Subjects in sustainability at UIC Barcelona

Faculty of Economics and Social Sciences		
Studies	**Course Title**	**Topics / Competences**
Bachelor's Degree in Business Administration and Management	Anthropology	Compressive Sustainability
	General Ethics	Compressive Sustainability and the Agenda 2030
	Human Resources Management	Corporate social responsibility
	Ethics of the company	Corporate sustainability
	Social Entrepreneurship and Social Impact Investments	Corporate creative interaction, development, management economics and social business.
	Sostenibilitat	Corporate els principis i metodologies bàsiques per fer front als problemes relacionats amb la gestió dels processos de fabricació.
	Strategic Direction	Triple Bottom Line: Planet, People, and Profit. Sustainable strategy
	Corporate Governance	Corporate social responsibility and sustainability
	World Economy	Sustainability
Double Bachelor's degree in Business Administration and Management (Spanish Programme) + Industrial Production Engineering	Anthropology	Compressive Sustainability
	General Ethics	Compressive Sustainability and the Agenda 2030
	Human Resources Management	Corporate social responsibility
	Ethics of the company	Corporate sustainability
	Strategic Direction	Triple Bottom Line: Planet, People, and Profit. Sustainable strategy
	Corporate Governance	Corporate social responsibility and sustainability
	World Economy	Sustainability
University Master's Degree in Management & Operations	Management	Skills necessary for managing human resources and working with the human and social aspects of business operations
University Master's Degree in Business Administration and Production System	Project management	Critical contextualization of knowledge establishing interrelationships between social, economic and environmental and/or global problems
	Marketing	Sustainability
TOTAL	**17**	

Medicine and Health Sciences		
Studies	**Course Title**	**Topics / Competences**
Bachelor's Degree in Nursing	Public Health	Care People and care Planet
	Laboratories of Nursing 1	Compressive Sustainability and material recycling
	Laboratories of Nursing 2	Compressive Sustainability and material recycling
	Laboratories of Nursing 3	Compressive Sustainability and material recycling
	Care management	Care People and care Planet
Medicine	Bioethics	Critical contextualization of knowledge establishing interrelationships between social, economic and environmental and/or global problems
Bachelor's Degree in Bioengineering	Anthropology	Compressive Sustainability and the Agenda 2030
	Materials	Competencies: Ability to link welfare with globalization and sustainability; to acquire the ability to use skills, technology, the economy and sustainability in a balanced and compatible manner.
	Biomaterials and Biocompatibility	
	The Basic and Electronic Systems	
	Applied Pathology	
	Technology and Society	
	Psychosocial Care	Equity Sustainability
TOTAL	**13**	

Faculty of Medicine and Health Sciences		
Studies	*Course Title*	*Notes*
Bachelor's Degree in Bioengineering	- *Materials* - *Anthropology* - *Biomaterials and Biocompatibility* - *The Basics and Electronic Systems* - *Applied Pathology* - *Technology and Society*	Competencies: The ability to link welfare with globalization and sustainability; to acquire the ability to use skills, technology, the economy and sustainability in a balanced and compatible manner.
	- *Psychosocial Care*	Theme 8 Equity Sustainability ▪ Social influence and corporate identity ▪ Building human environments ▪ Energy trilemma: safety, sustainability and equity
TOTAL	**6**	

Faculty of Law		
Studies	*Course Title*	*Notes*
Bachelor's Degree in Law	- Fundamentals of the Human Behavior	Theme 9. Technology, science and sustainability
	- Environmental Law	
TOTAL	**2**	

Faculty of Communication Sciences		
Studies	*Course Title*	*Notes*
Bachelor's Degree in Audiovisual Communication	- Anthropology	Learning outcomes: Ability to design content for an audiovisual production and meet the needs with real limitations, such as economic, environmental, social, political, ethical, health and safety, promotion and sustainability.
Bachelor's Degree in Advertising and Public Relations	- History	Learning outcomes: Ability to design content for an advertising campaign and meet the needs with real constraints, such as economic, environmental, social, political, ethical, health and safety, promotional and sustainability.
	- Sociology	Part B. Sociological Research in Advertising Communication. Research topic: Environment: sustainability and environment.
	- Psychology	Theme 8. Systematic Environment: Sustainability, Social Responsibility
	- Anthropology	Learning outcomes: Ability to design content for an audiovisual production and meet the needs with real limitations, such as economic, environmental, social, political, ethical, health and safety, promotion and sustainability.
	- People Management	Theme 1: The challenge of sustainability (stakeholders)
	- Corporate Social Responsibility	Theme 7. Discuss and analyze sustainability reports
	- Fashion and Trend Communication	Theme 12. Sustainable Fashion
TOTAL	**8**	

Faculty of Humanities		
Studies	*Course Title*	*Notes*
Bachelor's Degree in Humanities and Cultural Studies	- Human Geography	6. Environment. The human response to the environmental challenge 6.1. Definitions (environmentalism, environment...). Main anthropic impacts on the environment. New visions of the world and nature. 6.2. Sustainability and global actions. NGOs. Rio Conference. Brundtland Report. Kyoto Protocol.
Master's Degree in Arts and Cultural Management - Official	- Performing Arts Management	Theme Music management. Risk vs. Subsidies: History of the impresario. Deficit as a rule? Fundraising in different cultures. Social responsibility. Sustainability applied to the music industry.
	- Cultural Heritage Management	Topic 1. Introduction to heritage as an activity sector. 1.3 Heritage, tourism and sustainable development.
TOTAL	**3**	

Faculty of Education Sciences		
Studies	*Course Title*	*Notes*
Bilingual Bachelor's Degree in Pre-Primary Education or in Primary Education *Bachelor's Degree in Pre-Primary Education*	- Sociology I: Sociology of Education - Sociology II: Family Sociology	<u>Competencies:</u> To analyze and incorporate in a critical manner the most relevant questions affecting school and family education in today society: the social and educational impact of audiovisual languages and screens; changes in gender and intergenerational relations; multiculturalism and interculturalism; discrimination and social inclusion; and sustainable
	- Learning the Natural Sciences, Socials Sciences and Mathematics I - Learning the Natural Sciences, Socials Sciences and Mathematics III	<u>Competencies:</u> To draw up teaching proposals related to the interaction of science, technology, society and sustainable development.
	- Body Language	<u>Objectives:</u> Linking sustainability (environmental and social) with body language. <u>Chapter 1 Conceptual Approach Expression Body</u> 1.6 Resources and sustainable actions
	- Theory and Practice in Physical Education	<u>Competencies:</u> To draw up teaching proposals related to the interaction of science, technology, society and sustainable development.
	- Teaching and Learning the Experimental Sciences 1	<u>Competencies:</u> To recognize the mutual influences of science, society and technological development, as well as pertinent citizen behavior, in attaining a sustainable future. <u>Learning outcomes:</u> Recognizes the influence between science and society and technological development, as well as the behavior of citizens, to ensure a sustainable future. <u>Practical work</u> Presentation of the Project: Transversal Sustainability Workshop (November 22th)
	- Teaching and Learning the Experimental Sciences 2	<u>Competencies:</u> To recognize the mutual influences of science, society and technological development, as well as pertinent citizen behavior, in attaining a sustainable future. <u>Learning outcomes:</u> Recognizes the influence between science and society and technological development, as well as the behavior of citizens, to ensure a sustainable future. <u>Theme People and health (LM):</u> 1. Nutrition. Types of foods. Healthy and sustainable food.
Degree in Primary Education	- Teaching and Learning the Experimental Sciences 1	<u>Competencies:</u> To recognize the mutual influences of science, society and technological development, as well as pertinent citizen behavior, in attaining a sustainable future. <u>Learning outcomes:</u> Recognizes the influence between science and society and technological development, as well as the behavior of citizens, to ensure a sustainable future. <u>Practical work</u> Presentation of the Project: Transversal Sustainability Workshop (November 22th)
	- Teaching and Learning the Experimental Sciences 2	<u>Competencies:</u> To recognize the mutual influences of science, society and technological development, as well as pertinent citizen behavior, in attaining a sustainable future. <u>Learning outcomes:</u> Recognizes the influence between science and society and technological development, as well as the behavior of citizens, to ensure a sustainable future. <u>Theme People and health (LM):</u> 1. Nutrition. Types of foods. Healthy and sustainable food.
	- Teaching and Learning the Experimental Sciences 3	<u>Competencies:</u> To recognize the mutual influences of science, society and technological development, as well as pertinent citizen behavior, in attaining a sustainable future. <u>Learning outcomes:</u> Recognizes the influence between science and society and technological development, as well as the behavior of citizens, to ensure a sustainable future. <u>Theme 1. Education for Sustainability</u>
	- Teaching and Learning the Social Sciences 1 - Teaching and Learning the Social Sciences 2	<u>Resources and didactic material:</u> Sustainability in the world, sustainability workshop
	- Teaching and Learning Mathematics 3	
TOTAL	**14**	

School of Architecture		
Studies	**Course Title**	**Notes**
Bachelor's Degree in Architecture	- Design Studio I	Competencies: Sufficient knowledge of: theories of form, symbolism, composition and architectural typologies; history of architecture; understanding of social needs, quality of life and habitability and how to solve them; the environment, sustainability and the conservation of material and energy resources; To acquire adequate knowledge of the environment, sustainability and the principles of conserving energy and environmental resources. Syllabus The materialization of the idea will also be an important element. The sustainability and constructive and sensorial properties of the materials chosen for the concept will be another aspect to take into consideration.
	- Design Studio II - Urban Design I - Accessibility - Design Studio III - Design Studio IV - Urban Design III - Management - Design Studio VII - Urban Design IV	Competencies: To acquire adequate knowledge of the environment, sustainability and the principles of conserving energy and environmental resources.
	- Urban Design II	Objective: For students to explore in depth and incorporate contemporary issues into the design of the neighborhoods planning, such as the principles of diversity (uses and typologies), identity (civic areas, unique features, etc.) and sustainability (footpaths, public transport, services, etc.) to create the conditions for urban quality.
	- Cooperation I	Competencies: Generate a core of research based on cooperation projects, working on aspects such as the architecture and culture of the place in question, vernacular architecture, sustainable human development, sustainable construction and environmentally-friendly, low-cost building solutions. Syllabus Environment, sustainability and the conservation principles of energy and environmental resources in architectural projects Teaching and learning activities Efficient, environmentally-friendly, sustainable and low-cost materials and building systems suitable for the case of Anantapur
	- Design Studio V - Design Studio VI - Design Studio VIII	Competencies: To acquire adequate knowledge of the environment, sustainability and the principles of conserving energy and environmental resources. Syllabus The environment, sustainability and the principles of conserving energy and environmental resources in architectural projects.
	- Sustainability I - Sustainability II	Competencies: Personal approach to the new environmental paradigm and its interaction with architecture. Energy audit of the house itself, analyzing the envelope and equipment, associated energy consumption.

	- Architectural Theory and Criticism	<u>SUSTAINABILITY AND THE ENVIRONMENT</u> By means of a specific analysis of two case studies – the city of Masdar designed by Foster & Partners and the premise of the book Cradle to Cradle – this section concentrates on the defense of an architecture that essentially recovers a humanist dimension and its value as an instrument of social construction that is concurrent with the need for economic and environmental sustainability, with a view to making a critical appraisal when these arguments are transformed into pretexts for star-system prod
	- Cooperation II	<u>Objectives:</u> Understand low-cost and sustainable technologies in order to design, calculate and execute architectural cooperation projects. <u>Competencies:</u> To acquire adequate knowledge of the environment, sustainability and the principles of conserving energy and environmental resources.
Master's Degree in International Cooperation: Sustainable Emergency Architecture – Official	- Bottom Up Strategies for Urban Regeneration - Internship	Competencies: Acquire a methodology based on interdisciplinary criteria in order to develop sustainable architectural projects. From a specialized standpoint, to be able to select the criteria for sustainable development solutions applied to planning projects at a territorial, regional and local scale. To know and apply the practical and theoretical principles for the conservation of sustainable resources in urban development. To know how to adapt construction materials in order to develop alternative, sustainable, and low-cost construction techniques
	- Environmental Justice. Urban Development	This intensive course will examine the theory and practice of sustainable development and environmental justice in cities, looking most specifically at the community and neighborhood scale and considering the experience and needs of historically marginalized groups in cities. We will explore the political economy, policy, and planning processes that create unequal and unsustainable urban communities, including loss of rural livelihoods and rural migration and uncontrolled development in the global south, and deindustrialization, urban flight, unequal development, and gentrification in the global north
	- Governance, Participation and Social Design - Humanitarian Shelter and Settlements	<u>Competencies:</u> Acquire a methodology based on interdisciplinary criteria in order to develop sustainable architectural projects To know and apply the practical and theoretical principles for the conservation of sustainable resources in urban development. To know how to adapt construction materials in order to develop alternative, sustainable, and low-cost construction techniques
	- Introduction to Emergency and Urban Development	<u>Learning outcomes</u> Students will understand the complex economic and social factors of urban upgrading towards a sustainable outcome. <u>Syllabus</u> Case studies and methodology for sustainable upgrading strategies.
	- Participation As a Tool for Upgrading	<u>Learning outcomes</u> The students will reach a more nuanced and sophisticated understanding of the opportunities and challenges of international cooperation for fostering environmental sustainability and socio-spatial justice through the examination of theories and case studies. They will acquire theoretical and analytical frameworks to identify and analyze the effectiveness of institutional arrangements for international cooperation, assess their impact on environmental sustainability and socio-spatial justice, and point to specific ways some of the challenges may be addressed.
	- Participatory Planning. Community Design	<u>Competencies:</u> Encouraged students to be creative and innovative in developing new forms of practice within the built environment that take into account the role of partnerships, collaboration and co-production with peers or supporting institutions.
	- Socio Spatial Workshop for Integrated Urban Upgrading	This two-week workshop in UIC Barcelona intends to study the spatial inequalities, and lack of social cohesion in a broad and local scale in order to contribute to the discussion of alternative strategies for mitigation and integrative measures towards a more sustainable and resilient urban development path.
	- Urban Growth and City Resilience	<u>Learning outcomes</u> Familiarization with a methodology for developing linkages to sustainable outcomes from a post-disaster urban response
Master's Degree in City Resilience Design and Management	- MOD Theory – Conceptual Framing: Vulnerability, Resilience and Sustainability	Global Urban and Environmental Change Urban Risk and Vulnerability Assessments Multidisciplinary Perspectives on Urban Resilience From Security and Risk Management to Integrated Urban Resilience Thinking
	- MOD Perspective 2 – Resilience and Nature Based Solutions	Urban Ecosystem Services/Disservices and Nature Based Solution (NBS) Frameworks Coastal City Challenges and NBS Calculating Urban Ecosystem Services Benefits Visit Barcelona: Green Infrastructures and Community Gardens

		Economic Resilience: Growth, Diversification, Globalization and Shrinkage Processes Emergency and Post-Emergency Recovery Management Urban Services Continuity and Co-Management Policies Smart City Dashboard and Real-Time Management of City Services Visit Barcelona: Energy Co-Production Cooperative and Co-Management of Public Spaces
	- MOD Perspective 3 – Economy and Urban Services Resilience	
	- MOD Perspective 4 – Community Resilience for Sustainability Transitions	Migration, Inclusiveness and Participatory Planning Community-Led Initiatives and the Transition Movement Social Justice and Climate/Disaster Resilience Fuzzy Cognitive Mapping: Understanding Stakeholder Perceptions Visit Barcelona: Community Gardens and Transition Initiatives
TOTAL	**33**	

TOTAL: 96

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