Faculty and Administration

PROGRAM DIRECTOR
Renato Perucchio
Professor of Mechanical Engineering and of Biomedical Engineering

STEERING COMMITTEE
Elizabeth Colantoni, Assistant Professor of Classics
Th. Emil Homerin, Professor of Religion
Michael Jarvis, Associate Professor of History
John Lambropoulos, Professor of Mechanical Engineering and of Materials Science, Senior Scientist in the LLE, Chair, Mechanical Engineering
Matthew Lenoe, Associate Professor of History, Chair, History
Joan Saab, Associate Professor of Art and Art History, Chair, Art and Art History
David A. Walsh, Professor of Art History and of History
Edward Wierenga, Professor of Religion and of Philosophy, Chair, Religion and Classics

FACULTY & STAFF
Karen Berger, Lecturer in Earth and Environmental Sciences
Curt Cadorette, Associate Professor of Religion and John Henry Newman Professor of Roman Catholic Studies
Cynthia Ebinger, Professor of Geophysics
Robert Foster, Professor of Anthropology and of Visual and Cultural Studies, Chair, Anthropology
Stephanie J. Frontz, Librarian, Art and Music Library, Rush Rhees Library
John Harper, Professor of Mathematics
Richard W. Kaeuper, Professor of History
Wayne H. Knox, Professor of Optics and of Physics and Senior Scientist in the LLE
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
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.

March 2014
**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 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
- Pre-Hispanic Aqueducts of Northern Peru
- 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 comprising 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 Core and Electives.** Foundation courses provide basic competencies 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: [https://rochester.edu/Colleges/CCAS/clusters/cluster_search.html](https://rochester.edu/Colleges/CCAS/clusters/cluster_search.html)

**Courses**

**Foundation Courses**
- **Track A** requires 3 courses. 1 each from ME, AH, and CLA.
- **Track B** requires 3 courses.
- ME 104Q 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

**Sample Core Courses**
- **Track A** requires 4 courses. **Track B** requires 3 courses.
- ME 107 Mechanics and Optics in Antiquity
- ME 206 Building Engineering and Technology in Antiquity
- ME 207 Roman Structures: Building the Imperial City
- CLA 204 Engineering and Society in Classical Antiquity
- AH 106 Introduction to Archaeology
- HIS 280 Archaeology of Early America
- AH 134 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 Archaeology
- HIS 285 Digital History: The Virtual St. George’s Project
- HIS 299 Field Methods and Research Methods in Archaeology
- CLA 102 Cultural History of Ancient Greece
- CLA 115 Roman World
- PHL 201 History of Ancient Philosophy
- HIS 101 The Ancient World
- HIS 103 The West and the World Since 1492
- AH 242 Barbarian Europe
- HIS 180 History of Technology
- MTH 300 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 137 Introduction to Modern Architecture
- AH 274 Cultural History of American Architecture
- SA 131 Introduction to Sculpture
- EES 211 Earthquake and Volcanic Hazards
- EES 204 Earth Materials
- LAT 101 Elementary Latin I
- CCR 101 New Testament and Classical Greek I
- CLA 135 Classical Mythology

For more information about the ATHS program, please visit our website: [www.rochester.edu/college/ATHS](http://www.rochester.edu/college/ATHS)