



**Global Engagement**

Valencia, Spain

Valencia, Spain

**Ens veien a València**

**Nos vemos en Valencia  
See you in Valencia**

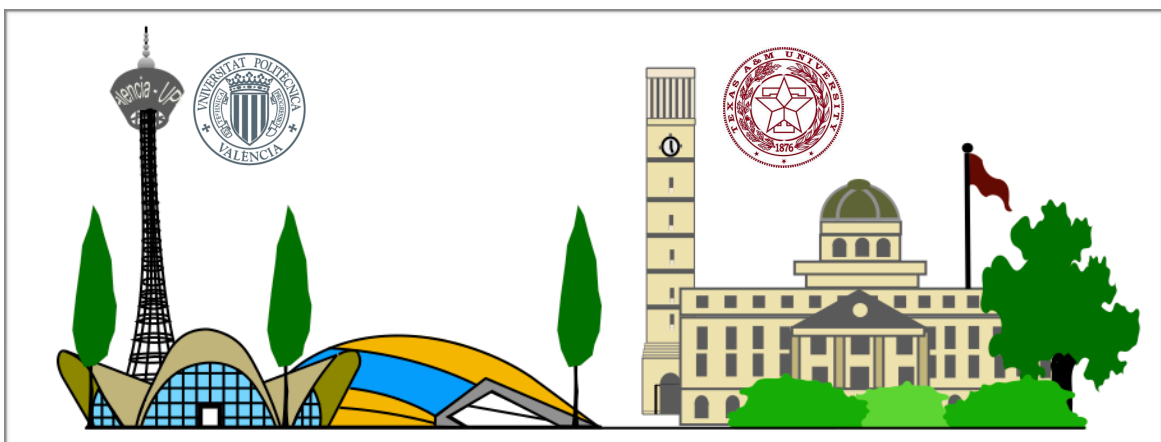
# GLOBAL ENGAGEMENT

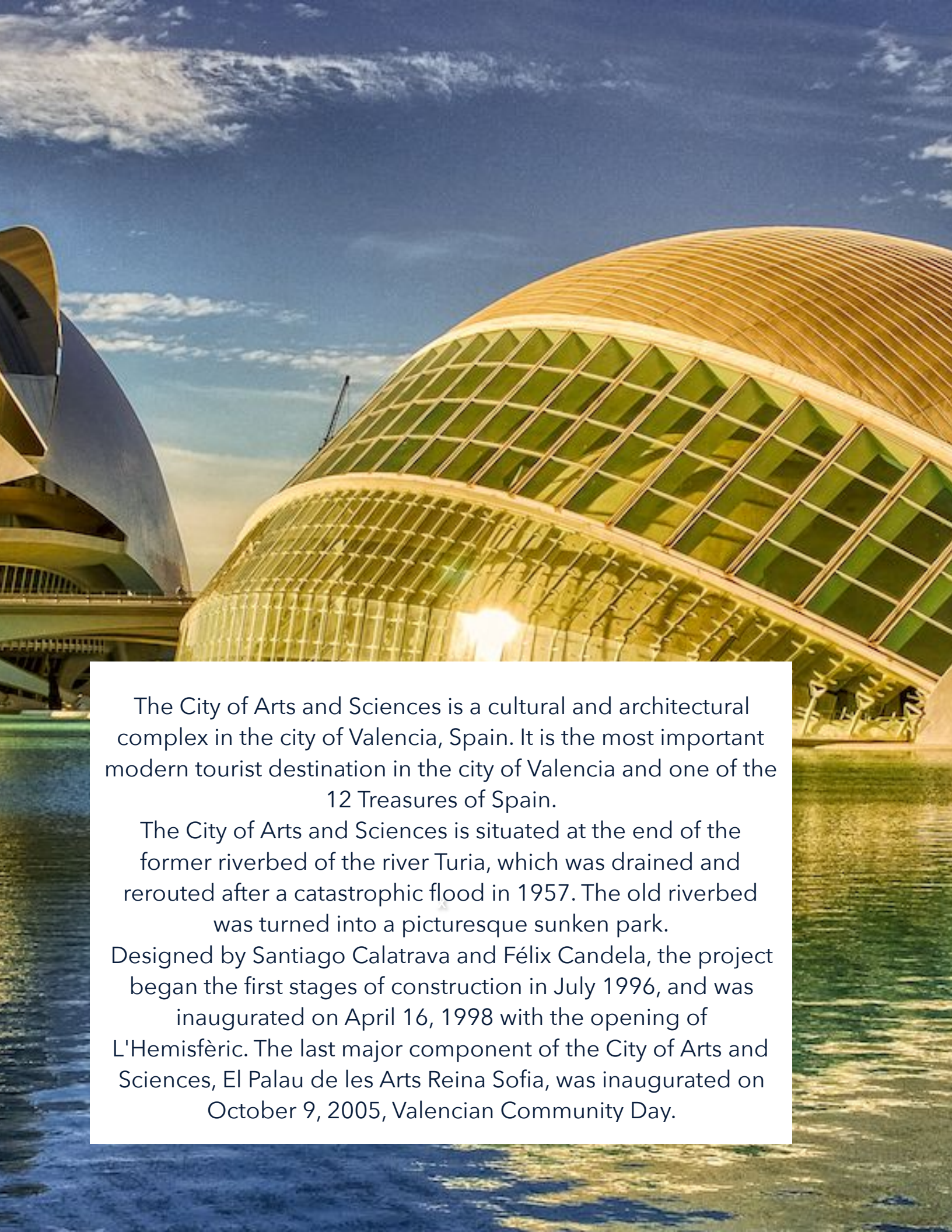
## Texas A&M University and the Valencia Polytechnic University (UPV)

A Summer program for Biological & Agricultural Engineering (BAEN), Chemical Engineering (CHEN), Agricultural Systems Management (AGSM), and Nutrition and Food science (NFSC) students.

The proposed global engagement initiative is designed to provide 21st century education to students in Engineering, Food Science, and Agricultural Business Management fields. The Mission is to provide valuable experiences to TAMU students focusing in part on the future domains of Food Science and Engineering education. Through culture awareness and creativity, our students will improve technical and soft skills essential to compete in a globally integrated society. The students will learn the most recent

advances in food engineering and technology in the area of enginomics, innovations in food engineering, cultural awareness, and social responsibility. Students will understand how food science and engineering impacts new knowledge and tools to excel in a highly-competitive global economy and changing markets and consumer needs. TAMU students will interact with Spanish undergraduate peers as part of multidimensional teams. This experience will prepare the students to succeed in international careers.





The City of Arts and Sciences is a cultural and architectural complex in the city of Valencia, Spain. It is the most important modern tourist destination in the city of Valencia and one of the 12 Treasures of Spain.

The City of Arts and Sciences is situated at the end of the former riverbed of the river Turia, which was drained and rerouted after a catastrophic flood in 1957. The old riverbed was turned into a picturesque sunken park. Designed by Santiago Calatrava and Félix Candela, the project began the first stages of construction in July 1996, and was inaugurated on April 16, 1998 with the opening of L'Hemisfèric. The last major component of the City of Arts and Sciences, El Palau de les Arts Reina Sofia, was inaugurated on October 9, 2005, Valencian Community Day.

# Where are we going?



## VALENCIA, SPAIN

The port city of Valencia lies on Spain's southeastern coast, where the Turia River meets the Mediterranean Sea. It's known for its City of Arts and Sciences, with futuristic structures including a planetarium, an oceanarium and an interactive museum. Valencia also has several beaches, including some within nearby Albufera Park, a wetlands reserve with a lake and walking trails.



**Official languages:** Valencian and Spanish

**Capital:** Valencia

**Population:** 4,964 million (2018)



## VALENCIA POLYTECHNIC UNIVERSITY - UPV

The Polytechnic University of Valencia (UPV) is a Spanish university located in Valencia, with a focus on science and technology. It was founded in 1968 as the Higher Polytechnic School of Valencia and became a university in 1971, but some of its schools are more than 100 years old.



The UPV consists of three campuses: Valencia, Gandia and Alcoy and 14 schools: Business Administration and Management, Fine Arts, Polytechnic School of Alcoy, Polytechnic School of Gandia, Agricultural Engineering, Computer Science, Architecture, Building Management, SCivil Engineering, Design Engineering, Engineering in Geodesy, Cartography and Surveying, Industrial Engineering, Rural Environments and Enology, and Telecommunications Engineering.

The university offers 48 bachelor's and master's degrees, and 81 doctoral degrees.



**Academic staff** - 2,600

**Administrative staff:** 1,700

**Students** 37,800

**Website:** [www.upv.es](http://www.upv.es)

# Summer Courses



We are offering two course (6 hours) out of four courses offered

## Engineering students:

**BAEN/CHEN-422** – Unit Operations in Food Processing (Instructor: Moreira) – students learn the application of engineering principles to design several unit operations common in the food industry including pipeline and pump design, freezing, drying, frying, and thermal processing

**BAEN-427** – Engineering Aspects of Packaging (Instructor: Castell-Perez) – students learn the principles of food packaging design, packaging materials and their applications, shelf life calculations, environmental issues.

## Non-engineering students:

**AGSM/NFSC-315** - Food Processing Engineering Technology - Part 1 (Instructor - Castell-Perez) – introduction to engineering principles applied in the food industry (energy, heat and material balances, heat transfer, psychrometrics)

**AGSM-417** - Food Processing Engineering Technology - Part 2 (Instructors - Castell-Perez & Moreira) - emphasis on freezing, drying, refrigeration, and thermal processing.


**BAEN - 485** - Option for those students any of the courses above.

## COST

**Program fees:** Housing in shared apartments, Tours, Excursions, Group Meals, Coordination and Administration, Faculty Expenses, Cultural Insurance Services International (CISI), Administrative Fee, Miscellaneous ~ \$4,300 (depends on the number of students)

**Not included in Program costs are:** Tuition & Fees (in-state resident for 6 credit hours), International Airfare, Passport/Visa (if not previous obtained), Meals (not included in program fee)

# Universitat Politècnica de València HERE. TODAY. TOMORROW

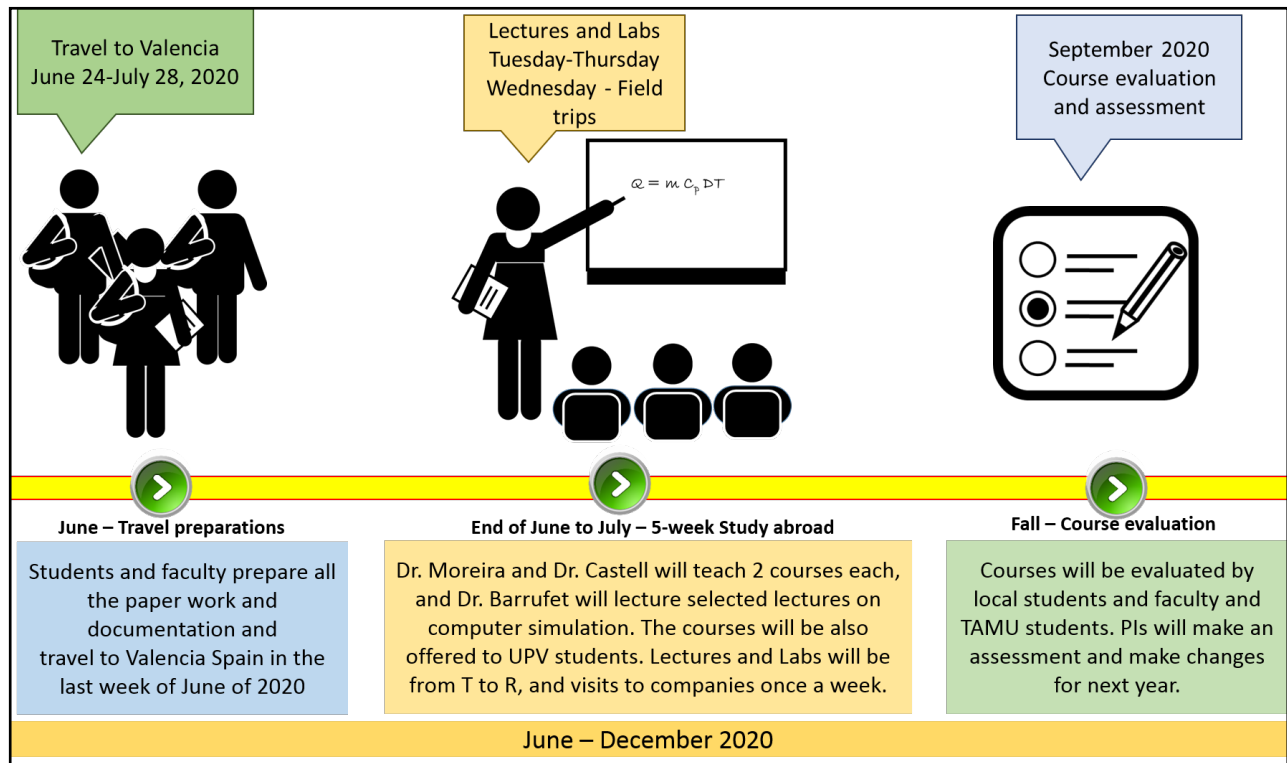
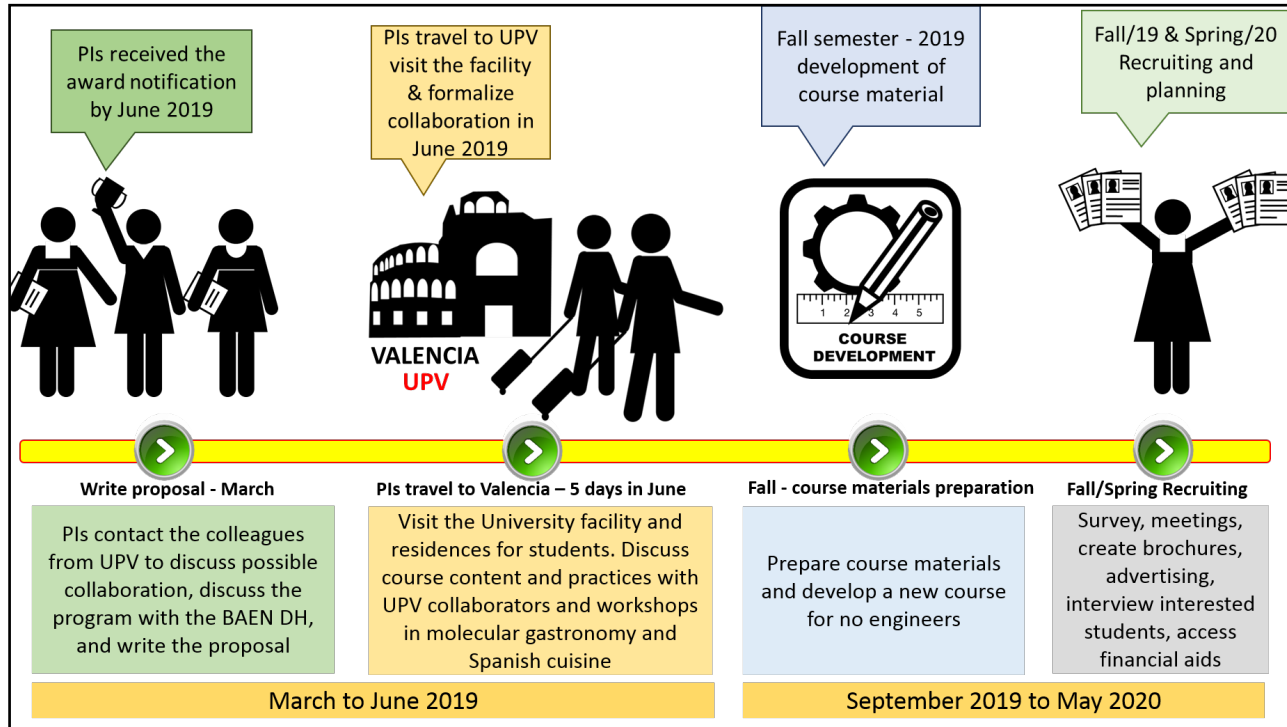


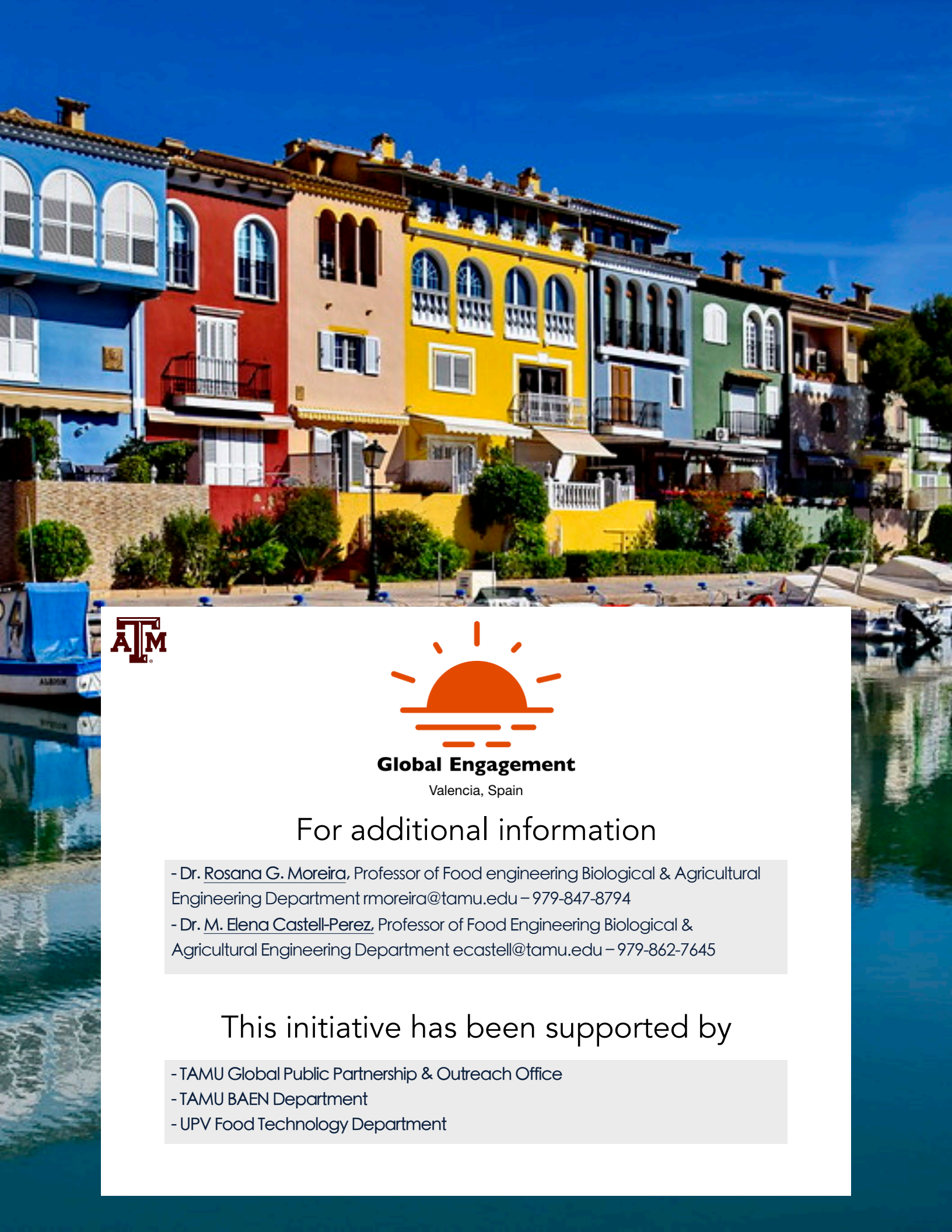
The courses will be taught at the Polytechnic University of Valencia (UPV) , a prestigious public University of Spain. As part of the courses structure, students will attend lectures and practical sessions held at the pilot plant facilities of the Department of Food Technology, visit local food processing industries (for instance, wine, olive oil and several processed foods) and participate in two hands-on workshops on Molecular Gastronomy and Spanish Cuisine (e.g., *Paella*) uniquely designed for students to learn-by-doing. The workshops will be offered by two Food Engineering Professors from the UPV.



UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

# TIMELINE





## Global Engagement

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### For additional information

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### This initiative has been supported by

- TAMU Global Public Partnership & Outreach Office
- TAMU BAEN Department
- UPV Food Technology Department