

Faculty and Administration

PROGRAM DIRECTOR

Renato Perucchio
Professor of Mechanical Engineering and of Biomedical Engineering

STEERING COMMITTEE

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Elizabeth Colantoni, Assistant Professor of Classics

Th. Emil Homerin, Professor of Religion

John Lambropoulos, Professor of Mechanical Engineering and of Materials Science, Senior Scientist in the LLE, Chair, Mechanical Engineering

Allen Topolski, Associate Professor of Art; Chair, Art and Art History

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Stewart Weaver, Professor of History; Chair, History

Edward Wierenga, Professor of Religion and of Philosophy;
Chair, Religion and Classics

FACULTY & STAFF

Pablo Alvarez, Librarian, Robbins Library; Rush Rhees Library

Asish R. Basu, Professor of Geology

Curt Cadorette, Associate Professor of Religion and John Henry Newman Professor of Roman Catholic Studies

Hans Davidsson, Professor of Organ, ESM, Director of the Eastman Rochester Organ Initiative

Ben W. Ebenhack, Senior Lecturer in Chemical Engineering

Cynthia Ebinger, Professor of Geophysics

Udo Fehn, Professor of Geology; Chair, Earth and Environmental Sciences

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Stephanie J. Frontz, Librarian; Art and Music Library, Rush Rhees Library

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William B. Hauser, Professor of History

Michael J. Jarvis, Associate Professor of History

Richard W. Kaeuper, Professor of History

Wayne H. Knox, Professor of Optics and of Physics and Senior Scientist in the LLE;
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Anne Merideth, Senior Lecturer in Religion

Deborah Modrak, Professor of Philosophy

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Morris A. Pierce, Adjunct Assistant Professor of History

Jannick P. Rolland, Brian J. Thompson Professor of Optical Engineering, Professor of Biomedical Engineering, Associate Director of the R.E. Hopkins Center for Optical Design and Engineering

Paul Tankel, Adjunct Assistant Professor of Art

John H. Thomas, Professor of Mechanical and Aerospace Science and of Astronomy



How do I apply?

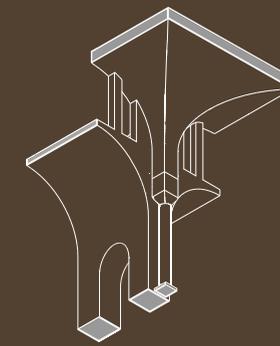
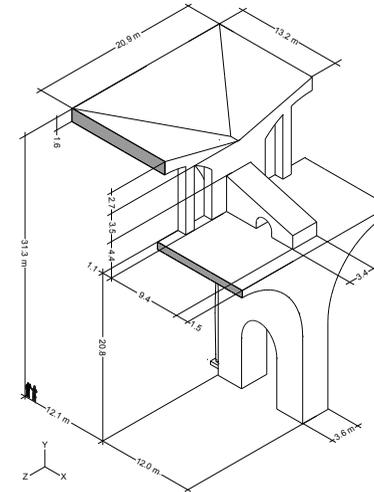
Contact

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Application to the Program

The program in Archaeology, Technology and Historical Structures offers BA majors, minors and clusters. Students interested in pursuing a major or a minor are strongly recommended to contact the Program Director as early as possible.



Archaeology, Technology and Historical Structures

From Antiquity to the Pre-Industrial World



Special Features

Highlights

- Multidisciplinary and interdepartmental
- Integrates archaeology, architecture, classics, art history, history of technology, and engineering
- Study on location and study abroad opportunities
- Major, minor, clusters in several tracks
- Research with faculty leading to Senior Thesis
- Global perspective across societies and cultures
- Collaboration with prestigious foreign academic institutions
- New and unique academic program at the national level

For undergraduate students interested in:

- The humanities (archaeology, architecture, art history, classics, history) with a desire for critical insight into the material culture and technology of pre-industrial societies;
- Mathematics or natural sciences with a desire to study the impact of technology on ancient and pre-industrial cultures;
- An interdisciplinary engineering field emphasizing technology, design, materials, structures, and the architecture of historical monuments;
- Acquiring skills and knowledge of interpretation, conservation, and restoration of historical artifacts, monuments, and infrastructures.

Program tracks prepare students for graduate studies in:

- Archaeology
- Architecture
- Civil or Mechanical Engineering
- Art History, Classics, or History

Sample Research Projects

- Funerary Architecture in Etruscan and Roman Italy
- The Roman Aqueducts of *Nemausus* and Segovia
- Structural Analysis of the Unfinished Gothic Cathedral of Siena
- Concrete Vaulting in the *Frigidarium* of Diocletian's Baths in Rome



Program Details

Objective

This innovative multidisciplinary program studies the establishment and evolution of technological, architectural, and engineering practices and their relationship to the ancient and pre-industrial societies and cultures, which technology and engineering helped create and sustain. Assuming a global perspective, the program integrates material from several disciplines in engineering and the natural sciences, the humanities, and the social sciences. Students learn to apply engineering, archaeological, architectural, and historical methodologies to explore the creation of artifacts, buildings, and infrastructural systems within and across societies and cultures from the first millennium B.C. to the eighteenth century. A prominent feature of the program is undergraduate research under the aegis of both the University of Rochester and prestigious foreign academic institutions to address issues of interpretation, conservation, and restoration of the world's cultural heritage.

Major

The major offers tracks in:

1. Engineering
2. Archaeology and architecture
3. History
4. Science, technology, and society

Requirements:

Three FOUNDATION courses, three track-specific CORE courses, three ELECTIVE courses, and a senior capstone THESIS or RESEARCH PROJECT. Foundation courses provide basic competences in engineering structural analysis, archaeology, and architectural history common to all tracks. Core and elective courses, and thesis or research project are chosen in consultation with the major advisor.

This major leads to a BA degree. It is not a professional program in engineering or in architecture and does not prepare graduates for licensure in either of those professional areas.

Minor

Two foundation courses, two core courses, one elective, and an independent study or project.

Clusters

One foundation course and two core courses.

Courses

Foundation Courses

- ME 104Q The Engineering of Bridges
- ME 106 Engineering in Antiquity
- AH 107 Ancient Architecture
- AH 243 Architecture of the Classical World
- CLA 220 Classical Archaeology: Greek Art and Archaeology
- CLA 221 Classical Archaeology: Roman Art and Archaeology

Core Courses

- ME 206 Building Engineering and Technology in Antiquity
- ME 107 Mechanics and Optics in Antiquity
- CLA 204 Engineering and Society in Classical Antiquity
- ME 207 Roman Structures: Building the Imperial City
- AH 106 Introduction to Archaeology
- CLA xxx Etruscan Archaeology (new course)
- HIS 269 Archaeology of Early America
- AH 114 Creating Architecture
- AH 150 Introduction to Architecture
- AH 243 Architecture of the Classical World
- AH 245 Architecture in the High Middle Ages: Structure and Meaning
- CLA 214 The Ancient City
- CLA 299 Field Methods in Archeology
- CLA 102 Cultural History of Ancient Greece
- CLA 115 Roman World
- CLA 250 Ethnic Identity in Ancient Greece and Rome
- PHL 201 History of Ancient Philosophy
- HIS 100 The Ancient World
- HIS 101 Early Europe
- HIS 103 The West and the World Since 1492
- AH 224 Renaissance and Social Changes in Tuscany
- HIS 111 History of Technology
- MTH 300W History of Mathematics
- HIS 207 Intellectual History of Science

Elective Courses (selection)

- ME 110 Engineering Graphics
- ME 120 Engineering Mechanics: Statics
- ME 204 Mechanical Design
- AH 256 Vernacular Architecture in the USA
- AH 274 Cultural History of American Architecture
- SA 131 Introductory 3D
- EES 119 Energy and Mineral Resources
- EES 204 Mineralogy
- CLA 135 Classical Mythology
- CLA 142 The Ideas of the Greeks
- CLA 209 Ancient Roman Religion