reported in a collaborative on-line environment. There is no mid-term examination and a final written examination only for students who failed to submit or pass more than two assignments.

# **Proposed for a GE-Requirement?**

Yes (see the table below and the attached form).

#### Proposed for a Major or Minor Requirement?

No.

# **Prerequisites?**

None.

### **Course Description**

Archaeology is rapidly developing due to the on-going introduction of new hardware, software and information dissemination technology. This process presents opportunities not only to obtain new scholarly insights, but also to provide integrated instruction in STEM skills. This class aims to use archaeological data as a paradigm in STEM education during ten weeks of lectures, discussion and assignments. Each week all students do two on-line assignments. One comprises a dozen multiple-choice questions about the readings. The questions address insight rather than factual knowledge. The second assignment comprises an activity which is reported upon in a collaborative on-line environment. Assignments will be available for nine days before they are due. Discussion of the assignments and the participation of students in class will be according to a randomized roster, which will also function as a check on the presence of students. All material shown in class, the assignments and the readings, except the textbook, will be available to students on UCLA's CCLE web-site.

#### Justification

Archaeology is a multi-disciplinary field of study, combining its own research methods and technologies with elements from geology, history, ethnography, geography, material science, statistics, biology, biochemistry, medicine, and others. In an undergraduate learning environment, the problem-based approach of archaeological projects instantly leads to STEM-based skills; skills that will be consolidated as they feed directly into an intellectual framework. The instant practical application of mathematics during surveying, geology during ceramic analysis or geophysical research, biochemistry during archaeological residue analysis, or biology during zooarchaeological or paleoethnobotanical research offers a point of departure for instructors as well as motivation to students. The fact that too few UCLA students can remember the difference between a molecule and an ion, or how to project a line on the abscissa using a cosine, illustrates the great need for STEM instruction at the most basic level. The appeal of archaeology can be used to introduce STEM subjects to students, including those not directly pursuing a career in anthropology or archaeology, and at the same time show the relevance of these skills.

# **Syllabus**

The table below presents the subjects of the weekly lectures, discussions and assignments, along with the readings. The GE component of each set is given in a separate column.

Week	Title	GE-component	Discussion	Assignment	Readings
1	Introduction	critical and ethical thinking	ethics of archaeology and heritage (with video)	compare maps	Bahn, P. and C. Renfrew (2008), Archaeology: Theories, Methods and Practice, London, Thames and Hudson (textbook, selected readings).
					Further reading: Brothwell, D.R. and A.M. Pollard (2005), Handbook of Archaeological Sciences, Chichester and New York, John Wiley and sons, Ltd. McGovern, P.E. (1995), Science in archaeology: A
					review, American Journal of Archaeology 99: 79-142.
2	Surveying, mapping and GIS	elements of trigonometry, sine, cosine, Pythagorean theorem	compare maps	measuring exercise	Renfrew and Bahn, Archaeology, pp. 73-120.  Smith, M.L. (2005), Networks, territories, and the cartography of ancient states, Annals of the Association of American Geographers 95: 832-849.  Warden, R. (2009), Towards a new era of cultural-heritage recording and documentation, ATP Bulletin: Journal of Preservation Technology 40: 5-10.  Williams, P.R and D.J. Nash (2006), Sighting the apu: A GIS analysis of Wari imperialism and the worship of mountain peaks, World Archaeology 38: 455-468.

3	Remote sensing	elements of physics, electromagnetics, SI	measuring	game model of science	Renfrew and Bahn, Archaeology, pp. 177-230.  Davenport, G.C. (2001), Remote sensing applications in forensic investigations, Historical Archaeology 35: 87-100.  Kvamme, K.L. (2003), Geophysical surveys as landscape archaeology, American Antiquity 68: 435-457.  Leucci, G. and S. Negri (2006), Use of ground penetrating radar to map subsurface archaeological features in an urban area, Journal of Archaeological Science 33, 502-512
4	Molecular archaeology	elements of physical chemistry, periodic table, stable isotopes	game model of science (with video)	classification exercise	Renfrew and Bahn, Archaeology, pp. 275-316.  Bentley, R.A. (2006), Strontium isotopes from the earth to the archaeological skeleton: A review, Journal of Archaeological Method and Theory 13: 135-187.  Budzikiewicz, H. and R.D. Grigsby (2006), Mass spectrometry and isotopes: A century of research and discussion, Mass Spectrometry Reviews 25: 146-157.  Hedges, R.E.M. and L.M. Reynard (2007), Nitrogen isotopes and the trophic level of humans in archaeology, Journal of Archaeological Science 34: 1240-1251.
5	Dating	elements of physical chemistry, unstable isotopes	classification	form-function-style	Renfrew and Bahn, <i>Archaeology</i> , pp. 121-174.  Mellars, P. (2006), A new radiocarbon revolution and the dispersal of modern humans in Eurasia, <i>Nature 439</i> : 931-935.  Rogers, A.K. (2008), Obsidian hydration dating: Accuracy and resolution limitations imposed by intrinsic water variability, <i>Journal of Archaeological Science 35</i> : 2009-2016.  Wilson, M.A., M.A. Carter, C. Hall, W.D. Hope, C. Ince, S.D. Savage, B. McKay and I.M. Betts (2009), Dating fired-clay ceramics using long-term power law rehydroxylation kinetics, <i>Proceedings of the Royal Society A</i> , doi: 10.1098/rspa.2009.0117.

6	Ceramic analysis	elements of geology,	form-function- style	archaeology in the popular media	Renfrew and Bahn, Archaeology, pp. 317-356.
		minerology	(with video)		Barnard, H., S.H. Ambrose, D.E. Beehr, M.D. Forster, R.E. Lanehart, M.E. Malainey, R.E. Parr, M. Rider, C. Solazzo and R.M. Yohe II (2007), Mixed results of seven methods for organic residue analysis applied to one vessel with the residue of a known foodstuff, <i>Journal of Archaeological Science 34</i> : 28-37.  Riederer, J. (2004), Thin section microscopy applied to the study of archaeological ceramics, <i>Hyperfine Interactions 154</i> : 143-158.  Tite, M.S. (2008), Ceramic production, provenance and use: A review, <i>Archaeometry 50</i> : 216-231.
7	Flora and fauna	elements of biochemistry, DNA, RNA, proteins	archaeology in the popular media (with video)	philosophy of science	Renfrew and Bahn, Archaeology, pp. 231-274.  Pennington, H.L. and S.A. Weber (2004), Paleoethnobotany: Modern research connecting ancient plants and ancient peoples, Critical Reviews in Plants Sciences 23: 13-20.  Piperno, D.R. (2009), Identifying crop plants with phytoliths (and starch grains) in Central and South America: A review and an update of the evidence, Quaternary International 193: 146-159. Thomas, R. (2005), Zooarchaeology, improvement and the British agricultural revolution, International Journal of Historical Archaeology 9, 71-88.
8	Databases	elements of information technology, databases	philosophy of science (with video)	age Clint exercise	Renfrew and Bahn, <i>Archaeology</i> , pp. 429-468.  Broquet-Appel, JP., PY. Demars, L. Noiret and D. Dobrowsky (2005), Estimates of Upper Palaeolithic meta-population size in Europe from archaeological data, <i>Journal of Archaeological Science 32</i> : 1656-1668.  Joyce, R.A. and R.E. Tringham (2007), Feminist adventures in hypertext, <i>Journal of Archaeological Method and Theory 14</i> : 328-358.  Kintigh, K. (2006), The promise and challenge of archaeological data integration, <i>American Antiquity 71</i> : 567-578.

9	Statistics	elements of statistics, correlation, hypothesis testing	age Clint	critique imagery	Renfrew and Bahn, Archaeology, pp. 545-577.  Aldenderfer, M.S. (1998), Quantitative methods in archaeology: A review of recent trends and developments, Journal of Archaeological Research 6: 91-120.  Eerkens, J.W. and R.L. Bettinger (2001), Techniques for assessing standardization in artifact assemblages: Can we scale material variability? American Antiquity 66: 493-504.  Neff, H. (1993), Theory, sampling, and analytical techniques in the archaeological study of prehistoric ceramics, American Antiquity 58: 23-44.
10	Visual archaeology	elements of information technology, data reduction	critique imagery	none	http://hampsonmuseum.cast.uark.edu/browse.htm http://www.maya- archaeology.org/museums/copan/copangate.php http://seasia.museum.upenn.edu/ http://seasia.museum.upenn.edu/ http://www.learn.columbia.edu/bourbonnais/ http://dlib.etc.ucla.edu/projects/Karnak/  Hendrickson, C. (2008), Visual field notes: Drawing insights in the Yucatan, Visual Anthropology Review 24: 117-132. Monmonier, M. and H.J. de Blij (1996), How to Lie with Maps, Chicago, University of Chicago Press: 139-173 (Chapters 10-11). Tufte, E.R. (2001), The Visual Display of Quantitative Information, Cheshire, Graphics Press: 13-51 (Chapter 1).

# **New Course Proposal**

Ancient Near East 30

Science in Archaeology

Course Number Ancient Near East 30

Title Science in Archaeology

**Short Title ARCHAEOSTEM** 

Units Fixed: 4

Grading Basis Letter grade or Passed/Not Passed

<u>Instructional Format</u> Lecture - 3 hours per week

Discussion - 1 hours per week

TIE Code LECS - Lecture (Plus Supplementary Activity) [T]

**GE Requirement Yes** 

Requisites None.

Course Description Archaeology is rapidly developing due to the on-going introduction of new hardware, software and information dissemination technology. This process presents opportunities not only to obtain new scholarly insights, but also to provide integrated instruction in STEM skills. This class aims to use archaeological data as a paradigm in STEM education during ten weeks of lectures, discussion and assignments. Each week all students do two on-line assignments. One comprises a dozen multiple-choice questions about the readings. The questions address insight rather than factual knowledge. The second assignment comprises an activity which is reported upon in a collaborative on-line environment. Assignments will be available for nine days before they are due. Discussion of the assignments and the participation of students in class will be according to a randomized roster, which will also function as a check on the presence of students. All material shown in class, the assignments and the readings, except the textbook, will be available to students on UCLA"s CCLE web-site.

Justification Archaeology is a multi-disciplinary field of study, combining its own research methods and technologies with elements from geology, history, ethnography, geography, material science, statistics, biology, biochemistry, medicine, and others. In an undergraduate learning environment, the problem-based approach of archaeological projects instantly leads to STEM-based skills; skills that will be consolidated as they feed directly into an intellectual framework. The instant practical application of mathematics during surveying, geology during ceramic analysis or geophysical research, biochemistry during archaeological residue analysis, or biology during zooarchaeological or paleoethnobotanical research offers a point of departure for instructors as well as motivation to students. The fact that too few UCLA students can remember the difference between a molecule and an ion, or how to project a line on the abscissa using a cosine, illustrates the great need for STEM instruction at the most basic level.

Syllabus File Science in Archaeology syllabus.doc was previously uploaded. You may

	view the file by clicking on the	file name.			
Supplemental					
Information  Creding Structure	1000/ wastaly whiten essions	agents (100% agen)			
Effective Date	100% - weekly written assignments (10% each)				
<u>Instructor</u>		TVI.			
<u>mstructor</u>	Name Hans Barnard	Title Assistant Adjunct Professor			
Overton Toucht		Assistant Adjunct Professor			
Quarters Taught	Fall Winter S	pring Summer			
	Near Eastern Languages & Cul	ltures			
Contact		E-mail			
Routing Help	ESTHER CHANG	estchang@humnet.ucla.edu			
ROUTING STATUS					
Role: FEC Cha	ir or Designee - Meranze, Mich	ael (meranze@history.ucla.edu) - 52671			
Status: Pending	Action				
Role: L&S FE0 45040	C Coordinator - Castillo, Myrna	Dee Figurac (mcastillo@college.ucla.edu) -			
Status: Returned	for Additional Info on 6/22/20	12 10:17:43 AM			
Changes: No Chan	ges Made				
Comments: Routing to Michael Meranze for FEC approval					
	Role: Dean College/School or Designee - Schaberg, David C (dschaberg@college.ucla.edu) - 54856, 50259				
Status: Approved on 6/20/2012 9:03:34 PM					
Changes: No Changes Made					
Comments: No Comments					
Role: L&S FE0 45040	C Coordinator - Castillo, Myrna	Dee Figurac (mcastillo@college.ucla.edu) -			
Status: Returned	for Additional Info on 6/20/20	12 12:53:46 PM			
Changes: Course N	Jumber, Multiple List, Grading	Structure			
Comments: Per departments, removed multiple listing and changed course number back to 30. Routing to David Schaberg for Dean's approval.					
•	Role: Department/School Coordinator - Walters, Ann E (awalters@anthro.ucla.edu) - 52511				
	Status: Denied on 6/20/2012 12:21:52 PM				
Changes: No Chan	•				
Comments: Ann Wal	Comments: Ann Walters, staff designee, for P. Jeffrey Brantingham, Vice Chair, Anthropology				
Dalas Danaster	ont/Cohool Coordinator Clara	Esthor C (astahon a @hummat usla a Ju)			
Kole: Departme	end School Coordinator - Chang	g, Esther S (estchang@humnet.ucla.edu) -			

54165

Status: Approved on 5/31/2012 10:09:55 AM

Changes: Course Number, Multiple List

Comments: Changed the course number to meet the requirements of the anthropology department.

Dr. Barnard has received permission to make this change and to multiple-list from the

Anthro Dept Chair.

Role: L&S FEC Coordinator - Castillo, Myrna Dee Figurac (mcastillo@college.ucla.edu) -

45040

Status: Returned for Additional Info on 4/17/2012 12:10:07 PM

Changes: No Changes Made

Comments: Routing back to Esther Chang. Per Anthro dept, please remove Anthro multiple listing

from this course.

Role: Department/School Coordinator - Walters, Ann E (awalters@anthro.ucla.edu) - 52511

Status: Denied on 4/17/2012 9:34:52 AM

Changes: No Changes Made

Comments: Ann Walters, staff designee, for P. Jeffrey Brantingham, Vice-chair.

Role: L&S FEC Coordinator - Castillo, Myrna Dee Figurac (mcastillo@college.ucla.edu) -

45040

Status: Returned for Additional Info on 3/13/2012 11:42:25 AM

Changes: No Changes Made

Comments: Routing to Ann Walters for Anthro dept chair approval

Role: Department Chair or Designee - Schniedewind, William M

(williams@humnet.ucla.edu) - 54165

Status: Approved on 3/13/2012 1:50:00 AM

Changes: No Changes Made

Comments: No Comments

Role: Initiator/Submitter - Chang, Esther S (estchang@humnet.ucla.edu) - 54165

Status: Submitted on 3/6/2012 4:42:53 PM Comments: Initiated a New Course Proposal



<u>Main Menu Inventory Reports Help Exit</u> <u>Registrar's Office MyUCLA SRWeb</u>

Comments or questions? Contact the Registrar's Office at <a href="mailto:cims@registrar.ucla.edu">cims@registrar.ucla.edu</a> or (310) 206-7045