

COURCE DUVCICAL CUEN			
COURSE: PHYSICAL CHEN ACADEMIC YEAR: 2018/2			
TYPE OF EDUCATIONAL			
TEACHER: LUCIANO D'AL			
e-mail: luciano.dalessio@unibas.it		website: http://oldwww.unibas.it/utenti/dalessio/benvenuti.html	
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Language: italian		mobile (optional).	
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	n. of hours: 56 ( 40 lecture + 16 practical)	Campus: Potenza/Matera Dept./School: School of Agriculture, Forest, Food and Environmental Sciences Program: MSc in Food Science and Technology	Semester: 1st
molecular structural stud the critical knowledge of • knowledge and chemical physics. Knowled kinetics. Knowledge and physical-chemical equilit molecular structure. • applying knowled chemical reactions, the r simple mathematical mod Ability to use databases physical-chemical system • making judgem physical-chemical system • communication non-technical and techni kinetics and thermodyna • learning skill: Al the data. Ability to access and scientific literature.	de the conceptual and m dies, with particular refer the subject and the abil understanding: Knowled edge and understanding understanding of the pro- pria. Knowledge of the q edge and understanding. ate of reaction kinetics of odels of physical-chemico and software for predict ns. []] ents: Ability to identify the sinteresting from the a skills: Ability to commun- ical audiences. Ability to umic systems. []]	nethodological tools of thermodynamics, cher rence to food science and technology applica ity to solve simple numerical problems, also u lge and understanding of the general principle of the main theoretical and experimental pri inciples of classical thermodynamics and thei uantum relativistic approach for understand the approach to chemical equilibrium sta al processes for the resolution of various prob ion and modeling of dynamical and equilibriu he most effective tools for the description, sir pplicative point of view.	tions. The student will gai using IT tools. les and methods of nciples of chemical ir utilization for the study of ing the atomic and at control the evolution of te. Ability to develop lems of practical interest. Im properties of main mulation and analysis of ling of the reality to both ations of prediction tools o
PRE-REQUIREMENTS Mathematics: Differntial Physics: Elements of mec General Chemistry: Stuct	chanics, thermodynamics	s, electromagnetism.	
SYLLABUS			
thermodynamics	chanics		
chemical kinetics thermodynamics quantum-relativistic med TEACHING METHODS Theoretical lessons, Class			



Written examination, Oral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL Atkins-De Paula, Elementi di Chimica Fisica, Zanichelli http://oldwww.unibas.it/utenti/dalessio/benvenuti.html

INTERACTION WITH STUDENTS

Reception by appointment

EXAMINATION SESSIONS (FORECAST)<sup>1</sup> 2/5/19, 3/12/19, 6/4/19, 7/2/19, 9/10/19, 10/8/19, 12/10/19

SEMINARS BY EXTERNAL EXPERTS YES 🗆 NO 🗆 x

FURTHER INFORMATION