

**Bridging program for non-French speaking students**

# POLYTECH ORLÉANS

[www.polytech-orleans.fr](http://www.polytech-orleans.fr)  
study in France



the  
School of  
Engineering  
of the  
University of  
Orléans



CONFERENCE DES  
GRANDES ECOLES



# Bridging program for non-French speaking students

## Program MUNDUS



The Polytech Orléans MUNDUS program is dedicated to non-French speaking students to become an engineer in one of the four following fields:

- **EO - Engineering in Electronics and Optics**
- **ICM - Design, Material and Mechanical Engineering**
- **TEAM - Energy engineering for Energy, Aerospace and Automotive sectors**
- **GCE - Civil engineering and environment**

This selective training program is opened to graduated students. The candidates have to have excellent academic records in one of the aimed scientific domains, a good level of English and already have a preliminary training to French language about 500 hours.

The MUNDUS Bridging Program is composed of 3 years :

- a preparatory year with intensive French language classes enables students to master French language and culture, while discovering engineering programs in scientific specialization,
- the last two last years of the engineer degree curriculum are opened to students who pass French test and specialization exams.

At the same time as the engineering degree, it is possible to prepare a MBA or a specialized scientific Master's degree directed to PhD research.

<b>3rd Year</b>	MUNDUS <b>EO</b>	MUNDUS <b>ICM</b>	MUNDUS <b>TEAM</b>	MUNDUS <b>GCE</b>
	*Scientific Project for validating Benke (3+3 Program) <b>TCF mid-June (French Test)</b> Industrial Training (1 to 2 months)			
<b>4th Year</b>	<b>EO</b>	<b>ICM</b> <b>MS MSM MEC</b>	<b>TEAM</b>	<b>GCE</b> <b>GEN TPA COD</b>
	Industrial Training (2 to 4 months) from May (TEAM,ICM) or from June (EO, GCE)			
<b>5th Year</b>	<b>VE AA IP PH</b>	<b>MS MSM MEC</b>	Choose 4 modules among 8	<b>GEN TPA COD</b>
	Industrial Training (4 to 6 months) from mid-March			

(\*) the MUNDUS program may be opened to undergraduated students from foreign universities who have signed a cooperation agreement with Polytech Orléans (program 3+3).

# Bridging program for non-French speaking students

## Ecotechnologies Electroniques et Optiques (EO) / Electronics & Optics Engineering

*Keywords : laser, plasmas, nanotechnologies, optical systems, lighting, micro electronics, embedded systems, signal and image processing, intelligent sensors, metrology*

4 options to be chosen at the end of the 4th year :

**Vision Embarquée (VE) / Embedded Vision**

**Architectures Autonomes (AA) / Standalone Architecture**

**Ingénierie Plasma (IP) / Plasma**

**PHotonique (PH) / Photonics**



## Innovation en Conception et Matériaux (ICM) / Design, Material and Mechanical engineering

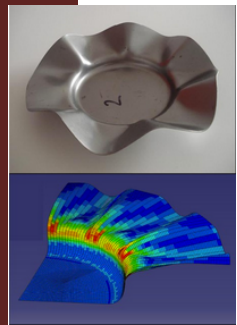
*Keywords : mechanics, mechatronics, materials, design, numerical simulation, automatic control systems*

3 options to be chosen at the end of the first semester of 4th year :

- **Matériaux des Structures (MS) / Structural Materials**

- **Modelisation et Simulation Mécanique (MSM) / Mechanical Modeling & Simulation**

- **Mécatronique et Eco Conception (MEC) / Mechatronics & Eco-design**



## Technologies pour l'Energie, l'Aérospatial et la Motorisation (TEAM)

### Energy engineering for Energy, Aerospace and Automotive sectors

*Keywords : aerodynamics, propulsion, energetic systems, sustainable energy, energetic efficiency, internal combustion engines, hybrid vehicles*

During the 5th year, 4 modules to be chosen among eight following ones according to the professional project: **Energetics, Buildings energetic efficiency, Turbulences, Combustion & applications, Aeroacoustics & aeroelasticity, Gaz dynamics, Engines, Control & hybrid vehicles.**



## Génie Civil et Environnement (GCE) / Civil engineering and environment

*Keywords : civil engineering and development, public works, materials for sustainable construction, sustainable buildings, geo-environmental engineering*

3 options to be chosen at the end of the first semester of 4th year :

**Ingénierie en Géo-ENvironnement (GEN) / Geo-Environmental Engineering**

**Travaux Publics et Aménagement (TPA) / Public Works and Landscaping**

**COstructions Durables (COD) / Sustainable buildings**



# Bridging program for non-French speaking students

## 5 Good reasons to become a Polytech French speaking engineer



French is spoken by over **274 million** people in the world, it is the **5th most spoken language** on the planet (4<sup>th</sup> on the internet) and the only one with English to be spoken on the **five continents** with the strongest progression (+7% since 2010). French is the second language used by International Organizations.  
<http://www.francophonie.org/>

### Scientific excellence

The school polytechnical teachings are mainly delivered by researchers-lecturers who come from worldwide renowned laboratories. Consequently Polytech Orléans engineers reach a high level in sciences while developing their capacity to innovate and get ahead.



### Companies at the heart of the school

Along their training engineering students carry out projects and do internships in partner companies. Their internships take place at the end of their 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> year, altogether amounting to 33 weeks.



### Extra-curricular activities

Our students develop their engineering social skills by taking part in extra-curricular and sport or cultural activities of 50 associations coordinated by the school Students' Office. The association **ViaPolytech** keeps Polytech alumni connected to each other on social network.

### Exceptional surroundings

One hour's drive (or by train) south of Paris, on a wooded campus of Orléans university (the French *Oxford*), 15 minutes from the city center, the school provides a pleasant working environment (recent buildings, outstanding scientific equipment), as well as uncommon life surroundings (numerous and affordable public and private housing).



<http://www.univ-orleans.fr/polytech>

<http://www.univ-orleans.fr/en/polytech/polytech-orleans-engineering-faculty>