



UNIVERSITÀ  
DI SIENA  
1240

UNIVERSITY OF SIENA

***COURSES ENTIRELY TAUGHT IN ENGLISH - NON E.U. STUDENTS***

**PROGRAMMES AND TESTS A.A. 2018/2019**

**IMPORTANT NOTE:** We suggest the students to arrive one/two weeks before the starting of the classes, for completing the arrival/enrollment procedures on time and a few days before the date of the exam, if it is expected.

## **ADMISSION TO THE FIRST LEVEL DEGREE COURSES (BACHELOR LEVEL)**

**SCIENZE ECONOMICHE E BANCARIE – CURRICULUM IN ECONOMICS AND BANKING**

**ECONOMIA E COMMERCIO – CURRICULUM IN ECONOMICS AND MANAGEMENT**

To enroll in the Economics and banking programme or in the Economics and management programme, as a candidate, you must have a sufficient knowledge of fundamental topics in Mathematics. If you do not, please note that you will not be admitted in the bachelor course because the selection procedure will focus on verifying your knowledge of the following topics. The first level degree course in Economics and banking and the first level degree course in Economics and management are restricted-access programmes: this means that the applicants, in whatever system they have been educated, must satisfy specific admission requirements (I) and pass an entrance exam (II) in order to be enrolled. Only those students meeting the admission criteria and passing the exam (see below) will be admitted to the courses, in a number within the quota set by the Ministry.

### **(I) ADMISSION REQUIREMENTS**

A) English proficiency: at least B1 level (the students will have to get the B2 level within January 2019. Beyond this date they will not be allowed to take additional exams). For the international certifications required, check this link [www.cla.unisi.it/it/node/743](http://www.cla.unisi.it/it/node/743)

B) To enroll in the Economics and banking programme and in the Economics and management programme, as a candidate, the applicant must have a sufficient knowledge of fundamental topics in Mathematics. If you do not, please note that you will not be admitted in the bachelor courses because the selection procedure will focus on verifying your knowledge of the following topics.

Topics in Precalculus:

Sets, Real numbers. Complex numbers. Solving inequalities and equations. Properties of functions. Function composition. Trigonometry. Trigonometric functions and graphs. Trigonometric identities and equations. Exponential functions and equations. Properties of the Logarithm. Logarithmic equations. Linear functions in the plane: properties and graphs. These topics can be found in the following books:

- 1) the first seven chapters of Precalculus – Mathematics for calculus J. Stewart, L. Redlin, S. Watson
- 2) the first six chapters of Precalculus K.V. Neal, R.D. Gustafson. F.D. Hughes
- 3) the first eight chapters of Precalculus - With Unit - Circle Trigonometry D. Cohen, T.B. Lee, D. Sklar

## (II) ENTRANCE EXAM

The entrance exam will be held on **17<sup>th</sup> September 2018** - Scuola di Economia e Management - Piazza San Francesco, 7/8 - Siena

The written exam is aimed at verifying the student's knowledge of the above mentioned topics of mathematics. Only the candidates who will pass the exam will be admitted, within the quota set by the ministry.

SAT/ACT certifications responses:

### **Early selection**

Regarding only those students who submitted an official ACT score or an official SAT Score Report before the application closing date 10<sup>th</sup> June 2018. The students who have received a final letter with no test indicate in must arrive in Siena **before 10<sup>th</sup> September 2018**. The students who fail to arrive by this date will be considered as they had not accepted to enroll.

### **Late selection**

Regarding those students who have not submitted an official ACT score nor an official SAT Score Report before the application closing date 10<sup>th</sup> June 2018. The students are required to sit the SEM entrance exam (see II) in Siena on **17<sup>th</sup> September 2018**. However, the students who will have provided an official ACT score or an official SAT Score Report before the date of the SEM entrance exam may be exempted from taking the exam. By 21<sup>st</sup> September 2018, on the basis of the test score, the list of the admitted students will be provided.

**(CLASSES OF BOTH THE BACHELOR COURSES WILL START ON 24<sup>TH</sup> SEPTEMBER 2018)**

## **ADMISSION TO THE SINGLE CYCLE DEGREE COURSE**

### DENTISTRY AND DENTAL PROSTHODONTICS

Any information about the deadlines and how to complete the admission exam is available in the notice for selection (bando) on the web pages

[www.unisi.it/didattica/immatricolazioni-e-iscrizioni/corsi-numero-programmato-2018-2019/dentistry-and-dental](http://www.unisi.it/didattica/immatricolazioni-e-iscrizioni/corsi-numero-programmato-2018-2019/dentistry-and-dental)

## **ADMISSION TO THE SECOND LEVEL DEGREE COURSES (MASTER LEVEL)**

### **FINANCE**

### ASSESSMENT OF SKILLS AND COMPETENCIES

Candidates may be required to sit for a written exam and/or an interview, aimed at verifying their skills and competencies. THE ENTRY EXAM IS JUST FOR STUDENTS WHO GOT A LETTER WITH THE DATE OF THE

ENTRANCE EXAM; THE OTHER STUDENTS, WHO GOT THE FINAL ADMISSION LETTER WITH NO EXAM DATE, DON'T HAVE TO GET THE ENTRANCE EXAM.

#### ENTRANCE EXAM:

The entrance exam will be held on Wednesday **October 3<sup>rd</sup> 2018** at 2 pm. It will take place in the meeting hall of the *Department of Business and Law* (DISAG), piazza S. Francesco, 7 in Siena (first floor).

The Commission for Finance will be composed of Proff. Giampaolo Gabbi and Costanza Consolandi (substitutes: proff. Nicola Dimitri, Claudio Pacati, Antonio Roma, Marcello Basili).

#### MODE

The test will consist of a written exam and/or an oral interview, covering three disciplinary areas: Macroeconomics, Financial Mathematics, and Financial Markets.

Topics and suggested textbooks:

##### I – Macroeconomics (monetary and financial aspects)

The financial system: operations and institutions; the role of the Central bank; money and bond markets, interest rate determination; term- structure of interest rates; open market operations; money and monetary base; definition of monetary aggregates M1, M2, M3, money supply and demand; monetary expansions/contractions in the IS - LM model; the deposit multiplier.

Suggested textbooks: Blanchard O., *Macroeconomics*, 7th Edition, Pearson, 2017.

Mishkin F. and Eakins S., *Financial Markets and Institutions*, 8th Edition, Pearson, 2009.

II – Financial Mathematics: Basic quantities (factors, rates, yields), law of simple interest (linear law), law of compound interest (exponential law), annuities and amortisation; internal rate of return; term structure of interest rates (spot and forward); duration and interest rate risk; floating rate notes; interest rate swaps.

Suggested textbooks: David G. Luenberger, *Investment Science*, 2nd Edition, Oxford University Press, 2013 (Ch.1 - 4, 12 – up to 12.5, including).

G. Castellani G., De Felice M., Moriconi, F., *Manuale di Finanza vol. I (Tassi d'interesse. Mutui e obbligazioni)*, Il Mulino, 2005.

##### III – Financial Markets

Intermediation circuits and financial balances of economic operators; financial instruments traded in markets and their derivatives; pricing and valuation models for bonds, equities and their derivatives; construction of financial portfolios; performance measurements of portfolios.

Suggested textbooks: Hull J. C., *Options, Futures, and Other Derivatives*, Pearson College Division, 9th Edition, 2014 (Ch.1 – 13, 15, 19 – 20).

Caparrelli F., *Economia del mercato mobiliare*, Milano, McGraw - Hill, 2004.

Fabrizi P. L., *L'economia del mercato mobiliare*, Milano, Egea, 2006.

**(CLASSES WILL START ON 15<sup>TH</sup> OCTOBER 2018)**

## MEDICAL BIOTECHNOLOGIES

The second level degree course in Medical biotechnologies is a restricted-access programme: it means that the applicants, in whatever system they have been educated, must satisfy specific admission requirements and pass an entrance exam in order to be enrolled. Only those students meeting the admission criteria and passing the entrance exam will be admitted to the course, in a number within the quota set by the Ministry.

The mandatory entrance exam will take place at the Department of Medical biotechnologies in Siena on **13<sup>th</sup> September 2018** at 9.00 am. -Policlinico S. Maria delle Scotte, Viale Bracci, 1 in Siena at "Centro Didattico", first floor, Room 9.

The selection is carried out through an interview aimed at evaluating not only the knowledge of the English language but also the skills in the **following subjects**:

- histology : molecular cytology, tissue structure
- biochemistry and molecular biology: cellular and molecular biochemistry
- human pathology: molecular and phenotypic bases of pathological processes
- immunology: knowledge of the immune system
- microbiology: general knowledge of bacteriology and virology
- genetics: basics of classical genetics.

Each candidate is assigned a score in hundredths; the candidates who have obtained at least 60/100 are admissible to the course. If the number of the candidates with a score of at least 60/100 exceeds the quota of the seats, a ranking of merit is drawn up. So, after that exam, in case of positive result and within the quota set by the ministry, the students will be admitted. If not, they can choose another course at the University of Siena or go to another Italian university.

**(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)**

### **VERY IMPORTANT NOTE:**

**NO admission tests or exams are foreseen for the below mentioned second level degree courses offered in the English language. However, please note that the students will be enrolled in order of their arrival in Siena until the available places have been occupied:**

<b>ECONOMICS (CURRICULUM IN ECONOMICS)</b>	<b>(CLASSES WILL START ON 15<sup>TH</sup> OCTOBER 2018)</b>
<b>INTERNATIONAL ACCOUNTING AND MANAGEMENT</b>	<b>(CLASSES WILL START ON 15<sup>TH</sup> OCTOBER 2018)</b>
<b>INTERNATIONAL STUDIES (CURRICULUM IN EUROPEAN STUDIES) 2018)</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>LANGUAGE AND MIND: LINGUISTICS AND COGNITIVE STUDIES</b>	<b>(CLASSES WILL START ON 15<sup>TH</sup> OCTOBER 2018)</b>
<b>PUBLIC AND CULTURAL DIPLOMACY 2018)</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>BIOTECHNOLOGIES OF THE HUMAN REPRODUCTION</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>GENETIC COUNSELLORS</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>BIOLOGY (CURRICULUM IN BIODIVERSITY AND ENVIRONMENTAL HEALTH) 2018)</b>	<b>(CLASSES WILL START ON 22<sup>ND</sup> OCTOBER 2018)</b>
<b>CHEMISTRY</b>	<b>(CLASSES WILL START ON 15<sup>TH</sup> OCTOBER 2018)</b>
<b>APPLIED MATHEMATICS</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>COMPUTER AND AUTOMATION ENGINEERING 2018)</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>ELECTRONICS AND COMMUNICATIONS ENGINEERING</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>
<b>ENGINEERING MANAGEMENT</b>	<b>(CLASSES WILL START ON 1<sup>ST</sup> OCTOBER 2018)</b>

## ENGLISH LANGUAGE ENTRY REQUIREMENT

The students who wish to enroll in the bachelor and the master degree courses completely taught in English are required to have at least the B2 level of English language (according to the Common European Framework of Reference for Languages).

They must present the original copy of one of the following international certificates - the only ones approved by the University of Siena - to the front office of the University Language Centre (called CLA):

- IELTS with minimum score of 5.5
- Cambridge First Certificate
- TOEFL with minimum score of 87 (internet-based)
- ISE II – Integrated Skills in English by Trinity College London

Please note that the students who have not been awarded any of the above certificates should pass the B2 level English exam at the University Language Centre after their enrollment in the university before January 2019. They will not be allowed to take any other exams until they reach the B2 level of the English language.

### B2 LEVEL ENGLISH EXAM AT THE UNIVERSITY LANGUAGE CENTRE (CLA)

The B2 level English exam is composed of two parts, **Reading** and **Use of English**. A minimum of 60% (the average of the two parts) is necessary in order to pass the exam.

One hour is allowed for the completion of the first part: **Reading**: 3 reading exercises (30 questions)

- Part 1: reading comprehension, with questions and multiple-choice answers (8 questions, 2 points each)
- Part 2: completion of an article by inserting the given sentences (7 questions, 2 points each)
- Part 3: reading of a text and associating the given sentences with the people referred to (15 questions, 1 point each)

45 minutes are allowed for the completion of the second part: **Use of English**: 4 exercises (42 questions)

- Part 1: choose the correct word (among four options) to fill in the gaps in a text (12 questions)
- Part 2: complete an extract with 12 gaps
- Part 3: reading of a text and filling in the gaps with words derived from those in bold print (for example, "able" can become "ability" or "enable" or "disable", etc.) (10 questions)
- Part 4: rewrite a sentence, using the given word, so that it has the same meaning as the first sentence (8 questions, 2 points each)

**A self-study online course is available upon request for the exam preparation (clatutors@unisi.it).**

**You can register directly for the exam at the CLA front office.**

### NEXT B2 SESSIONS

- **11<sup>th</sup> September 2018** (computer-based): enrolment from 20<sup>th</sup> August to 4<sup>th</sup> September 4<sup>th</sup> 2018
- **5<sup>th</sup> October 2018** (computer-based): enrolment from 13<sup>th</sup> to 27<sup>th</sup> September 2018
- **15<sup>th</sup> November 2018** (computer-based): enrolment from 25<sup>th</sup> October to 8<sup>th</sup> November 2018
- **11<sup>th</sup> December 2018** (computer-based): enrolment from 11<sup>th</sup> November to 4<sup>th</sup> December 2018

**Contacts for linguistic topics**

CENTRO LINGUISTICO D'ATENEO – UNIVERSITY LANGUAGE CENTRE

Front Office

Piazza San Francesco, 8

0577-235535

[infocla@unisi.it](mailto:infocla@unisi.it)

**Opening hours:**

from Monday to Friday from 10:00 am to 1:00 pm