



# CONSERVATION OF ANCIENT GREEK POTTERY AT DEBELT, BULGARIA

**Course ID: HIS 489**

**June 23-July 6, 2024**

**Academic Credits: 2 Semester Credit Units (Equivalent to 3 Quarter Units)**  
**School of Record: Culver Stockton College**

## **DIRECTORS:**

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## **INTRODUCTION**

This is an introductory workshop for the conservation of ceramics, using ancient Greek pottery recovered from sites in the Western Black Sea coast of Bulgaria. This program will guide students through the history of Ancient Greek pottery and the process of pottery conservation, restoration, documentation, and study. The program takes place in the archaeological reserve with a museum “Deultum” in the village of Debelt.

The course includes three modules: 1) practical work in conservation of ancient pottery, working on ceramic artifacts recovered during excavations at cemetery of Apollonia Pontica (present-day Sozopol, Bulgaria); 2) lectures on topics related to the archaeological context of conserved vessels and to conservation process of ancient Greek pottery; 3) excursions to the ancient coastal towns of Nessebar (UNESCO World Heritage Site) and a tour of Sozopol (including study visits to their archaeological museums).

### **IMPORTANT DISCLAIMER**

The Center for Field Sciences was established to support field training in a range of sciences at sites across the world. Traveling and conducting field work involves risk. Students interested in participating in any CFS program must weigh the potential risk against the value of education provided for the program sites of their choosing.

Risk is inherent in everything we do and the CFS takes risk seriously. A committee of leading scholars review each field school location prior to approval. Once a program is accepted, the CFS continually monitors conditions at the program site, its academic quality and ability to conduct as safe of an experience as possible.

The CFS does not provide trip or travel cancellation insurance. Students are encouraged to explore such insurance policies on their own. Post Covid 19, most basic policies do not cover trip cancelation due to pandemics. If you wish to purchase an insurance policy that covers such contingencies, explore Cancel for Any Reason (CFAR) plans. [Insuremytrip.com](https://www.insuremytrip.com), [Squaremouth.com](https://www.squaremouth.com) or [Travelguard.com](https://www.travelguard.com) are possible websites where students may explore different insurance policies.

You should be aware that conditions in the field are different than those you experience in your home, dorms, or college town. You will be exposed to the elements, live in rustic accommodation, and expect to engage in physical activity daily.

We do our best to follow the schedule and activities as outlined in this syllabus. Yet local permitting agencies, political, environmental, personal, or weather conditions may force changes. This syllabus, therefore, is only a general commitment. Students should allow flexibility and adaptability as research work is frequently subject to change.

All students must consult medical professionals to ensure they are fit to participate in this program. If you have any medical concerns, please consult your doctor. For all other concerns, please consult with the program director – as appropriate.

### **COURSE OBJECTIVES**

By the end of the program the participants will:

- Be introduced to basic methods of conservation and documentation of ancient pottery.
- Be able to develop basic/further practical skills (depending on participant's initial level of qualification) in ancient pottery conservation and illustration.

- Deepen their knowledge through first-hand experience with ancient Mediterranean/European History and Archaeology.
- Meet professionals who work in the areas of Classical Archaeology and Pottery Conservation and Documentation.

## LEARNT SKILLS

We are aware that many students may not seek academic careers but will pursue employment in the private sector. To that end, we are following the Twin Cairns Skills Log Matrix™ (<https://twincairns.com/skills-log-matrix/>) and will provide training for the following skills:

Skill	Skill Definition
Photography	Ability to take clear images of various feature, artifact & soil colors at various light and field depth conditions
Artifact Conservation	Ability to expertly conserve, preserve & restore ceramic artifacts
Artifact Documentation	Ability to measure, record, photographed and classify various artifact types in the lab
Artifact Processing	Understand how to assign artifacts to accepted cultural/geological spheres, across space (classification) & time (seriation)
Field Conservation	Ability to conduct initial field conservation and preservation of different artifact types, features & architecture
Data Recording	Ability to use printed or digital sheets to document & record field data
Archival Search	Ability to find & search various databases for records related to prior work/research done on cultural or natural heritage in the project area
Public Interpretation	Ability to understand site history and provide clear and coherent interpretation for the public
Report Writing	Ability to write technical reports in coherent language that follow both federal and state regulations and law
Exhibit Preparation	Ability to build mounds and prepare artifacts for museum exhibits or traveling off premises

## SKILLS MATRIX LEVELS

The school instructors will evaluate the level each student achieved on the Twin Cairns Skills Log Matrix™ skills list provided above. Each skill will be graded on one of the following three levels:

**Basic:** Can perform the skill/task with some supervision.

**Competent:** Can perform the skill/task without any supervision.

**Advanced:** Can perform the skill/task and teach others how to do it.

## COURSE SCHEDULE

Date	Activity
June 23	Arrival and check-in by 7.30 pm. 8.00 pm – Traditional Bulgarian welcome dinner
June 24	<b>Morning:</b> Presentation of the Balkan Heritage Field School and collaborative universities & institutions, the project and the participants. Ice-breakers. Town sightseeing and an orientation walk. <b>Afternoon:</b> Lectures
June 25-28	Work & lectures at the labs
June 29	Visit to <a href="#">Nessebar</a> (UNESCO World Heritage Site) - sightseeing and free time
June 30	Day off
July 1-5	Work & lectures at the labs

July 6	Departure. Check-out by 11:30 am
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*\* Course structure may be subject to change upon directors' discretion.*

### TYPICAL WORKDAY

Students will follow this daily schedule during the three weeks of lab work.

7:30-8:30am	Breakfast
8:30am-1:00pm	Workshops on conservation of Ancient Greek Pottery
1:00-3:00 pm	Lunch and free time
3:00- 6:30 pm	Lectures and workshops on conservation and documentation of Ancient Greek pottery
7:30- 9:00 pm	Dinner

### ACADEMIC GRADING MATRIX

Students are required to participate in all components of the field school. Grades are determined as follows:

- Cleaning of pottery sherds, application of various cleaning methods
- Desalination of the ceramic objects
- Gluing of pottery sherds and form reconstruction
- Reconstructing the missing parts of the vessels
- Filling in conservation and restoration forms
- Drawing of pottery
- Digitizing of pottery drawings
- Photographic recording and conservation documentation
- Attendance

All the components specified above have equal importance for the calculation of the average grade. The average degree grade will be recorded in the Transcript of Records.

- ❖ **60% - Lab work:** Students will be assessed on the quality of their lab work (i.e., their ability to effectively use conservation methods and instruments to treat cultural artifacts) Students are expected to be able to link the lectures and readings to their laboratory work.
- ❖ **25% - Lab Records, demonstrated diligence and Active participation:** Students are required to record their work in a notebook that must be submitted to the project at the end of the field school. The notebook must include scaled sketches, procedures and other notes taken while working on assigned objects.
- ❖ **15% - Attendance.**

### ATTENDANCE POLICY

The required minimum attendance for the successful completion of the field school is 95% of the course hours. Any significant delay or early departure from an activity will be calculated as an absence from the activity.

An acceptable number of absences for a medical or other personal reasons will not be considered if the student catches up on the field school study plan through additional readings, homework, or tutorials with program staff members.

### PREREQUISITES

There are no prerequisites for participation in this field school but note that conservation work requires good manual dexterity skills and ability to carry out delicate bench work. Students will

receive hands-on training in conservation work and will spend most of the time learning how to conserve ceramics in a lab setting.

Students will be taught how to use a variety of laboratory procedures and equipment – from microscopes to analytical instruments. Conservation work is slow and may be tedious. It requires patience and focus. This is an introductory course so we will cover all the very basic elements of conservation ethnographic work.

### **PROGRAM ETIQUETTE**

Bulgaria, one of Europe's oldest countries, boasts a diverse and extensive history spanning many centuries, influenced by various civilizations. From the ancient Thracians to the Roman Empire and the Byzantine era, Bulgaria's past reflects its resilience and cultural richness. Its strategic location as a crossroads between East and West has shaped its identity, evident in its architecture, cuisine, and traditions. Today, Bulgaria stands as a vibrant nation blending its storied past with modern aspirations, welcoming visitors to explore its timeless landscapes and captivating history. Bulgarians take pride in their heritage and achievements, and we kindly ask for your respect towards their customs, traditions, and culture.

### **EQUIPMENT LIST**

- Participants will be provided with protective clothing while working at the lab.
- Participants should bring light clothes to wear under lab garments.
- Raincoats for probable rainy and windy days
- Comfortable shoes - visiting some of the sites requires walking on country roads and medieval cobblestone streets
- Wide brim hat
- A small backpack (for your water bottle, snacks, camera, etc.)
- Swimming suits and sunscreen
- Medication - only prescription medicines you may need. It is not necessary to bring non-prescription medicine from your country since you can buy all basic non-prescription drugs in Bulgaria.
- A converter to EU type electricity if needed.
- EQUIPMENT: Participants are encouraged to bring their PC's having at least 6 GB free disk space, a mouse and an USB flash drive. Operating system recommended: Windows Vista or newer.
- A good attitude for work, fun, study and adventures ;)

### **TRAVEL & MEETING POINT**

We suggest you hold purchasing your airline ticket until six (6) weeks prior to departure date. Natural disasters, political changes, weather conditions and a range of other factors may require the cancelation of a program. The CFS typically takes a close look at local conditions 6-7 weeks prior to program beginning and makes a Go/No Go decision by then. Such time frame still allows for the purchase deeply discounted airline tickets while protecting students from potential loss of airline ticket costs if CFS is forced to cancel a program.

There are two airports to which students may fly: Burgas airport (BOJ, 45 km/28 mi from Debelts) or Varna airport (VAR, 160 km/100 mi from Debelts). If participants arrive at one of these airports, a transfer to Debelts may be arranged by request. Transfers prices are Euro 31 (approximately \$35) from Burgas Airport and Euro 70 (approximately \$75) from Varna airport. Transfers can be shared by several participants.

Students who fly to Sofia (Bulgaria's capital) may take a domestic flight, train or bus to the Black Sea coast. If you plan to come through Sofia, let the program director know and we will direct you to a central meeting point at Debelt.

## **VISA REQUIREMENTS**

There are no special visa requirements for U.S. citizen travelling to Bulgaria, as long as they do not stay longer than 3 months. Passport's expiration date should exceed the stay by at least 3 months.

Citizens of other countries are asked to check the embassy website page at their home country for specific visa requirements.

## **MEALS & ACCOMMODATIONS**

Accommodation will be at the archaeological base part of National Archaeological Reserve - Deultum, which is located 22 km from Burgas. It has comfortable ensuite rooms with two to three beds. Free use of wi-fi, washing machine, and kitchen. Bed linen and towels are provided. Wi-Fi is available on the first floor of the lobby area.

There is a restaurant on site, where participants will have all their meals served.

## **PRACTICAL INFORMATION**

**International dialing code:** The Bulgaria international phone code is +359.

**Money/Banks/Credit Cards:** Bulgaria's currency is the Lev. There are several banks in Debelt. Most shops/supermarkets accept major credit cards (with the exception of American Express, which is not always accepted). However, credit cards are not commonly used for small purchases (for example coffee at a café).

**ATM Availability:** There are several ATM machines at Debelt.

**Local Language:** The native language is Bulgarian. Bulgaria sees many international tourists and many Bulgarians, especially young folks, speak at least some English.

**Measurement units:** degree Celsius (°C), meter (m.), gram (gr.), liter (l)

## **ACADEMIC CREDITS & TRANSCRIPT**

Attending students will be awarded 2 semester credit units (equivalent to 3 quarter credit units). Students will receive a letter grade for attending this field school based on the assessment matrix (above). This program provides a minimum of 80 direct instructional hours. Students are encouraged to discuss the transferability of credit units with faculty and the registrar at their home institutions prior to attending this program.

Students will be able to access their transcript through our School of Record – Culver-Stockton College. C-SC has authorized the National Student Clearinghouse to provide enrollment and degree verification (at <https://tsorder.studentclearinghouse.org/school/select>). Upon completion of a program, students will get an email from C-SC with a student ID that may be used to retrieve transcripts. The first set of transcripts will be provided at no cost, additional transcripts may require payment. If you have questions about ordering a transcript, contact the C-SC office of the registrar at [registrar@culver.edu](mailto:registrar@culver.edu).

## **REQUIRED READINGS**

**Boardman, John.:** The History of Greek Vases: Potters, Painters and Pictures, 2006, Thames & Hudson.

**Cherneva, D.:** Richly Decorated Pottery from Apollonia Pontica (4th Century B.C.). Technical Study, Damage Phenomena, and Approach to Conservation. - Report in the Interim Meeting of the ICOM-CC and Glass Working Group and Corpus Vitrearum - ICOMOS in Amsterdam

**Pavlova, L., D. Cherneva, N. Velinov.:** Study on Red-figure Ancient Ceramics. - In Proceedings of the University of Chemical Technology and Metallurgy, Sofia, 2011.

**Williams, E.:** Figurine Vases from the Athenian Agora, American School of Classical Studies at Athens, Hesperia, Vol. 47, 4, 1978, 356 - 401.

**Sparkes, Brian.** Greek Pottery. The Introduction., 1991, Manchester University Press.

**Cohen, B. & all.:** The colors of clay: Special Techniques in Athenian Vases, J.Paul Getty Museum, Los Angeles, 2006.

**Bays, S., Oakly, V.:** The Conservation and Restoration of Ceramics, Oxford University Press, London, 1993.

**Cronyn, J.:** The Elements of Archaeological Conservation, Routledge, 1998.

*\*Cherneva's publications can be obtained by participants during the workshop.*

## **RECOMMENDED READINGS**

**Bouzek, J.:** Studies of Greek Pottery in the Black Sea Area. Oxford, 2003.

**Cherneva, D.** Investigations on the Gilding Technology of Antique Ceramics from Apollonia Pontica. Archaeologia Bulgarica, XVII, 2, Sofia, 2013, 39-53.

**Panayotova, K. Burial** and post-burial rites in the necropolises of the Greek colonies on the Bulgarian Black Sea Littoral. - In: Ancient Greek Colonies in the Black Sea - 2, vol. I. BAR International Series, 2007, 87 – 126.

**Black, J.:** Recent Advances in the Conservation and Analysis of Artifacts, Summer Schools Pres University of London, 1997

**Cook, Robert Manuel.:** Greek Painted Pottery (Handbook of Archaeology), 1997, Routledge.

**Cook, R., P. Dupont.:** East Greek Pottery. London, New York, 1998. p. 1-10; 26 – 70; 77 – 94; 129 – 131; 192 -206.

**Price, C., Brimblecombe, P.:** Preventing salt Damage in porous Materials, Studies of conservation, 1987, 2, 90 -98.

**Koob, S.P.:** The Use of Paraloid B-72 as an Adhesive: Its Application for Archaeological Ceramics and Other Materials, Studies in Conservation 1978, 95-113.

**Kakoulli, J.:** Greek painting Techniques and Materials, from the fourth to the first century BC, Archetype, Publications, 2009

**Stievano, L., Bertelle, M., Calogero, C.:** Application of <sup>57</sup>Fe Mössbauer Spectroscopy for the Characterization of Materials of Archaeological Interest: The Work Performed in Italy, Hyperfine Interactions, 150 (2003), 13-31.

**Rottländer, R.:** Einführung in die naturwissenschaftlichen Methoden in der Archäologie, Archaeologica venatoria, Institut für Urgeschichte, Universität Tübingen, 1993.

**Forbes, R.J.:** Studies in Ancient Technology, E.J.Brill, New York, 1993.