

## General advice about the School of Architecture of Granada.

It would be necessary to clarify that the School of Architecture of Granada has its present situation at a provisional building with limited spaces for teaching, so the number of posts for each group of each subject it's limited, this usually makes difficult to obtain a determined group.

Here it's detailed the list of "troncal" and "obligatoria" subjects from the School of Architecture of Granada, it's important to clarify that a student from the School of Architecture of Granada will obtain at the end of his career 315 credits (it's about a 79% of the formative charge) from the "troncal" and "obligatoria" subjects; note that some of this subjects are annual subjects so **students that spend at Granada only one semester cannot obtain in anyway an annual subject**. These subjects cover the general knowledge about the constructive process, calculus, design and history of architecture. At these subjects there will be always posts for any student, but maybe not at the wanted group.

One credit from University of Granada is equal to 10 hours of teaching lessons (a part of the total credits is practical lesson credits and other part is theory lesson credits), the personal work of the student at home it's not recognized.

**The following list is about the Troncal and Obligatoria Subjects, the student ALWAYS will have place at these subjects.**

Construcción 2 (Building 2)	Desarrollo de estructuras de hormigón y acero, atención al estudio de las secciones detalladas.	Building in reinforced concrete and steel.	Annual	120	12	4
Historia de la Arquitectura 3 (History of architecture 3)	Temario desde el Neoclasicismo a la arquitectura del s. XX.	Lessons from Neclasicism to 20th century architecture	1st semester	75	7,5	5
Urbanística 2 (Urban design 2)	Proyecto de actuación urbana sobre periferia y atenciones a la urbanística bioclimática.	Urban Project design about borders of cities and bioclimatical urban concepts.	1st semester	60	6	4
Urbanística 3 (Urban design 3)	Proyecto de actuación urbana sobre cascos urbanos consolidados e históricos.	Urban Project design about historical and modern city centers	2nd semester	45	4,5	3
Estructuras 2 (Structural calculus 2)	Cálculo de estruct. de hormigón armado.	Structural calculus in reinforced concrete	2nd semester	75	7,5	5

Proyectos 3 (Design projects 3)	Proyectos sobre vivienda colectiva y unidades de habitación.	Design Project about collective habitationals.	Annual	180	18	6
Instalaciones 1 (1)	Agua caliente/fría sanitaria, electricidad	Systems of machinery for heat/cold water and electricals	1st semester	60	6	4
Construcción 3 (Building 3)	Envolvente, particiones, cubiertas	External walls, inner walls, roofs.	Annual	75	7,5	3
Urbanística 4 (Urban design 4)	Proyecto de actuación urbana a escala territorial, análisis del territorio y organización de las infraestructuras públicas y del sector terciario.	Urban design Project about territorial scale and analysis, organization of public and commercial structures	1st semester	60	6	4
Estructuras 3 (Structural calculus 3)	Cálculo de estruct. de acero	Structrural calculus in steel	2nd semester	45	4,5	3
Instalaciones 2 (2)	Calefacción, aire acond. , acústica y arquitectura bioclimática.	Heating systems, air conditioned systems and bioclimatic architecture.	Annual	90	9	3
Proyectos 4 (Design projects 4)	Proyectos sobre grandes instalaciones, atención al ámbito urbanístico.	Desing Project about big public centers and relations with the urban scale	Annual	220	22	7
Composición (Composition)	Hª Contemporánea de la Arquitectura y aplicaciones al arte.	Contemporary and modern architecture and application to art.	2nd semester	60	6	4
Mecánica de Suelos y Cimentación (Geotechnics and foundations)	Geotecnia, cálculo de muros de contención, resistencia y límites de rotura de terrenos, ensayos de campo de resistencia del terreno.	Geotechnical analysis and calculus, contention wall, breaking limits of terrains, field proofs.	1st semester	45	4,5	3
Construcción 4 (Building 4)	Estudio de patologías, defectos constructivos y degradaciones.	Defects and solutions in buildings.	1st semester	45	4,5	3
Construcción 5 (Building 5)	Organización de obra, mediciones, presupuesto, seguridad y salud	Organization of the building process, economic spending planning, security in building process.	2nd semester	45	4,5	3
Estructuras 4 (Structural calculus 4)	Sismo-resistencia, pretensado, muros, forjados y forjados nervados.	Earthquake-proofed buildings structural calculus, prestressed concrete calculus,	1st semester	45	4,5	3

			reinforced concrete wall calculus, reinforced floors calculus.				
	Proyectos 5 (Design projects 5)	Previo fin de carrera, temario variable, resumen de aspectos del proyecto respecto a asignaturas anteriores.	Previous final thesis design Project, concentrated knowledge of all courses in design Project, aspects of projects vary depending professor and academic year.	1st semester	110	11	7
	Urbanística 5 (Urban design 5)			1st semester	60	6	4
	Legislación (Legislation)	Legislación española sobre edificación.	Spanish legislation on building	2nd semester	45	4,5	3
	Restauración Arquitectónica (Architectural restoration)	Proyecto de restauración, documentación sobre la edificación a restaurar, lecciones teóricas sobre técnicas de restauración.	Architectural restoration Project, briefing information about the building, theoretical lessons on rectoration technics.	2nd semester	60	6	4
	Proyecto Fin de Carrera (Final thesis project)	Proyecto integrando todas las disciplinas cursadas.		-	30	3	-
	Useful weblinks						
	<a href="http://citywiki.ugr.es">http://citywiki.ugr.es</a>	Web realizada con la colaboración de los alumnos, sobre la ETS de Arquitectura.	Website built thanks to the collaborations of students from the school				
	<a href="http://www.ugr.es/~etsarqui/etsag_web/marcoizquierda_alt2.htm">http://www.ugr.es/~etsarqui/etsag_web/marcoizquierda_alt2.htm</a>	Web general oficial de la ETS Arquitectura con horarios de clase y calendario de exámenes.	Official website from the ETS Arquitectura. Timetables, programs and examination dates.				
	<a href="http://www.ugr.es/~etsarqui/etsag_web/estudios/Nuevo.pdf">http://www.ugr.es/~etsarqui/etsag_web/estudios/Nuevo.pdf</a>	Lista de todas las asignaturas detallada y contenidos	List of every subject with detailed contents of each one.				
	ETS Arquitectura Avd. Andalucía, 38 18071 Granada (España)	Tel: +34 958 242933  Fax: +34 958 248971 +34 958 246115					

There is no possibility to do Final Thesis project by an Erasmus student.

Almost every subject has the possibility of choosing group and each group has different hours for teaching to give the chance of configuring timetables. Once a student is registered by administration office at one subject he will not be able to change the group, as any other student at the School. Also no student can follow a course in which it's not registered by any way, the teacher will not evaluate the student.

There is a list of optative subjects; these subjects have limited posts, so it's difficult to get registered at some of these subjects, we recommend not to get more than two of these subjects because could have not post finally. Note that a student from the School of Architecture of Granada studies only 45 credits from "optativa" subjects(it's about an 11% from the formative charge).

**The following list is about the Optativa Subjects, the VACANCIES at these subjects are NOT sure.**

Subject Name	Descripción	Description (English)	Period	Total hours	Crédits (10h=1 cr)	Hours per week
Ampliación de matemáticas	Conocimientos matemáticos sobre representación y composición modular.	Mathematical knowledge at representation and modular composition	2nd semester	60	6	4
Ampliación de física	Conocimientos sobre acústica, fotometría, meteorología y clima.	Knowledge about acoustic and photographic measures, meteorology and environment	2nd semester	60	6	4
Diseño asistido por ordenador	Aprendizaje de los sistemas y periféricos informáticos de representación. Autocad, 3DStudio y Adobe Photoshop.	Learning in informatic and oeripheral systems of desing: Autocad, 3DStudio and Adobe Photoshop.	Annual	90	9	3
Arquitectura y ciudad en el mundo islámico	Historia de la arquitectura islámica desde el nacimiento del Islam hasta nuestros días en todo el mundo.	History of islamic architecture from the beggining till our days all over the World.	1st semester	60	6	4
Levantamiento de edificios	Sistemas de representación de edificios a través de herramientas fotográficas e informáticas. Fotogrametría.	Building representation systems with altered photographic and informaticTools	2nd semester	60	6	4
Materiales y Técnicas Constructivas	Análisis de los materiales y las técnicas constructivas. Sistemas constructivos de	Analysis and history of building materials and modes of building.	Annual.	60	6	4

		la antigüedad y recientes.					
	Arquitectura del paisaje	Estudio sobre los valores paisajísticos urbanos, planificación y diseño del paisaje.	Landscape design.	2nd semester	60	6	4
	Estructuras sismorresistentes	Diseño, análisis, ejecución y control de estructuras especiales (patologías y rehabilitación).	Design, análisis, execution and calculus in special structures	Annual.	90	9	6
	Análisis urbano	Estudio de trazados y forma urbana. Tratamiento de los centros históricos. Estudio de la urbanísticas de las ciudades andaluzas.	Studies in urban design and form. Treatment of historicals city centres and urban designo of andlusien cities.	2nd semester	60	6	4
	Proyectos urbanos	Estudio de los espacios públicos y privados, relaciones de equilibrio entre ellos.	Studies in public and private spaces, and the relations between them.	2nd semester	60	6	4
	Instalaciones urbanas	Redes urbanas de saneamiento, electricidad y gas.	Sewering, electrical and gas urban conductions.	1st semester	60	6	4
	Historia urbana	Historia del urbanismo. Estudio de las ciudades: Madrid, Barcelona, París, New York, Berlín, Viena y Oporto.	Urban history of: Madrid, Barcelona, Paris, New York, Berlin, Viena and Oporto.	2nd semester	60	6	4
	Ampliación de instalaciones	Domótica, energía solar, ahorro energético, etc...	Domotics, fotovoltaic solar energy, energetic saving, etc.	2nd semester	60	6	4
	Monográfico de proyectos	Curso internacional de proyectos.	Internation course of desing projects.	Annual.	60	6	4
	Introducción a la restauración	Teorías sobre restauración. Historia de la restauración.	Theories of restoration. History of restoration.	2nd semester	60	6	4

Prefabricación	Preparación y construcción industrializadas. Normalización. Tipos y sistemas.	Normalized buildings.	1st semester	60	6	4
Técnicas de visualización y presentación aplicadas a la arquitectura	Técnicas realistas de visualización a partir de modelos tridimensionales. Conceptos de animación por ordenador.	Realistic informatic technics of representation in 3D. Informatic animatic motion.	1st semester	60	6	4
Ecuaciones en derivadas parciales y elementos finitos	Ecuaciones diferenciales y derivadas parciales. Elementos finitos. Aplicaciones a la arquitectura.	Partial and diferencial equations.	1st semester	60	6	4
Cálculo numérico	Interpolación de funciones de una variable. Funciones splines. Curvas y superficies Bézier. Integración.	Spline functions, Bézier curvs and surfaces. Integrals.	1st semester	60	6	4
Valoraciones inmobiliarias	Tasaciones y valoraciones inmobiliarias sobre edificios construidos y parcelas no construidas.	Economic valoration of buildings and terrains.	Annual.	60	6	4

These subjects usually have NO vacancies at the arrival of the Erasmus student:

- Arquitectura y ciudad en el mundo islámico
- Diseño asistido por ordenador
- Levantamiento de edificios
- Técnicas de visualización aplicadas a la arquitectura
- Materiales y técnicas constructivas

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The 10% of the academic instruction (45 credits) of the student are "Libre Configuración" subjects (Free Choice), this subjects could be from the proposed list in the ETS Arquitectura or from any other faculty in the University of Granada, due to the special difficult in making compatible the hours between faculties, it's not recommendable to register more than two "Libre Configuración" subjects each year.

The list of "Libre Configuración" subjects varies each year and can be found at the internet.