

Annex 1

DOUBLE DEGREE PROGRAMME (valid for students who will start the course from the Academic Year 2018/19)

The two years Double Degree Programme, SWIMinCHEM, foresees 120 ECTS (each credit being equivalent to 25 – 30 hours).

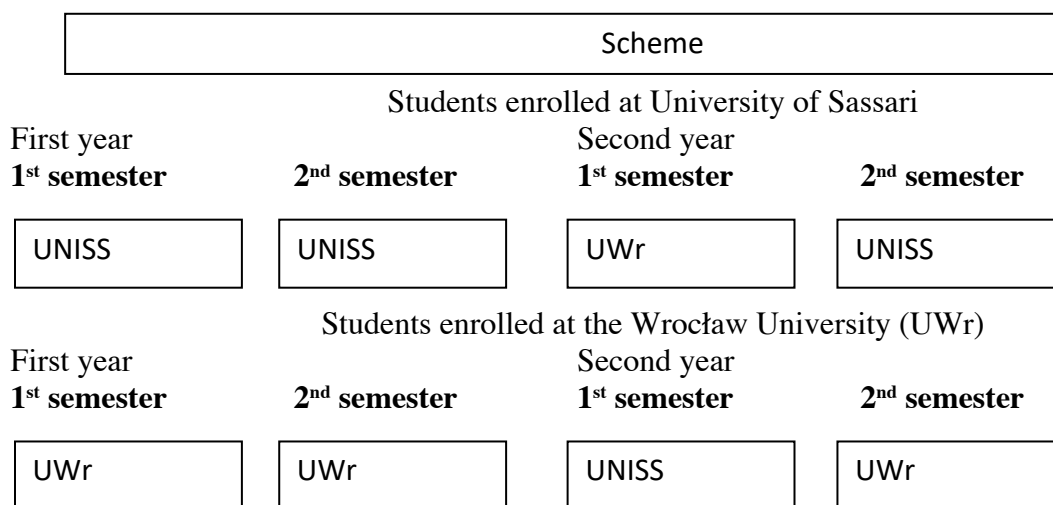
Student will simultaneously gain two university titles:

one is the Italian title “*Laurea Magistrale in Scienze Chimiche (classe LM-54)*” awarded by the University of Sassari;

the other is the Polish title “*Magister chemii*” (*Master of Chemistry*) awarded by the University of Wrocław (UWr).

The master training runs over a period of four semesters.

To obtain the double degree, student will have to attend courses, pass exams and spend minimum one semester in the partner University, according to the following scheme:



UNISS STUDY PLAN		
1st Year		
First semester		
Title	Subject	ECTS
COMPULSORY	Analytical Chemistry	6
COMPULSORY	Physical Chemistry	6
COMPULSORY	Organic Chemistry	8
COMPULSORY	Advanced Macromolecular Chemistry	8
COMPULSORY	Foreign language (English)	4
Second semester		
Title	Subject	ECTS
COMPULSORY	Inorganic Chemistry	6
COMPULSORY	Spectroscopy and structural chemistry	6
COMPULSORY	Applied electroanalytical chemistry	6
COMPULSORY	Organometallic chemistry	6
COMPULSORY	Green Organic Chemistry OR Archeometallurgy	6
2nd Year		
First semester		
Title	Subject	ECTS
OPTIONAL	Optional**	12
COMPULSORY	MSc research project	18
Second semester		
Title	Subject	ECTS
COMPULSORY	Environmental analyses and environmental law OR Materials, Technologies and Conservation of Cultural Heritage	4
COMPULSORY	Project and management of research activity and intellectual property defense	2
COMPULSORY	MSc research project	16
COMPULSORY	Thesis defence	6
		120

WROCLAW STUDY PLAN		
1st Year		
First semester		
Title	Subject	ECTS
COMPULSORY	Specialization course I***	15
COMPULSORY	Advanced experimental methods	8
COMPULSORY	Informatics II	7
Second semester		
Title	Subject	ECTS
COMPULSORY	Specialization course II***	15
COMPULSORY	Molecular modeling	11
COMPULSORY	Foreign language (PDW II° - 3)	4
2nd Year		
First semester		
Title	Subject	ECTS
OPTIONAL	Optional courses*	15
COMPULSORY	Physical Chemistry	6
COMPULSORY	MSc research project	10
Second semester		
Title	Subject	ECTS
COMPULSORY	Entrepreneurship and protection of IP	2
COMPULSORY	Optional courses (social sciences)	5
COMPULSORY	MSc Project (PDW II° - 5)	16
COMPULSORY	MSc Seminar (PDW II° - 7)	6
		120

3rd semester for Wroclaw students at Sassari

Students enrolled at the University of Wroclaw, and participating to the SWIMinCHEM, will spend abroad the 3rd semester to gain 31 ECTS: 21 ECTS will be gained by exams of courses at University of Sassari: **one compulsory course, Physical Chemistry- 6 ECTS**), and optional courses (for a minimum of 15 ECTS) chosen within the list reported below, and 10 ECTS by traineeship related to the preparation of the MSc Thesis.

* Optional courses		
Title	Subject	ECTS
OPTIONAL	Sensors for Analytical Chemistry	4
OPTIONAL	Physics of Ionizing Radiations	4
OPTIONAL	Metals in medicine	4
OPTIONAL	Multistep Synthesis and Organic Materials	4
OPTIONAL	Polymers in the real world	4
OPTIONAL	Physical Methods for Cultural Heritages	4

3rd semester for Sassari students at Wroclaw

Students enrolled at the University of Sassari, and participating to the SWIMinCHEM, will spend abroad the 3rd semester to gain 30 ECTS: 12 ECTS will be gained by exams chosen within the list reported below, and 18 ECTS by traineeship related to the preparation of the MSc Thesis.

** Optional courses		
Title	Subject	ECTS
OPTIONAL	Catalysis and Green Chemistry	6
OPTIONAL	Combinatorial Chemistry	4
OPTIONAL	Molecular magnetism	4
OPTIONAL	Computer design and modeling of new materials	3
OPTIONAL	Bioorganic chemistry	4
OPTIONAL	Molecular physical chemistry	5
OPTIONAL	Chemistry in action: ideas and applications	3

This list of optional courses is also valid for students who started the course in 2017/18 and will spend abroad the semester September 2018/February 2019.

*** Students enrolled at University of Wrocław which follow the course of *Chemistry* after completing the first year may join the course of *Chemia - studia międzynarodowe*. In this case, an adequate choice of optional courses will be required.