

Faculty and Administration

PROGRAM DIRECTOR

Renato Perucchio

Professor of Mechanical Engineering and of Biomedical Engineering

STEERING COMMITTEE

Theodore M. Brown, Professor of History, of Community and Preventive Medicine, and of Medical Humanities

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

David A. Walsh, Professor of Art History and of History

Stewart Weaver, Professor of History; Chair, History

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

FACULTY & STAFF

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

Cynthia Ebinger, Professor of Geophysics

Robert Foster, Professor of Anthropology and of Visual and Cultural Studies

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

Steven M. Gonek, Professor of Mathematics

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; Associate Dean of Education and New Initiatives

Anne Merideth, Senior Lecturer in Religion

Deborah Modrak, Professor of Philosophy

Jack G. Mottley, Associate Professor of Electrical and Computer Engineering and of Biomedical Engineering

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

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

Robert H. Wolfe, Adjunct Instructor of Art and Art History



How do I apply?

ATHS Program Contacts:

Prof. Renato Perucchio

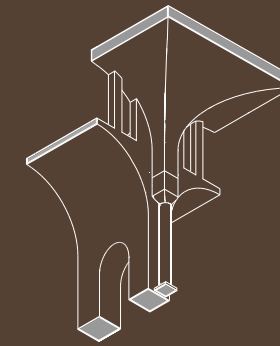
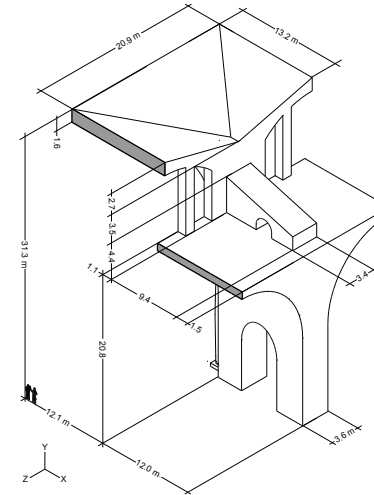
Program Director
University of Rochester
415 Hopeman Building
Rochester, NY 14627
Telephone: (585) 275-4069
E-mail: rlp@me.rochester.edu

Hillary Brower

Academic Advisor
Multidisciplinary Studies Center
4209-B Dewey Hall
Telephone: (585) 276-5305
E-mail: hillary.brower@rochester.edu

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 encouraged 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 and clusters
- Optional 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.

Students may tailor the program to prepare for graduate studies in:

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

Sample Research Projects include:

- Funerary Architecture in Etruscan and Roman Italy
- The Roman Aqueducts of Nîmes and Segovia
- Structural Analysis of the Great Hall of Trajan's Market in Rome
- Water Systems in Roman Pompeii
- Cobblestone Masonry in Orleans County, NY



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 optional 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 Requirements

The major requires 44 credit hours and leads to a BA degree. Students may pursue **Track A**, a course-based path requiring 11 courses, or **Track B**, a research-based path comprised of 9 courses plus an 8 credit senior project (subject to faculty approval). Depending on course selection, the major may be designed to satisfy any of the three divisions of the College: Humanities, Social Sciences, or Natural Sciences/Engineering.

Courses are subdivided into a common Foundation, specialized Cores and Electives. Foundation courses provide basic competences in engineering analysis, archaeology, and architectural history. Core and Elective courses allow students to tailor the program to their specific interests in:

- Core 1 - Engineering
- Core 2 - Archaeology & Architecture
- Core 3 - History
- Core 4 - Science, Technology & Society

This is not a professional program in engineering or architecture and does not prepare graduates for licensure in either of those professional areas.

Minor Requirements

Two Foundation courses (one in ME and one in AH or CLA) plus two Core courses and two Electives. Optional 4 credit independent study in place of second elective (subject to faculty approval). Depending on course selection, the minor may be designed to satisfy any of the three divisions of the College: Humanities, Social Sciences, or Natural Sciences/Engineering.

Clusters

Visit the Cluster Search Engine to view ATHS cluster options:
http://rochester.edu/College/CCAS/clusters/cluster_search7.html

Courses

Foundation Courses

(Tracks A and B require 3 courses. 1 each from ME, AH, and CLA.)

- 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

(Track A requires 4 courses. Track B requires 3 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
- HIS 269 Archaeology of Early America
- AH 114 Creating Architecture
- AH 150 Introduction to Architecture
- 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 242 Barbarian Europe
- HIS 111 History of Technology
- MTH 300W History of Mathematics
- HIS 207 Intellectual History of Science
- EES 215 Environmental and Applied Geophysics

Sample Elective Courses (see website for full list of courses)

(Track A requires 4 courses. Track B requires 3 plus an 8 credit senior project.)

- 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 Studio Arts: 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