

INTERNATIONAL PROGRAM

Resilience of logistics systems
and applications



PROGRAM

Units	ECTS (European Credit Transfer System) ^a	ECTS	ECUE	CM (lectures)	TD (tutorials)	Total hours/ ECUE (including students personal work)
Unit 1: Sciences applied to the specialty	14	2	ECUE 1.1: Crisis management and global risks	15	-	50
		2	ECUE 1.2: Logistics and resilience to major disasters	15	-	50
		2	ECUE 1.3: Building a sustainable and resilient urban logistics	15	-	50
		2	ECUE 1.4: Improving port competition processes and strategies	15	-	50
		2	ECUE 1.5: Crisis management, mathematical modelling and humanitarian logistics	15	-	50
		2	ECUE 1.6: Case studies	-	30	50
		1	ECUE 1.7: Modeling and simulation tool	-	12	25
		1	ECUE 1.8: Sustainable management	10	5	25
Unit 2: Humanities	7	2.5	ECUE 2.1: French for beginners	-	20	60
		1	ECUE 2.2: French and local culture (visits and field trips)	-	12	25
		2.5	ECUE 2.3: Preparation to DELF exam	-	30	60
		1	ECUE 2.4: Intercultural competence	8	-	25
Unit 3: Project	5	1	ECUE 3.1: Methodology: introduction to research and project management	-	8	28
		4	ECUE 3.2: Project	-	8	100
Unit 4: Environment and Society	4	1	ECUE 4.1: Climate and biodiversity	-	10	25
		3	ECUE 4.2: Student Involvement	-	6	77
	30	30	Total	93	141	750

COURSE DESCRIPTION



ECUE 1.1: CRISIS MANAGEMENT AND GLOBAL RISKS

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The course will open with a serious game: «Resilience: Managing facing crisis» before moving on to a more theoretical approach to the subject.



This course focuses on operational research, a highly relevant field for enhancing response efforts to technological, natural, and health crises. Several case studies related to technological and natural disasters will be examined, with a particular focus on data processing.



ECUE 1.3: BUILDING A SUSTAINABLE AND RESILIENT URBAN LOGISTICS

The course will focus on building resilient urban logistics, short food supply chains and port strategy with a particular emphasis on Le Havre.

ECUE 1.4: IMPROVING PORT COMPETITION PROCESSES AND STRATEGIES

The course will analyze port improvement and competitiveness strategies, using the transition of the port of Le Havre to cruise tourism as a case study.



ECUE 1.6: CASE STUDIES

Case studies in logistics offer valuable insights into how companies and industries have addressed specific challenges, implemented innovative solutions, or enhanced efficiency within their supply chains.



ECUE 1.5: CRISIS MANAGEMENT, MATHEMATICAL MODELLING AND HUMANITARIAN LOGISTICS

This course will use mathematical modelling and optimization techniques for a variety of problems including transportation, production and planning/manufacturing.



ECUE 1.7: MODELLING AND SIMULATION TOOLS

The course will include an introduction to simulation software, allowing students to apply theoretical knowledge to real-world scenarios.



ECUE 1.8: SUSTAINABLE MANAGEMENT

This course will focus on innovation and ecological transition.

ECUE 2.1 AND 2.3: FRENCH FOR BEGINNERS AND PREPARATION TO DELF EXAM

To promote the acquisition of French, a 50-hour course will be offered to students who do not speak French or have basic knowledge of the language, allowing them to deepen their proficiency through intensive lessons.

Students who wish may take the DELF exam (at their own expense). Professors from the Department of French Language at Université Le Havre Normandie will teach the language or assist students in improving their skills.



Visiting Le Havre:

Our city is a coastal one, located in the Normandy region of northern France. It sits on the banks of the Seine River where it meets the English Channel, making it an important maritime hub. Founded in 1517 by King Francis I, Le Havre's port

ECUE 2.2: FRENCH AND LOCAL CULTURE (VISITS AND FIELD TRIPS)



has played a significant role in French trade and commerce, and today it is the second-largest port in France.

The city is known for its modern architecture, much of which was designed by the famous architect Auguste Perret after World War II. In 2005, the city centre of Le Havre was listed as a UNESCO World Heritage site for its innovative post-war design.



D-DAY experience at Colleville-sur-Mer cemetery:

Normandy is perhaps best known internationally for its pivotal role in World War II. On June 6, 1944, known as D-Day, Allied forces launched Operation Overlord, a massive amphibious invasion to liberate Nazi-occupied Europe. The Normandy landings were the largest seaborne invasion in history and marked the beginning of the end of

World War II in Europe. The beaches of Normandy—Omaha, Utah, Juno, Sword, and Gold—are now iconic sites of historical memory.

Visiting Rouen:

The capital of Normandy, is a journey through centuries of French history, culture, and architecture. Nestled on the banks of the Seine River, Rouen is known for its medieval charm, half-timbered houses, and connections to famous historical figures like Joan of Arc and Claude Monet.



Visiting Versailles:

Since 1979, the Palace of Versailles has been listed as a World Heritage and is one of the greatest achievements in French 17th century art. Louis XIII's old hunting pavilion was transformed and extended by his son, Louis XIV, when he installed the Court and government there in 1682. A succession of kings continued to embellish the Palace up until the French Revolution. Today the Palace contains 2,300 rooms spread over 63,154 m².



ECUE 2.4: INTERCULTURAL COMPETENCE

It is crucial for students to develop the intercultural skills that will enable them to become aware of and adapt to the different cultures with which they will be dealing at a professional level. This course will introduce the intercultural

approach toward diversity, intercultural individual and collective competences development and management of multicultural teams.

ECUE 3.1: INTRODUCTION TO RESEARCH AND PROJECT MANAGEMENT

To successfully complete their Industrial and Logistics Project, students will take a methodology course covering interpersonal management, project management, and oral presentation skills.



ECUE 3.2: PROJECT

The Industrial and Logistics Project immerses students in a professional setting. By working on real projects, or those proposed by companies, students will collaborate in groups and independently throughout the semester to propose solutions to the presented problems, applying the theories and tools learned in class. At the end of the

semester, the groups will present their solutions to a jury and their classmates.



ECUE 4.1: CLIMATE AND BIODIVERSITY

The company “Symbiose”, pioneer in aquaponics in Le Havre, will share its experience in logistics and entrepreneurship. The course will focus on the interactions between climate change and biodiversity, emphasizing

on the impacts on ecosystems and species diversity, while presenting solutions such as aquaponics to address environmental challenges.

ECUE 4.2: STUDENT INVOLVEMENT

Student involvement in student and civic life allows students to actively engage in activities beyond their academic studies, contributing to their communities and gaining valuable skills and experiences. This involvement can enhance personal development, foster social responsibility, and provide practical experience in leadership and teamwork. For instance, students will visit charitable organizations and learn how they operate locally and nationally.



isel_du_log@univ-lehavre.fr

Institut Supérieur d’Études Logistiques
11 Quai Frissard - 76000 Le Havre
+33 (0)2 32 74 49 00

isel.univ-lehavre.fr  