Master’s Degree in Biotechnology
Programme Course 2016/2017

Information

Interfaculty Master’s Degree
The Master’s Degree in Molecular Biotechnology offers 4 possible itineraries covering different branches of biotechnology:, Photosynthetic organisms / Microorganisms / Health and Industry / Nanobiotechnology.

The Master’s Degree is organised on a modular basis. The student must complete 60 ECTS credits over one academic year, of which 30 credits are theoretical and practical modules (3 compulsory modules of 6 ECTS credits each and one specialised module of 12 ECTS) and the other 30 ECTS credits consists of an orientation module focused on introduction to research in one of the research groups attached to the Graduate Program or one of the Biotechnology Companies associated with the Autonomous University of Madrid. At the end of the Master’s Degree the student must submit a written Thesis covering the research project, or their professional activities, for presentation and defence before a board of examiners.

Mandatory Credits: 48 ECTS
Optional Credits: 12 ECTS

Specialization Itineraries: The Master’s Degree in Biotechnology includes 4 specialist fields (Microorganisms Biotechnology, Plant Biotechnology, Health Biotechnology and Industrial Biotechnology / Nanobiotechnology).

Modules:
Mandatory: BM1
Mandatory Master: BT1, BT2
Basic Optional (Choose 2)*: BT3, BT4, BT5, BT6

* Alternatively, instead of one of them may take an optional subject of the Master’s Degree in Molecular Biomedicine.

Orientation modules (Master's Thesis): BT7

Most Master’s Subjects are taught in English, so it is necessary to be proficient in that language. B2 level certification or higher is recommended (in accordance with the Common European Framework of Reference). The written work and results and conclusions of the Master’s Project must be written in English whilst the oral presentation and defence can be conducted in Spanish or English.

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Semester</th>
<th>Status</th>
<th>ECTS</th>
<th>Module / Itinerary</th>
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<tbody>
<tr>
<td>32811</td>
<td>Critical Analysis of Scientific Literature. Applied Statistics for Molecular Biosciences</td>
<td>1</td>
<td>Mandatory</td>
<td>6</td>
<td>BM1</td>
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<td>31057</td>
<td>Genetic Engineering and Protein</td>
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<td>BT1</td>
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<td>32858</td>
<td>Strategies and Organization of Biotechnology Companies</td>
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<td>32859</td>
<td>Biotechnology of Photosynthetic Organisms *</td>
<td>1</td>
<td>Optional</td>
<td>6</td>
<td>BT3</td>
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</table>
(* ) Have to take two electives. It could be choose an optional subject of the Master's Degree in Molecular Biomedicine instead of one of them.

According to the agreements of the Committee on Postgraduate Studies at UAM, those elective subjects having less than five students enrolled, may not be taught. Involved students will be advised for relocation and enrollment in other subjects.

The offer of optional subjects could suffer minor changes before the start of lessons for reasons of adjustments in Master’s teaching organization, in which case, it will be properly announced.