Application deadline
There are two application deadlines depending on the wished admission:
- admission with an Erasmus Mundus scholarship: January 31st.
- admission as self-paying student: April 15th.

Admission and application requirements are available on http://www.em3e-4sw.eu

Contact and Information
For any question about EM3E-4SW, please contact us at: em3e-4sw-project@umontpellier.fr

Partners
Université de Montpellier (France) - coordinating university
Université Toulouse III Paul Sabatier (France)
University of Chemistry and Technology Prague (Czech Republic)
Universidade Nova de Lisboa (Portugal)
Universidad de Zaragoza (Spain)
University of Twente (Netherlands)

Associated partners
Università della Calabria (Italy)
Katholieke Universiteit Leuven (Belgium)

EM3E-4SW is supported by the European Commission, the European Membrane Society (EMS), the European Membrane House (EMH) and a large international network of industrial companies, research centers and universities related with membrane science.
Membrane engineering is a growing field providing solutions in different areas: energy, environment, biotechnologies, food, health, nanotechnologies and nanomaterials. New opportunities in different areas are constantly appearing.

EM3E-4SW offers an advanced education programme related to membrane science and engineering at the interface between material science and chemical engineering, and focused on specific applicable fields. Despite a favorable growth rate in the field of membrane technology, EM3E-4SW is the only master fully devoted to this area.

Programme Details
The programme spreads over 2 years (120 ECTS) of normal study. The courses provided in the 4 semesters, S1-S4, bridge different scientific domains like material science, physics & chemistry, engineering & processes, while keeping a focus on relevant applications of membranes in food and health industry, industrial and chemical processing, energy, environmental control, pharmaceutical industry, biomedical applications, etc.

Three possibilities of specialization
- Biotechnologies, Food and Health,
- Nanosciences and Nanotechnologies,
- Energy and Environment.

Around 30 students per edition (both non-European and European students altogether).

All students study in three different top universities and grow in a multicultural and multilingual environment, in three different European countries, surrounded by students and teachers trained in the best universities.

All courses are taught in English.

After achievement of the curriculum, students are graduated with a multiple Master degree in 'Membrane Engineering' - one for each university attended - and recognized in each partner country.

Admission criteria
The Master course is open to non-European and European students. Candidates must hold a first cycle degree in Chemistry, Physics, Materials Engineering, Chemical Engineering, Bio-chemical Engineering, or equivalent degrees in one of the previous domains. Applicants are evaluated on the basis of their academic grades, professional experience, motivation letter, recommendation letters and language skills.

Tuition and registration costs
Non-European students: 8 000 €/year. European students: 4 000 €/year.

Grants
All students can apply to an Erasmus Mundus scholarship (2 years). Their number is limited. Amount: 22 000 €/year non-European students and 17 000 €/year European students.

About Erasmus Mundus
The EM3E-4SW master is labelled by the European commission as Erasmus Mundus Master from 2011. Erasmus Mundus supports top-quality European Master’s Courses and enhances the visibility and attractiveness of European Higher Education in third countries.

Erasmus Mundus
Master in Membrane Engineering for a Sustainable World

Membrane Science

Job in industry

PhD

Registration / Integration

Université de Montpellier - FRANCE

Fundamentals of Material Science and Chemical Engineering

Université de Montpellier & Université Toulouse III - FRANCE

Year 2

S4

Biotechnologies, Food and Health

Universidade Nova de Lisboa - PORTUGAL

Nanoscience and Nanotechnology

Universidad de Zaragoza - SPAIN

Energy and Environment

University of Twente – THE NETHERLANDS

Fundamentals of Technologies and Modeling

University of Chemistry and Technology Prague – CZECH REPUBLIC

S3

S2

S1

Year 1

Sustainable World

Programme Details

Objectives of the EM3E-4SW programme
To expand knowledge and educate students in Membrane Science in order to provide outstanding students to be inserted in the industry or in academic research.

To promote excellence, innovation, mobility and diversity in high-quality courses related to membrane science and engineering at the interface between material science and chemical engineering.

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