



SYLLABUS

Global Supply Networks & Manufacturing Culture in Latin America Montevideo, Uruguay, May 8 to May 26, 2023

The course provides students with the fundamentals of international supply chain management with a special focus on Latin America and Uruguay. It features a 3-week study visit to Uruguay where students can place their understanding of those concepts within a cultural context.

Course details

The 3-credit course is taught in English. It involves individual work, teamwork, lectures and company visits, allowing students to complete an in-depth analysis of the current global supply networks and manufacturing culture in Latin America with Uruguay as a reference point.

The Program consists of:

1. **Lectures**: on supply chain management (including SCM-related simulations), forecasting, logistics & distribution strategies, and warehousing.
2. **Field study & trips**: includes two company visits, and two sightseeing activities (daytrips to Punta del Este and Colonia del Sacramento (a UNESCO World Heritage site)).
3. **Case study Project**: The program has a group project component, in which a multidisciplinary team must analyse a case study (this ends with a group presentation and a written report). There is also a personal project in which students choose one of the companies visited and focus on a problem/opportunity that the firm faces (this ends with a short written report). Business and engineering perspectives related to the national and global industry must be considered in the company visits and in the presentation.
4. **Final examination**: Students are required to complete a multiple choice test about all the topics covered during the lectures. This examination also has an individual and team component.

Students

The course is designed primarily for engineering students, in their last two years, in any major: Industrial, Mechanical, Electrical, Civil, Computer Science, etc. It also applies to business students. This mix between Engineering and Business, UM and international, allow students to learn from the diversity of cultures and *modii operandi*.

Faculty

UM Faculty are responsible for teaching, company visits, projects and students' evaluations.

Program outline

- I. Introduction
- II. Fundamentals of production planning and manufacturing
- III. Logistics and supply chain management
- IV. SCM Simulations
- V. Invited Speakers
- VI. Company visits

Schedule

Classes are in the afternoon, Monday through Friday, starting on Monday, May 8th and finishing on Friday, May 26th. Some of the company visits will be during the morning, as well as other cultural activities. The day trips to Punta del Este and Colonia will be during the weekends.

Evaluation

The evaluation of student performance is based on four components

- I. Knowledge from lectures – Final examination (45%)
- II. Global Engineering challenge report (15%)
- III. Project report and group presentation (40%)