

Euromaster® Renewal Application

Università degli Studi di Camerino (UNICAM)

Piazza Cavour 19/f 62032 Camerino MC

Scuola di Scienze e Tecnologie

**Laurea Magistrale in Chemistry and Advanced Chemical
Methodologies**

(Master Degree in Chemistry and Advanced Chemical Methodologies)

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Number of credits: 120 ECTS.

Degree Programme introduced from the Academic Year 2011-2012.

Entry qualifications for this Degree Programme: First cycle degree in Chemistry.

Degree Programme awarded on June 28, 2012

Certificate Number SCI-EM12-01

1. Programme Status

1.1 The EuroLabel® labelled programme was kept in the original scheme or there was anything changed or amended? Please describe.

Chemistry degree programme of Camerino University has been awarded the Euromaster label on June 28, 2012. The original scheme has been changed, as shown in Table 1, to warrant a greater flexibility in the *curriculum*, in order to allow students to target their training more consistently to their interests. All the activities are taught in English. The analysis performed in the frame of the Quality Assurance system active in Camerino University, evidenced some problems overcome with these amendments. The Quality Assurance system adopted from Camerino University has been carefully described in the previous Self-Evaluation report.

The changes introduced in the Academic Year 2018/2019 are due to the evaluation of the performances of the students enrolled in this Degree course and on the feedback from the Joint Committee.

Table 1 provides an outline of the structure of the study programme divided according to years 1-2 (corresponding to 120-credit programmes). Detailed informations on Chemistry degree can be found at the following link:

https://didattica.unicam.it/Guide/PaginaCorso.do;jsessionid=4B57CABE1B3DBA927BDA649E0647F4DE.esse3-unicam-prod-01?corso_id=10030

Table 1

YEAR 1

| Course unit title | Course No | Credits (ECTS) | Compulsory (C) Semioptional (S) Elective (E) | Module | Total Teaching Hours | | |
|---------------------------------------|-----------|----------------|--|---------------------------------------|----------------------|-----------|-----------------|
| | | | | | Lecture | Practical | Other |
| Advanced Physical Chemistry | 1 | 6 | C | | 42 | | |
| Environmental Chemistry | 2 | 6 | C | | 42 | | |
| Laboratory of Environmental Chemistry | 3 | 6 (4+2) | C | Laboratory of Environmental Chemistry | 7 | 30 | |
| | | | | REACH | 14 | | |
| Spectroscopic methods | 4 | 8 (4+4) | C | Organic Chemistry | 21 | | 10 Exercises |
| | | | | Inorganic Chemistry | 21 | | 10 Exercises |
| | 5 | 8 (4+4) | C | Advanced Analytical Chemistry | 28 | | |

| | | | | | | | |
|--|---|------------|-----|---|----|----|--|
| Advanced Analytical Chemistry and Laboratory | | | | Laboratory of Advanced Analytical Chemistry | 7 | 30 | |
| Advanced Organic Chemistry | 6 | 6 | C | | 42 | | |
| Advanced Inorganic Chemistry | 7 | 6 | C | | 42 | | |
| Laboratory of Synthesis | 8 | 6 (3+3) | C | Laboratory of Inorganic Chemistry | | 30 | |
| | | | | Laboratory of organic Chemistry | | 30 | |
| Semioptional/Elective course | 9 | 5 | S/E | | | | |
| TOTAL | | 57 | | | | | |

YEAR 2

| Course unit title | Course No | Credits (ECTS) | Compulsory (C) Semioptional (S) Elective (E) | Module | Total Teaching Hours | | |
|------------------------------|-----------|----------------|--|--------|----------------------|-----------|-------|
| | | | | | Lecture | Practical | Other |
| Semioptional/Elective course | 10-21 | 5 | S/E | | | | |
| Semioptional/Elective course | 10-21 | 5 | S/E | | | | |
| Semioptional/Elective course | 10-21 | 5 | S/E | | | | |
| Semioptional/Elective course | 10-21 | 5 | S/E | | | | |
| Semioptional/Elective course | 10-21 | 5 | S/E | | | | |
| Chemistry Project | 22 | 10 | C | | | | |
| Thesis | 23 | 28 | C | | | | |
| TOTAL | | 63 | | | | | |

The semioptional/elective course can be chosen in the list reported below (from No 10 to No 21).

The elective courses can be selected either from the remaining unselected address or from the proper courses of the Master Degrees of the UNICAM, recognized by the Chemistry Didactical Commission.

| | | | | | | | |
|---------------------------------|----|---|-----|--|----|----|--|
| Sample preparation and Analysis | 10 | 5 | S/E | | 21 | 20 | |
|---------------------------------|----|---|-----|--|----|----|--|

| | | | | | | | |
|---|----|---|-----|--|----|----|--------------|
| Energy production and storage | 11 | 5 | S/E | | 28 | 10 | |
| Forensic and Archaeometric Diagnostics | 12 | 5 | S/E | | 21 | 20 | |
| Chemometrics | 13 | 5 | S/E | | 21 | | 20 Exercises |
| Environmental remediation | 14 | 5 | S/E | | 35 | | |
| Green Chemistry | 15 | 5 | S/E | | 28 | 10 | |
| Bioorganic Industrial Chemistry | 16 | 5 | S/E | | 35 | | |
| Organic Stereochemistry and mechanisms | 17 | 5 | S/E | | 35 | | |
| Polymer chemistry and applications | 18 | 5 | S/E | | 35 | | |
| Supramolecular and Bioinorganic Chemistry | 19 | 5 | S/E | | 35 | | |
| Organometallic Chemistry and catalysis | 20 | 5 | S/E | | 35 | | |
| Inorganic Materials and Applications | 21 | 5 | S/E | | 35 | | |

Each student can create a self-built study plan that will be verified and accepted from an appropriate commission.

1.2 In the Chemistry degree course there aren't electronic media used.

1.3 The actual assignment of the credit units is as follow:

- lecturing: 1 credit unit corresponds to 7 h of lecturing and 18 h of individual study work.
- tutorials/problem-solving classes: 1 credit unit corresponds to 10 h tutorials/ problem-solving classes (depending on the activity requirements/bonus for the final examination) and 15 h of individual study work.
- laboratory courses: 1 credit unit corresponds to 10 h laboratory work and 15 h of individual study work.

1.4 The graduated in Chemistry in UNICAM receive the diploma supplement organized following the European Commission, Council of Europe and UNESCO/CEPES model in which is mentioned the awarded Euromaster label.

1.5 The degree certificate given to the graduates quotes the Euromaster label.

2. Graduates

The following table shows the number of graduated from the Chemistry course for every graduation year.

| Cohort | 2013/2014 | 2014/2015 | 2015/2016* |
|--------------|-----------|-----------|------------|
| N. Graduates | 14 | 26 | 13 |

3. Employability

Unicam's Stage and Placement office promotes a series of activities to facilitate the employment of graduates, manages the contacts with ALMALAUREA data bank for publication of graduate's CVs and with the Companies interested in their competences. From Alma Laurea report on graduates' employment condition, results that 35.3% of graduated in 2016 is enrolled in a PhD course.

4. Other cycle label

Bachelor Degree Course in Chemistry– Class L27, has been awarded of Eurobachelor label on December 15, 2010.

5. Mobility

Master Degree in Chemistry and Advanced Chemical Methodologies activated several bilateral agreements with other European Universities to allow students mobility under the Erasmus Plus and Erasmus Traineeship programs. In addition there are two agreements for Double Degree programs with University of Catamarca (Argentina) and Instituto Superior Tecnico of Lisbon. In the following table is summarized the number of students involved in A.A, 2016/2017 in mobility programs:

| N. of Students | Mobility program |
|----------------|-----------------------------|
| 11 | Double degree/Erasmus |
| 2 | Erasmus Traineeship |
| 2 | Teaching mobility (ingoing) |

Statement of Applicant

I, Professor Silvia Zamponi, Responsible of the Degree Courses in Chemistry of the School of Science and Technology of the University of Camerino, Italy, hereby agree that this School will, if renewed the Eurolabel, continue to recognize equivalent degrees in Chemistry awarded by other institutions holding the Eurolabel as providing automatic right of access (but not of admission) to higher educational or qualification programs offered by this School.

I hereby agree that this School will, if awarded the Euromaster label, display the official Euromaster logo on the website of this institution and remove this label from the website as soon as the validity term of the awarded Euromaster label expired.

I hereby authorize ECTN to archive information provided as well as to use it (without giving source) for scientific, statistical, promotional, and educational use.

I agree that the Self-Evaluation Report together with the Site Visit Report will be published on the ECTN website in case the label is awarded.

Camerino



Prof. Silvia Zamponi

Attached to this document the following documentation:

1. Example of Diploma Supplement issued by the institution.
2. Example of certificate mentioning Eurolabel label given to the student.
3. Copy of the Label Award Letter.
4. Copy of the Label Certificate.