



## Santa Cecilia National Academy

### Electronic Music Course – Complementary Module

### Electroacoustic music composition

### 2024–2025 Regulations

Teacher Michelangelo Lupone

#### Presentation

It is specifically aimed at students enrolled in the Master Course in Composition of the Santa Cecilia National Academy.

The Complementary Module aims to provide the student with the speculative and technical tools needed to tackle, in a professional and autonomous way, the composition with electronic means, both through an analytical path of forms, processes and materials of electro-acoustic and computer music, and through the constant compositional practice connected related with the activities of the Master Course in Composition.

The course has a three-year study plan divided into annual modules.

Based on the skills already acquired, students will be able to access the first year, or one of the following years of the course, in relation to the results of the admission exam. Each annual module is divided into monthly sessions; each student is entitled to 12 hours of individual lessons, 3 of which of a workshop nature, and to participate in the lessons of the other students of the course either in presence or in remote mode.

The lessons are held in the Paolo Ketoff Studio, at the Auditorium “Parco della Musica-Ennio Morricone” in Rome, or in another location within the Santa Cecilia National Academy.

Musicians may be also involved during workshop activities.

At the end of each year of attendance the composition and performance of a piece with live electronics is foreseen and a certificate of attendance will be issued, subject to regular participation in the scheduled lessons and artistic activities. At the end of the three-year period a Certificate of Merit will be issued from Santa Cecilia National Academy.

#### Admission

##### Admission requirements – Complementary Module

Enrollment in the Composition Master Course of the Santa Cecilia National Academy.

Also:

- **For admission to the first year:** basic computer skills;
- **For admission to the second or third year:** computer science and electro-acoustic skills in the compositional field.

##### Applications for admission – Complementary Module

Applications for admission must be sent by e-mail to the address [didattica@santacecilia.it](mailto:didattica@santacecilia.it), taking notice to attach:

- Curriculum of studies and/or artistic activities carried out in the electro-acoustic and/or computer-assisted composition;
- The scores in PDF format for admission to the second or third year.

Applications must be received **by October 16, 2024**.

##### Program of admission exams

**Admission to the first year:** aptitude interview.

**Admission to the second or third year:** presentation of an acousmatic or electro-acoustic piece or for live electronics; interview.

Candidates for enrollment in the second or third year must send the score of the work they intend to present for the exam in PDF format; it is also possible to attach to the scores any recordings of the compositions, if available.

In the case of particularly large files, the scores and/or recordings can be sent via WeTransfer to the e-mail address [didattica@santacecilia.it](mailto:didattica@santacecilia.it) by the same date scheduled for sending applications (**October 16, 2024**).

Entrance examinations will be held at the Academy's headquarters at Via Vittoria 6 (Rome) the **13 November 2024**.

The candidates shall appear at the examination bearing a valid identification document, as well as the musical material for their examination programme.

The results of the entrance exams will be communicated on the same day.

No supplementary exam session are foreseen.

In the presence of a number of suitable candidates greater than the available places, those who have achieved the highest marks in the admission exams will be admitted to the course.

**Decisions made by Examination Panels are final and indisputable.**

## Course Summary Outline for the Academic Year 2024- 2025

| Complementary Module   | Electro-acoustic music composition   |  |
|--|--|--|
| Maximum duration   | From one to three years  |  |
| Maximum number of students   | 6 – six  |  |
| Admission requirements Year I  | Basic computer skills  |  |
| Admission test Year I  | Aptitude interview   |  |
| Entry requirements Year II or III  | Computing and electro-acoustic skills in the composition field   |  |
| Test for enrollment in Year II or III  | Interview and acousmatic piece or electro-acoustic piece or for live electronics   |  |
| Lessons  | Individually in person and remote group participation  |  |
| Treatment  | Theoretical and practical with exercises on topics covered   |  |
| Passage test Year I  | Composition and production of an acousmatic piece  |  |
| Passage test Year II   | Composition and production of a piece for instrument and electronics   |  |
| Final test   | Composition and production of a piece with live electronics  |  |
| Lesson hours per student   | 12 - twelve  |  |
| Workshop hours per student (year III only) – support for the production of live electronics    | 3 – three hours are held in the Paolo Ketoff Studio, also with any instrumentalists, or in another location set up for the purpose |  |
| <b>Study plan – Materials</b>  |  |  |
| Year I   | Year II  | Year III   |
| Analog technique and technology. Analysis of historical works and treatment of concrete sound. | Analysis of computer music works.  | Synthesis of audio signals 3. Processing of the audio signal in real time. |
| Digital domain and fundamentals of music computing.  | Synthesis of audio signals 2.  | Algorithmic design for live electronics.                                   |
| Sampling and quantization. Synthesis of audio signals 1.                                       | Sound analysis and simulation of acoustic instruments.   | Original piece for instrument(s) and live electronics.                     |
| Computer-assisted music composition 1.   | Computer-assisted music composition 2.   |  |
| Original acousmatic piece.   | Original piece for instrument(s) and digital support.  |  |
| <b>Reference bibliography</b>  |  |  |
| Year I   | Year II  | Year III   |
| Agostino Di Scipio, <i>Circuiti del tempo</i> , Libreria Musicale Italiana, Lucca, 2021        | Previous texts   | Previous texts   |
| Curtis Roads, <i>The computer music tutorial</i> , The MIT Press, 1996                         | Lecture notes by the teacher   | Lecture notes by the teacher   |
| Pieces and scores by various authors   | Pieces and scores by various authors   | Renato Spagnolo, <i>Acustica</i> , UTET, Novara, 2015                      |
|  |  | Pieces and scores by various authors                                       |

**N.B.** Students must have a computer of class i7 or higher to do the music design and production work. The working platforms used in the Electro-acoustic Music Composition course are chosen by the student, they can be both *open source* (eg. Pure Data, Csound, Super Collider, OpenMusic, Audacity), and proprietary (eg. Max/MSP, Ableton, ProTools, Studio One, Reaper, Nuendo).

## Fees

### Examination and attendance fees

- Exemption from entrance fee;
- € 1.000,00 yearly attendance.

All payments, specifying as reason “**Electronic Music Course – Complementary Module**” may be made via:

- **postal account payment**  
no. 30406003, made out to Accademia Nazionale di Santa Cecilia – *Fondazione*
- **wire transfer**  
c/c n. 9872, made out to Accademia Nazionale di Santa Cecilia – *Fondazione*  
Banca Nazionale del Lavoro (BNL) Agenzia n. 6340 di Roma, Via del Corso, 471  
IBAN: IT31 I 010 0503 2400 0000 0009 872  
SWIFT: BIC BNL IITRR
- **Paypal** on Fondazione’s website at this link <https://santacecilia.it/alta-formazione/paypal>

**The receipt of the payment for attendance should be sent to the academic office (*Segreteria Didattica*) before the start of classes.**

Students in arrears with their course tuition and examination fees will not be admitted to lessons or to examinations.

Students may pay the attendance fee in two instalments of equal amount, the second of which is to be paid by no later than 01 March.

Withdrawal from the course shall not entitle the student to be refunded what was paid.

## Information and contacts

### Academic office (*Segreteria Didattica*)

Accademia Nazionale di Santa Cecilia

Via Vittoria, 6 – 00187 Roma

Tel: +39 0632817.348 – 321 – 305

E-mail: [didattica@santacecilia.it](mailto:didattica@santacecilia.it)

Please forward all requests and communications by e-mail to the academic office (*Segreteria Didattica*), specifying the purpose of the request for quicker handling.

Certificates of attendance or other kind of certificates can be requested by the form:

<https://santacecilia.it/alta-formazione/richiesta-certificato/>