



Teaching Guide				
Identifying Data				2016/17
Subject (*)	ALTERACIONES DE BASE CONXÉNITA		Code	652G04013
Study programme	Grao en Logopedia			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Second	Obligatoria	6
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Psicología			
Coordinador	Pasaro Mendez, Eduardo Jose	E-mail	eduardo.pasaro@udc.es	
Lecturers	Laffon Lage, Blanca Pasaro Mendez, Eduardo Jose	E-mail	blanca.laffon@udc.es eduardo.pasaro@udc.es	
Web	www.dicomosa.org			
General description	The main objective of this course is seised mechanisms that may induce alterations in the appearance of cells, tissues and organs with consequences on oral communication skills, with particular attention to the causes of genetic origin.			

Study programme competences / results	
Code	Study programme competences / results
A1	Coñecer e integrar os fundamentos biolóxicos da Logopedia: a Anatomía e Fisioloxía.
A6	Coñecer a clasificación, a terminoloxía e a descrición dos trastornos da comunicación, a linguaxe, a fala, a voz e a audición e as funcións orais non verbais.
A10	Realizar a avaliación das alteracións da linguaxe nos trastornos específicos do desenvolvemento da linguaxe: trastorno específico da linguaxe, retrasos da linguaxe, trastornos fonéticos e fonolóxicos; os trastornos da comunicación e a linguaxe asociados a déficit auditivos e visuais, o déficit de atención, a deficiencia mental, o trastorno xeneralizado do desenvolvemento, os trastornos do espectro autista, a parálise cerebral infantil e as plurideficiencias; os trastornos específicos da linguaxe escrita; as discalculias; as alteracións no desenvolvemento da linguaxe por privación social e as asociadas a contextos multiculturais e plurilingüismo; os trastornos da fluidez da fala; as afasias e os trastornos asociados; as disartrias; as disfonías; as disglorias; as alteracións da linguaxe no avellentamento e os trastornos dexenerativos; as alteracións da linguaxe e a comunicación en enfermidades mentais; o mutismo e as inhibicións da linguaxe; as alteracións das funcións orais non verbais: deglución atípica, disfagia e alteracións tubáricas.
A26	Adquirir un coñecemento práctico para a avaliación logopédica.
A32	Utilizar tecnoloxías da información e da comunicación.
B12	Comunicarse de maneira efectiva nun contorno de traballo.
B17	Saber expresarse en público.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C8	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.

Learning outcomes			
Learning outcomes		Study programme competences / results	
Know the origin and evolution of language, as well as consideration of how this result set behavior evolutionarily		A6	C3 C6 C8
Study the lateralization of brain function. Meet the usefulness of the study of lesions in the knowledge of the topography of the brain processes language		A1	



Learn some techniques of determination of language disorders conxénitas	A1		
Know the stages of embryonic development and the relationship thereof with the risk of malformations occur	A10 A26 A32		
Understand how genetic information and the types of products that the cells can use co-related cognitive functions.	A6		
Knowing the origin and language disorders congenital both exogenous type as those caused by specific genetic alterations and chromosomal abnormalities.	A26		
Understanding the changes that occur in the language as a result of alterations in neurogenetic type, cerebral palsy and mental retardation.	A26		
Know the main language disorders and speech with conxénita basis	A26		
Mastering the scientific language of the discipline and communicate effectively.		B12	
Learn public speaking expertise		B17	

Contents	
Topic	Sub-topic
1. Concept of congenital anomaly. Language as behavior	
2. Methods of study	
3. Modes of genetic information	
4. Mechanisms of inheritance	
5. Embryonic Desenvolvemento. Teratogenesis. Environmental considerations	
6. Inborn errors of metabolism	
7. Chromosomal abnormalities. Numerical and structural chromosomal alteracions	
8. Neurogenetics	
9. Cerebral palsy, mental retardation and language.	
10. Prevention, diagnosis and therapy of congenital language disorders	

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A1 A6 A10 A26 A32 C3 C8	20	40	60
Seminar	B12 B17 C6	17	25.5	42.5
Multiple-choice questions	A1 A2 A5 A6 A7 A10	3	0	3
Problem solving	A6 A10 B17 C8	5	10	15
Supervised projects	A32 B12 B17 C3	0	28	28
Personalized attention		1.5	0	1.5

(\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	Introduction teacher you put the contents of the agenda with the help of multimedia material. Answers to questions from students.
Seminar	They are interactive activities, a second regulatory structure approved by the Faculty. Trataráanse issues related to the themes of the course, by plantexarán issues by students. Interactive sessions will take place after the weekend prior to the students to work and collect the contents doubts.
Multiple-choice questions	Multiple choice test.



Problem solving	Planning and problem solving
Supervised projects	Voluntarily and in accordance with faculty, students shall work on issues related to specific agenda items.

### Personalized attention

Methodologies	Description
Supervised projects Problem solving	Attention to students through interactive activities, the tutorials presenciais or through Virtual Campus, for guidance in conducting the protected work and the study of the subject in general.

### Assessment

Methodologies	Competencies / Results	Description	Qualification
Supervised projects	A32 B12 B17 C3	The work will be supervised volunteers. Compute a maximum of 10% of the final grade for the course, to deduct the weight of the multiple choice test and if the latter is approved	0
Seminar	B12 B17 C6	Attendance and participation will be assessed, provided the multiple choice test is approved	5
Problem solving	A6 A10 B17 C8	They are part of the multiple-choice test	0
Multiple-choice questions	A1 A2 A5 A6 A7 A10	An examination at the end of the program to be approved to pass the course. This examination will be scheduled by the Faculty	90
Guest lecture / keynote speech	A1 A6 A10 A26 A32 C3 C8	Attendance and participation will be assessed, provided the multiple choice test is approved	5
Others		Un examen al finalizar el programa que deberá aprobarse para superar la asignatura. Dicho examen podrá realizarse antes del programado por la Facultad La nota de la asignatura se complementará con los trabajos correspondientes a los créditos ECTS y el trabajo práctico.	

### Assessment comments

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### Sources of information

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<p><b>Basic</b></p>	<p>Benítez Burraco, A. (2009) Genes y lenguaje: aspectos ontogenéticos, filogenéticos y cognitivos. Barcelona: Reverté.          Carlson, N.R. (2006) Fisiología de la conducta (8ª Edición). Madrid: Pearson Educación. Cox, T.M.; Sinclair, J. (1998) Biología Molecular en Medicina. Madrid: Pannamericana.del Abril          Alonso, A.; Flores, E.A.; de Blas Calleja, M.R.; Caminero Gómez, A.A.; García Lecumberri, C.; de Pablo González, J.M.; Sandoval Valdemoro, E. (2001) Fundamentos biológicos de la conducta (2ª Edición). Madrid: Sanz y Torres.Fuentes, X.; Castiñeiras, M.J.; Queraltó, J.M. (1999) Bioquímica clínica y patología molecular. Barcelona: Reverte.Gil, R. (2007) Manual de Neuropsicología. Barcelona: Elsevier Massson. González, N.L.; Armas, M.H. (1998) Diagnóstico prenatal de las alteraciones congénitas: Investigación. Universidad de la Laguna, Secretariado de Publicaciones.Hübner, M.E. (2005) Malformaciones congénitas: Diagnóstico y manejo neonatal. Madrid: Editorial Universitaria.Jiménez Escrig, A. (2003) Manual de neurogenética. Madrid: Ediciones Díaz de Santos.Jones KL. (2007) Smith. Patrones reconocibles de malformaciones humanas. Madrid: Elsevier.Junqué, C.; Bruna, O.; Mataró, M. (2004) Neuropsicología del lenguaje: Funcionamiento normal y patológico. Rehabilitación. Barcelona: Elsevier España.Love, R.J.; Webb, W.G. (1998) Neurología para los especialistas del habla y del lenguaje (3ª Edición). Madrid: Panamericana. Laffon, B.; Pásaro, E. (2012). Bases congénitas de las alteraciones del lenguaje. Bubok Publisher. Madrid.Maestú Unturbe, F.; Ríos Lago, M.; Cabestrero Alonso, R. (2008) Neuroimagen: técnicas y procesos cognitivos. Barcelona: Masson-Elsevier.Mora, F. (2009) Cómo funciona el cerebro. Madrid: Alianza Editorial.Olarrea, A. (2005) Orígenes del lenguaje y selección natural. Madrid: Equipo Sirius.Pinel, J.P.J. (2007) Biopsicología (6ª Edición). Madrid: Pearson Educación.Plomin, R.; DeFries, J.; McClearn, G.; McGuffin, P. (2002) Genética de la conducta. Ariel Ciencia. Barcelona. Puyuelo, M.; Rondal, J.A. (2003) Manual de desarrollo y alteraciones del lenguaje. Aspectos evolutivos y patología en el niño y el adulto. Barcelona: Masson.Reyes Tejedor, M.; Camacho Tabeada, M.V. (2007) Patologías del lenguaje: Lingüística, afasias y agramatismos. Madrid: Editorial Universitaria Ramon Areces.Solari, A.J. (1999) Genética humana: fundamentos y aplicaciones en medicina (2ª Edición). Buenos Aires: Editorial Médica Panamericana.Strachan, T.; Read, A.P. (2006) Genética molecular humana (3ª Edición). México: McGraw-Hill.</p>
<p><b>Complementary</b></p>	

**Recommendations**

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

**Other comments**

-Basics of cytology, histology and genetics. Knowledge, level computer user, for the use of the Virtual Campus.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.