

ENGR Study Abroad - Short Term Summer Course in **Prague - Czech Republic** ENCE489 (3credits) Technical Elective: **Sustainability & Smart Cities**

Program # 11356: <http://globalmaryland.umd.edu/offices/education-abroad/program/11356>

Program Director: Prof. Dimitrios Goulias



INTRODUCTION

On this program, you will explore the different approaches for the development of sustainable and smart cities. The course will address (i) the broad and complex "system" point of view of sustainability and smart cities, as well as, (ii) the system engineering, system decomposition, and design/technical aspect. We will examine smart cities' building blocks, such as "smart streets" or "smart buildings" as a matter of pragmatic and feasible level of details. Additionally, we will explore the use of tools needed for developing real projects focusing on smart cities and sustainability, along with real case studies. The course includes several site visits related to "smart cities" components, sustainable infrastructure components, as well as cultural and engineering marvels in the city of Prague and city of Pisek.

Course Highlights

- Principles of Smart Cities & Sustainable Infrastructure design by international renowned experts;
- Technical, cultural & social principles for the design of smart cities and sustainable infrastructure in real case studies projects.
- Work alongside Czech students for learning and developing smart cities and green infrastructure projects;
- Fulfill a 3 credit upper elective degree requirement in a unique cultural setting (ENCE489);
- Site Visit & Trips: most important cultural & civil engineering marvels in the Prague - Pisek Region.

Course Schedule (tentative): May 18- May 30, 2016

Class Eligibility: open to any major.

Class Size: 25 maximum (on a first come bases)

Program fee: \$3,520

Financial aid & Scholarships available:

College of Engineering study abroad: Ramsey Jabaji, Assistant Director, rjabaji@umd.edu , 301-405-0234

University Study Abroad: <http://globalmaryland.umd.edu/offices/education-abroad/scholarships>
<https://globalmaryland.umd.edu/offices/education-abroad/financial-aid>

Application deadlines: applications open for Summer 2016 from December 1, 2015 to March 1, 2016.