



**BCN 4965: History of Sustainable Construction, in Italy  
Rome & Vicenza, Italy  
Summer 2018  
7 – 18 May 2018**

**Instructor:** Mark Russell, PhD, PE,  
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**Information while in Italy:**  
**Phone Number:** cell: (352) 217-0119  
**Office Hour:** 16:00 – 18:00  
**Office Location:** via Giuseppe Ferrari 11, 00195, Rome

**Teaching Assistant:** N/A

**Course Description**

This course provides an overview of the history of sustainable infrastructure construction techniques in Europe with an emphasis on Italian techniques. The integration of international sustainable practices will be evaluated and demonstrated through literature review, lectures, and site tours. The methods for practical application of the European environmental techniques on US construction sites, will be incorporated into all presentations.

**Course Learning Objectives:**

1. The student will be able to explain the differences in construction philosophy between US, Europe, and Italy. Particular attention is dedicated to understanding the variations in job site safety techniques and sustainable principles.
2. The student will be able to explain the evolution of the construction techniques and their impact on project efficiency.
3. The student will be able to comprehend the significance of construction material selection relative to design and the impact on project management. The selection of equipment and prediction of results will be a significant portion of the evaluation.

ACCE Student Performance Criteria this course could meet:

1. Speaking and Writing Skills
  - a. Ability to read, write, listen, and speak effectively
  
2. Critical Thinking Skills
  - a. Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test them against relevant criteria and standards.

### Required Readings

There will be a set of readings made available prior to the trip and these will be discussed in class. Students will be expected to be prepared and come to class ready to discuss. However, there are no requirements to purchase books for this course as the papers will be available for download prior to departure. Additional readings will be assigned during the course of the trip. The following is a list of books that will serve as a starting point:

Title	Author
The Colosseum (Wonders of the World)	Hopkins, Keith
Basilica: The Splendor and the Scandal: Building St. Peter's	Scott, R.A.
Roman Building Techniques	Rook, T.
Mussolini's Rome	Pugliese, S.
Constructing the Ancient World: Architectural Techniques of the Greeks and Romans	Malacrino, C.
Sustainable Development in Europe: A Comparative Discourse Analysis.	Marhold, H. and Meimeth, M.
Sustainable Construction: Green Building Design and Delivery	Kibert, C.

### Course Schedule

Each day will represent a separate module. The day will be filled with multiple active learning segments as well as presentations/ lectures/ site visits. Each module will consist of active participation through reading of course materials and required text, lectures, presentations,

multiple responses to readings via questions and or face to face (these responses are graded and weighted), writing projects and small projects.

Module 1 - Historic perspective of European Sustainable Construction techniques relative to US

Module 2 – Ancient building techniques and their impact on the Rome and the environment

Module 3 – Residential construction sustainability of the Imperial Era

Module 4 – Advancements in engineering applied to the Public facilities of the Imperial Era.

Module 5 – Religious antiquity and an analysis of the sustainable construction techniques

Module 6 – Renaissance sustainable construction techniques as applied to residential facilities.

Module 7 – Fascist sustainable construction methodologies and philosophy

Module 8 – Renaissance sustainable construction techniques of religious facilities.

Module 9 - Modern environmental practices as applied to Italian construction sites.

Module 10 - Sustainable techniques, Graduate student presentations, and lessons learned

### **Evaluation of Grades**

Class participation in discussions	20%
Daily homework assignments	40%
Building Rating Evaluations	30%
Completion of class survey	<u>10%</u>
	100%

### **Grading Policy**

Percent	Grade	Grade Points
93-100	A	4.00
90–92.9	A-	3.67
87-89.9	B+	3.33
83-86.9	B	3.00
80-82.9	B-	2.67
77-79.9	C+	2.33
73-76.9	C	2.00
70-72.9	C-	1.67
67-69.9	D+	1.33
63-66.9	D	1.00
60-62.9	D-	0.67
0-59.9	E	0.00

More information on grades and grading policies is here:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### **Class Attendance and Make-Up Policy**

The students are responsible to be present for all class lectures and tours. Class assignments shall be completed at the prescribed deadlines.

Requirements for class attendance and make up exams, assignments and other work in this course are consistent with the university policies that can be found at:

(<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>)

### **Students Requiring Accommodations**

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

### **Course Evaluation**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

### **Class Demeanor**

Class tours will include religious and historic sites. As such, appropriate attire and demeanor must be maintained.

As lodging will be shared with other students, appropriate and respectful behavior is to be expected. Only registered students in the class will be permitted in the lodging areas.

Students are expected to actively participate in all discussions. However, disruptive behavior will not be allowed. Students that create a disturbance to the class, are absent, violate University policies, or provide a security risk will be returned to the United States at their own expense.

### **Materials and Supplies Fees**

As a Study Abroad course, you must be registered with the UF International Center at:

[https://www.abroad.ufic.ufl.edu/index.cfm?FuseAction=Programs.ViewProgram&Program\\_ID=12696](https://www.abroad.ufic.ufl.edu/index.cfm?FuseAction=Programs.ViewProgram&Program_ID=12696)

Course fees related to the Study Abroad program will be assessed by the UF International Center to provide for lodging, transportation within Italy, and tours related to the course. Travel to and from Italy and all other expenses are the responsibility of the student.

### **University Honesty Policy**

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conducthonor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

### **Counseling and Wellness Center**

Contact information for the Counseling and Wellness Center:

<http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.