



EC/ES/PP 364 - NANTES GREEN CAPITAL : A MODEL FOR UNDERSTANDING THE GREEN ECONOMY
IES Abroad Nantes

DESCRIPTION:

The aim of this course is to show how, over the last few years, territories have modified and created a new resilient local policy in response to the urgency of global climate change. The aim of the course is to put students in the position of having to choose a local environmental and ecological situation in order to propose solutions. The course will be based on concrete examples presented by students, visits and external speakers. Accompanied by the teacher, students will be encouraged to grasp a problem and carry out in-depth work to understand the complexity of the subject, situate it in the light of contemporary social and environmental challenges, and identify possible solutions.

CREDITS: 3 credits

CONTACT HOURS: 45 hours

LANGUAGE OF INSTRUCTION: Français

INSTRUCTOR: Baptiste Astrade

PREREQUISITES: An interest in societal and economic issues as well as climate change is desirable.

ADDITIONAL COST: none

METHOD OF PRESENTATION:

Course divided into three parts:

- 11 interactive sessions based on readings/viewings on issues relating to environmental policies and climate change. These first four sessions will cover the various themes that may concern a city in its objective to become a resilient and ecological territory. Systematic field visits will complement the classroom discussions.
 - On the basis of the various topics discussed, students will work in groups to choose a Nantes issue in terms of ecology and environmental policies.
- 6 sessions aimed at discovering and applying traditional project management tools (SWOT analysis, problem tree, problematization, drawing up a plan, etc.);
- 4 sessions of group work on the final project and its oral presentation.
 - At the end of the semester, the students will present their work to an audience made up of elected officials from the City and Metropolis of Nantes, as well as professionals they have met during the course.

REQUIRED WORK AND FORM OF ASSESSMENT:

- Participation - 20%
- Final group project - 30% total
 - File - 20%
 - Oral presentation - 10%
- Weekly individual work - 20% total
 - Presentation of a press or academic article - 10%
 - Writing of a critical analysis/summary of a field visit - 10%
- Weekly group work - 30% total
 - SWOT analysis - 15%
 - Mapping of players and actresses - 15%



Participation: Participation includes both class attendance and oral participation. Classes will be based on debates, discussions and visits. Students will be expected to get involved both before and during the course.

Final group project: The assessment of the final group project will be based on the written dossier submitted (understanding of the issues and challenges, ability to synthesize complex subjects, layout and presentation of results, etc.), as well as on the oral presentation given during the last class (public speaking, clarity of presentation, appropriateness of Powerpoint support, etc.).

Format: Written file - 15 pages (+/-10%).

Weekly individual assignments : During the first part of the semester, students will each be required to submit two individual assignments.

- The first consists in presenting to the class, at the start of the session, one of the press or academic articles listed in the bibliography. The aim is to present a summary of the article, but also to highlight its salient points, as well as a few elements of personal analysis.
- The second is a written summary of a site visit, presenting the main points of interest and the issues raised by the visit in terms of urban sustainability.
 - *Format: Written summary - 2 pages (+/- 10%).*

Weekly group work: During the second part of the semester, students will present various project management tools (SWOT analysis and stakeholder mapping) to the class as a whole, based on the bibliography provided. These tools will be applied to the themes chosen by the various groups.

- *Format: Tool presented according to the method studied in class - 1 page.*

LEARNING OUTCOMES:

By the end of the course, students will be able to:

- Identify the major issues and crises concerning climate change and the destruction of biodiversity.
- Develop levers of action for regions, and more specifically cities, in the face of the environmental emergency.
- Understand the link between environmental policies and social inequalities.
- Understand all the aspects and challenges involved in implementing a local public policy on environmental and ecological issues.
- Understand the issues facing a region wishing to become resilient (energy, waste, agriculture, etc.).
- Identify a problem and develop a proposal to meet environmental and social challenges.

ATTENDANCE POLICY:

Attendance at all courses is compulsory. Absences may be excused for valid, documented reasons only. In the event of absence, students have the responsibility and duty to :

- notify the IES Nantes administration and the teachers concerned within 24 hours make up the work missed
- provide proof of absence (e.g. medical certificate)

NB: Absences due to travel or visits from friends or family are not excused.

Absences due to illness or health reasons (including mental health) without medical justification are tolerated for a maximum of 2 days per semester. Obligations a- and b- above must be fulfilled.

Each unexcused absence will lead to a half-letter reduction in the final grade (e.g. B+ will be reduced to B, A to A-) and may also lead to a lower participation grade. Seven unexcused absences in a course will result in an "F" for that course.

Any exam, test, presentation, research paper or other assignment not completed on time will be graded 0/20 (F).

Students who are more than 15 minutes late for an exam (Mid-Term or Final) will not be admitted to the exam and will receive a 0/20 (F) for that exam.

Attendance on field trips is compulsory. If these outings take place in a different time slot from the course, you will be notified in advance and will be expected to attend.

Professors have the authority to mark any student as "absent":

- with a delay of 15 minutes or more
- leaving the course before completion

Multiple and repeated unjustified absences may lead to further disciplinary action, and will be subject to academic review.

CONTENT:

Week	Content	Assignments
Week 1	<p>Introduction: Presentation of the course, objectives, assessment methods and timetable.</p> <p>Course 1: Nantes and sustainable development</p> <ul style="list-style-type: none"> • Climate change and the biodiversity crisis: an observation that calls for a change of model. • Sustainable development: definition and history • The three pillars of sustainable development • Potential levers for territories and cities in the face of environmental challenges. • History of Nantes and ecology. 	<p>The 17 sustainable development goals - <i>UN</i> (website) : Link</p> <p>Sustainable development report - <i>City of Nantes, 2023</i> (file) : Link</p> <p>Introduction to the Brundtland Report "Our Common Future" - <i>World Commission on Environment and Development, 1987</i> (article) : Link</p> <p>The 3 pillars of sustainable development (scientific view) - <i>Développement durable illustré, 2014</i> (video) : Link</p>
Week 2	<p>Course 2: Building the city of tomorrow</p> <p>A resilient and pleasant city for all in the face of global warming. Is it possible to build without pouring concrete? A new way of thinking about urban planning. Giving nature its rightful place in the city.</p> <p>Lesson 3: Tour of urban projects in Nantes for soft mobility (Pont Anne de Bretagne, Parking Gloriette et Petite Hollande, cours 50 otages, etc.).</p> <ul style="list-style-type: none"> • How can we reduce the number of cars in Nantes? • How can we increase the role of sustainable mobility? • What are the difficulties and resistance to these changes? 	<p>Imagining and building the resilient city "A theme debated at the Resilience Forum - <i>Le Monde, 2021</i> (press article) : Link</p> <p>Building without artificialising: metropolises at an impasse - <i>France culture, 2022</i> (podcast) : Link</p> <p>Housing without artificialising land: a surmountable dilemma - <i>Médiapart, 2024</i> (press article) : Link</p> <p>Pre-visit reading :</p> <p>"Le vélo ne concerne pas que les bobos du centre-ville " : Nantes métropole met le grand braquet - <i>Ouest France, 2024</i> (press article) : Link</p> <p>"It's going to be hell": your reaction to the closure of the Anne-de-Bretagne bridge in Nantes - <i>Ouest France, 2024</i> (press article) : Link</p>

Week	Content	Assignments
Week 3	<p>Lesson 4: Reconciling economics and ecology</p> <ul style="list-style-type: none"> - The challenges of the sodeconomy. - The circular economy and reuse. - Green industry: greenwashing or a solution for the future? - Public-private partnerships. <p>Lesson 5: Visit to the Couëron waste treatment and recovery center</p> <ul style="list-style-type: none"> - What kind of waste management is needed for a region like Nantes? - How can transform waste into resources? <p>How can we combine waste management and waste reduction?</p>	<p><i>Advertising green and greenwashing</i> Benoit Cordelier and Pauline Breduillieard, Management Prospective, 2013 (scientific article): Link</p> <p><i>Building: how to make waste</i> <i>A resource</i> -Le monde, 2019 (press article) : Link</p> <p>The social and solidarity economy, the business autrement - France 24, 2021 (video): Link</p> <p>Pre-visit reading : "You're selling ecology, the solidarity... It's all just window dressing": in Nantes, this urban ecology cluster qui crispe - Le Figaro, 2024 (article by press) : Link</p> <p><i>Biowaste in Nantes. In less than 100 days, food waste will have to be sorted</i> - Ouest France, 2023 (press article) : Link</p>

Week	Content	Assignments
Week 4	<p>Lesson 6: Using local, sustainable energy</p> <ul style="list-style-type: none"> - Challenges in France and in Nantes. - Nuclear debates. <p>Promote the emergence of local, citizen-based energy production.</p> <ul style="list-style-type: none"> - Heating networks in Nantes. + <i>Milestone in the choice of theme for the final project.</i> <p>Class 7: Visit to the Dervallières or Doulon-Gohards urban farms</p> <ul style="list-style-type: none"> - How can agriculture be established in an urban environment? - How stable is the business model? <p>What difficulties?</p>	<p>Introduction. Politiques locales de l'énergie: un renouveau sous contraintes – Sébastien Chailleux, Renaud Hourcade, Natures Sciences Sociétés, 2021 (article scientifique) : Lien</p> <p>Le nucléaire est-il une énergie verte ? - France Culture, 2018 (vidéo) : Lien</p> <p>Coup d'accélérateur pour le photovoltaïque dans la métropole nantaise - <i>Ouest France</i>, 2024 (article de presse) : Lien</p> <p>Lectures avant la visite :</p> <p>« La ferme urbaine, un message fort pour l'écologie », pour ce fermier de Doulon-Gohards, à Nantes - <i>Ouest France</i>, 2022 (article de presse) : Lien</p> <p>À Nantes, une ferme urbaine victime de vols à répétition - <i>Le Figaro</i>, 2023 (article de presse) : Lien</p>
Week 5	<p>Course 8: Links between ecology and society: inequality and ecofeminism</p> <ul style="list-style-type: none"> - Intersection between gender and sustainable development. - Including the gender perspective and social inequalities in environmental public policies; - Accessibility and sustainable urban planning. <p>Lesson 9: Visiting Nantes through the prism of social inequality</p> <ul style="list-style-type: none"> - Identifying universal accessibility problems in the city ; <p>Visit to a soccer field reserved for women athletes.</p>	<p>L'écoféminisme - <i>Catherine Larrère</i>, 2023 (Scientific book) : Link</p> <p>Gender inequalities, climate crisis and ecological transition – <i>Conseil économique, social et environnemental</i>, 2023 (Report communication) : Link</p> <p>Disability: why is public transport lagging behind in terms of accessibility? - <i>Le Monde</i>, 2021 (Video) : Link</p> <p>Pre-visit reading :</p> <p>Women's soccer pitch inaugurated in Nantes on Saturday - <i>Ouest France</i>, 2024 (press article) Link</p> <p>Nantes: still a long way to go to make the city accessible to all - <i>France Bleu</i>, 2021 (press article) : Link</p>

Week	Content	Assignments
Week 6	<p>Lesson 10: Links between ecology and society: a focus on priority urban districts</p> <ul style="list-style-type: none"> - Inequalities in contribution to and impact of climate change. - Neighborhood specificities priorities. - Urgences en matière de passoires thermiques, d'accès à des espaces verts, etc. <p>Class 11: Visit to the Bellevue district and meeting with an association working to raise awareness of climate change</p> <ul style="list-style-type: none"> - What new developments? - What consultation programs are in place to take account of residents' opinions? <p>What approaches to raising awareness of sustainable development?</p>	<p>Quartiers populaires, conscientisation écologique et libération - Fatima Ouassak, <u>Après-demain</u>, 2020 (scientific article) : Link</p> <p>Dernière rénovation - The campaign (website) : Link</p> <p>Ecology, a path to emancipation for working-class neighborhoods - Blast, 2023 (interview) : Link</p> <p>Pre-visit reading : Bellevue district under construction In Nantes, residents "squeeze dents" - Ouest France, 2023 (article press release) : Link</p>
Week 7	<p>Session 1: Methodological work: Choosing a theme and problematizing it</p> <ul style="list-style-type: none"> - Choosing a theme for the group project ; - Identification of several issues to be explored; - Drafting of the final problem. <p>Session 2: Methodological work: Adopting a critical approach and a complete analysis of the subject</p> <ul style="list-style-type: none"> - <i>Group homework (assessed): SWOT analysis ;</i> <p>Identify the legal framework (national, European and international) surrounding the subject in question</p>	<p>Methodological references :</p> <p>How to build a tree problems ? - Sustainable Business Models, 2018 (website) : Link</p> <p>Research question: how can how to find it? - Methodo Search, 2018 (video): Link</p>

Week	Content	Assignments
Week 8	<p>Session 3: Methodological work: Presenting a research project</p> <ul style="list-style-type: none"> - Drawing up a plan ; - Construction and presentation a bibliography. <p>Session 4: Identifying problems and solutions</p> <ul style="list-style-type: none"> - Group work at home: problem tree ; - Identification of possible solutions to the various problems ; <p>Work planning to explore possible solutions</p>	<p>Methodological references :</p> <p>The SWOT analysis in steps (Examples and models) Let's talk Project, 2023 (video) : Link</p> <p>How to make a memory plan - Supermemoire.com, 2024 (website internet) : Link</p> <p>SWOT analysis - Les cahiers de innovation (website) : Link</p>
Week 9	<p>Methodological session 5: Exchanging views with specialists or professionals</p> <ul style="list-style-type: none"> - Interviews with people involved, specialists or professionals in the selected subject; - Visits that may be of added value in preparing the final project. <p>Methodological session 6: Understanding the institutional environment and local context</p> <ul style="list-style-type: none"> - <i>Group work at home (assessed): mapping actors and actresses ;</i> <p>Reflection on the role and power of influence of each type of actor (public institutions, civil society, private sector, etc.).</p>	<p>Methodological references :</p> <p>Stakeholder mapping: definition and steps - Blog gestion de projets (site internet) : Link</p>

Week	Content	Assignments
Week 10	<p>Group work session 1 :</p> <ul style="list-style-type: none"> - Class work on the powerpoint presentation of the project; - Discuss the rules of a clear, effective and comprehensible oral presentation. <p>Group work session 2 :</p> <ul style="list-style-type: none"> - Student groups work in class on the project; <p>The teacher is on hand to provide support, comment and make adjustments.</p>	Assignment(s) and/or Reading(s)
Week 11	<p>Group work session 3 :</p> <ul style="list-style-type: none"> - Oral training presentation ; - Feedback and advice from the teacher and other student groups. <p>Group work session 4 :</p> <ul style="list-style-type: none"> - Student groups work in class on the project; <p>The teacher is on hand to provide support, comment and make adjustments.</p>	Assignment(s) and/or Reading(s)
Week 12	<p>Presentation of group work to an audience made up of members of the IES academic team, other students and elected representatives from the City and Metropolis of Nantes.</p>	Assignment(s) and/or Reading(s)

COURSE-RELATED TRIPS:

- Pont Anne de Bretagne, Parking Gloriette et Petite Hollande, cours 50 otages
- Couëron waste treatment and recovery center
- Dervallières or Doulon-Gohards urban farms
- Soccer field reserved for women athletes
- Bellevue district and meeting with an association working to raise awareness of climate change

REQUIRED READINGS:

See Contents section above for reference

RECOMMENDED READINGS:

Books:

- Tout comprendre (ou presque) sur le climat - Claire Marc, Anne Brès et Thomas Wagner (2022) ;
- Écologie et politique – Écologie et liberté - André Gorz (1975);
- Qu'est-ce que l'écologie sociale ? - Murray Bookchin (1999) ;
- L'illusion de la finance verte - Julien Lefournier et Alain Grandjean (2021) ;
- Construire plus vite la ville durable, José Michael Chenu (2021).

Reviews:

- Alternatives économiques - Hors Série n°063 - Le développement durable (2004) ;
- We Demain n°43 - la France des territoires : un nouveau pays (2023) ;
- We Demain n°39 - La société de la sobriété est là (2022);
- We Demain n°32 - 1 million d'emplois verts (2020);
- Sciences humaines - Grands dossier n°40 - Villes durables, quelles villes pour demain ? (2015).

Films:

- Demain - Documentaire de Cyril Dion et Mélanie Laurent (2015) ;
- Goliath - Film de Frédéric Tellier (2022) ;
- En même temps - Comédie de Gustave Kervern et Benoît Delépine (2022).

INSTRUCTOR BIOGRAPHY:

Baptiste Astrade holds a master's degree in political science and sociology from the Institut d'Etudes Politiques SciencesPo Bordeaux. He worked for several years at the French Ministry of Foreign Affairs on biodiversity, climate and environmental issues, first in West Africa and then in Paris. As France's focal point for the United Nations Convention to Combat Desertification, he took part in COP15 in Abidjan in 2022 as a negotiator for the European Union. He then moved from Paris to Nantes to work with the twenty or so ecologist and citizen elected representatives of the City and Metropolis of Nantes. He is now political advisor and secretary general of the elected group.