



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Medicina di Precisione in area Medica, Chirurgica e Critica		
ACADEMIC YEAR	2018/2019		
MASTER'S DEGREE (MSC)	DENTISTRY		
INTEGRATED COURSE	SCIENTIFIC ENGLISH LANGUAGE AND COMPUTER SCIENCE - INTEGRATED COURSE		
CODE	17614		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	L-LIN/12, INF/01		
HEAD PROFESSOR(S)	VITABILE SALVATORE	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	VITABILE SALVATORE	Professore Ordinario	Univ. di PALERMO
	CANZIANI TATIANA	Ricercatore	Univ. di PALERMO
CREDITS	8		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION	COMPUTER SCIENCE - Corso: MEDICINA E CHIRURGIA		
	COMPUTER SCIENCE - Corso: MEDICINE AND SURGERY		
YEAR	1		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	CANZIANI TATIANA Wednesday 09:00 - 12:00 Tramite piattaforma Teams o in presenza presso il Plesso di Anatomia ed Istologia. Per prenotare il ricevimento inviare una mail alla docente.		
	VITABILE SALVATORE Monday 16:30 - 18:30 Piattaforma Microsoft Teams, Dipartimento di Biomedicina, Neuroscienze e Diagnostica avanzata, Plesso di Radiologia – 1° piano, Stanza n. 108.		

DOCENTE: Prof. SALVATORE VITABILE

PREREQUISITES	An A1 level of English (as described by the Common European Framework of References for Languages), and an ECDL (European Computer Driving License) are recommended but not compulsory.
LEARNING OUTCOMES	<p>Knowledge and understanding At the end of the course students will be expected to have acquired linguistic and communicative skills (B1 Level of CEFR), a basic use of the specialized terminology and language registers required to pursue the profession of dentist in different communicative situations and a basic knowledge of simple computer system structures and principles, methods and techniques for health information management.</p> <p>Applying knowledge Students should be able to understand and write simple specialized texts (e.g. abstract; formal letters), record patient data on a clinical chart, deal with most communicative situations likely to arise when talking with a dental patient according to the different language registers. Students will be also expected to have acquired the ability to use health information and communication technology as a useful support for diagnostic, therapeutic and preventive health practice. Students should also be able to use the common tools for medical data analysis (e.g. electronic spread sheet) as well as to implement and manage a simple electronic health record.</p> <p>Making judgments At the end of the course students will be expected to have acquired: 1) the ability to identify, in an autonomous way, the different registers of English, the relevant specialized terminology of Dentistry, the consequences arising from proper/improper use of a foreign language in dental contexts; 2) the skills needed to handle challenging situations in their own working lives within the field of the English language and computer science applications.</p> <p>Communicative skills Students should be able to report (in a clear and confident way) on the topics dealt with during the course and related to dentist-patient communication and Computer Science.</p> <p>Learning skills This course does not pretend to cover all the aspects and topics of English for Dentistry and Computer Science but it aims at developing students' awareness of the acquired competences for self-directed learning of content and methods necessary and required in their professional lives.</p>
ASSESSMENT METHODS	<p>Written exam A two-part written exam composed by 38 multiple choice questions (24 questions concerning the English language and 14 questions concerning Computer Science) will measure and assess students' English language and Computer science level and quality of knowledge and competence. The scores are calculated as follows: 0,79 for each correct answer. The minimum number of correct answers needed to pass the exam is 23 correct answers (a minimum of 15 correct answers concerning the English language and a minimum of 8 correct answers concerning Computer Science).</p> <p>The candidate is evaluated according to the level of his knowledge and receives an assessment out of thirty as final grade (the pass mark is 18\30). Assessment criteria are available on the School of Medicine and Surgery website at http://www.unipa.it/scuole/dimedicinaechirurgia</p>
TEACHING METHODS	Lessons.

MODULE COMPUTER SCIENCE

Prof. SALVATORE VITABILE

SUGGESTED BIBLIOGRAPHY

D. Sciuto, G. Buonanno, L. Mari; Introduzione ai sistemi informatici 5/ed, McGraw-Hill.
 A. Brogi, A. Martinelli, V. Gervasi, P. Manghi, A. Fabrizio, G. Pacini; Il foglio elettronico per Medicina e Farmacia, Collana IT4PS, McGraw-Hill.
 P. Manghi, A. Brogi, V. Gervasi, A. Martinelli, G. Fiorentino, A. P. Pala; Le basi di Dati per Medicina e Farmacia, Collana IT4PS, McGraw-Hill.
 Dispense integrative e lucidi proposti dal docente.

AMBIT	50445-Inglese scientifico e abilità linguistiche, informatiche e relazionali, pedagogia medica, tecnologie avanzate e a distanza di informazione e comunicazione
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims at providing basic knowledge associated to the Information and Communication Technology, as a useful support for diagnostic, therapeutic, and preventive health practice. The course offers an introduction to computer systems, taking a Personal Computer as the driving paradigm and analysing the related operating principles of the basic infrastructures: the hardware, the software, and the network infrastructures. In addition, the course will introduce the use of two main software tools for data analysis and management in health domain: the electronic spreadsheet and the database. In particular, databases will be presented as the basic element for electronic health record development and management. An introduction to the search strategies in the most common on-line databases is the final part of the course.

SYLLABUS

Hrs	Frontal teaching
3	Course introduction; Data and Information; Coding Systems.
2	Information representation and coding.
2	Main characteristics of algorithms, programming languages, and source codes.
4	Hardware Infrastructure: introduction to computer architecture; central processing unit; memory systems; I/O devices.
3	Software Infrastructure: features and purposes of an operating system; major components of an operating system.
2	Network Infrastructure: data and information transmission; computer networks.
2	A brief introduction to TCP/IP; World Wide Web and e_mail.
1	Application programs.
1	An introduction to electronic spreadsheets.
4	Electronic spreadsheets: definition and management of a patient diet.
1	An introduction to databases and DBMS.
4	Database and DBMS: definition and management of electronic health records.
1	Search strategies in Google and Pubmed.

MODULE SCIENTIFIC ENGLISH LANGUAGE

Prof.ssa TATIANA CANZIANI

SUGGESTED BIBLIOGRAPHY

Per la parte grammaticale:

Hird, J., The Complete English Grammar for Italian Students, Oxford University Press.

(consigliato/recommended) Swan M., Practical English Usage, Oxford University Press (per livelli superiori al B1).

Per la parte di Inglese specialistico (a scelta uno dei seguenti testi\ recommended but not compulsory):

Mungra, P., Reading Skills in Medical English, Delfino Editore

Bettinelli et al., English for Medicine, Hoepli

AMBIT	50445-Inglese scientifico e abilità linguistiche, informatiche e relazionali, pedagogia medica, tecnologie avanzate e a distanza di informazione e comunicazione
INDIVIDUAL STUDY (Hrs)	75
COURSE ACTIVITY (Hrs)	50

EDUCATIONAL OBJECTIVES OF THE MODULE

The main focus of this course is to improve students' vocabulary, grammar, and reading skills with particular attention to doctor-patient communication. The teaching objectives of this course are: 1) enhancement of students' ability to communicate with their patients using different language registers; 2) improvement of students' reading comprehension ability while browsing English Medical websites. Special attention will be given to the specialized lexicon, and the lexical composition and reading of specialized texts in order to guide students to use English in their professional daily life and research.

SYLLABUS

Hrs	Frontal teaching
1	Subject and object personal pronouns, possessive adjectives and pronouns.
2	Regular and irregular plurals and the plural of nouns of Greek and Latin origin; the Possessive Case.
1	Cardinal and ordinal numbers. How to say the date and the time.
1	Definite and indefinite articles. Use of the definite article before parts of the body and diseases. Indefinite Pronouns.
1	Time and place prepositions.
1	Relative and question pronouns.
1	Comparative and superlative adjectives.
3	The nominal style in medical English. Particular use of the -ing form to build up discourse. The gerund. Some prepositions followed by the -ing form.
3	The Simple Present of auxiliary and non auxiliary verbs. The Present Continuous.
3	The forms of future.
1	The Imperative.
2	Simple Past and Present Perfect. Frequency adverbs and time expressions.
2	Present and Past Perfect Simple and Continuous and Duration Form.
3	The Conditionals: 0, 1st, 2nd and 3rd type with particular attention to doctor/patient communication. Future in the past.
2	Present and Perfect Conditional and Past Perfect.
3	Modal verbs.
1	Question Tags.
2	Phrasal verbs. The Passive Form.
2	Make\Let\Get\have + infinitive.
1	Reported Speech and modifiers.
9	Doctor – patient communication in English. Asking about personal details and filling into an Admission card (1) Asking about pain: location, duration and type of pain (2) On examination: Instructions (2) General health questions concerning: - Medical history (2) - Family History (2)
2	Medical Written Communication Research article: IMRAD
3	Specialized lexicon: Human body, clinical chart, medical specialties, health professions, Hospital wards/departments, medical acronyms and initialisms. Medical and lay terms when talking about symptoms in doctor-patient communication.