This unique master degree programme focuses on state-of-the-art methodology, knowledge, insight and academic skills, enabling graduates to unravel the molecular mechanisms of health and disease as independent researchers.

The central themes of the specialization Clinical Molecular Sciences of the Master of Biomedical Sciences at Hasselt University are molecular mechanisms of disease and molecular diagnostics and therapy in disease, e.g. immunological diseases, cardiology, neurology, oncology. This programme is jointly organized with Maastricht University. Students learn how to obtain new scientific knowledge in the field of molecular life sciences and how to apply this knowledge, e.g. for prevention, diagnosis and therapy of disease.

EDUCATIONAL CONCEPT:
In view of the international profile of this degree programme, English language syllabi and textbooks are being used throughout. The block courses are based on lectures, assignments, ‘guided self study’ focusing on recent publications in leading scientific journals (journal clubs) and laboratory training in an internship. The educational team has an international and multidisciplinary profile and consists of professors and senior scientists of both Hasselt University and Maastricht University, complemented by experts from independent research institutions.

CAREER PROSPECTS
- Fundamental and applied research at universities, hospitals, research centers
- Government authorities and centers focusing on public health, genetics and public relations agencies
- Research and development in pharmaceutical and biotechnology industries
- PhD programmes in scientific and biomedical disciplines
- Education

LOCATION
Located in the heart of the EU-region, Hasselt and its university are truly international. Hasselt is situated at a stone’s throw from cities such as Brussels, Liege (French speaking part of Belgium), Aachen (Germany) & Maastricht (the Netherlands), while Paris and London are all within a couple of hundred kilometers.
## 1st Year: Courses

<table>
<thead>
<tr>
<th>Week</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 6</td>
<td>Experimental design in life sciences: molecular mechanisms in health and disease/molecular mechanisms in toxicology</td>
<td>9</td>
</tr>
<tr>
<td>7 - 12</td>
<td>Molecular diagnostics and therapy</td>
<td>9</td>
</tr>
<tr>
<td>13 - 14</td>
<td>Essential skills for upcoming scientists</td>
<td>3</td>
</tr>
<tr>
<td>15 - 16</td>
<td>Experimental animal research</td>
<td>3</td>
</tr>
<tr>
<td>17 - 26</td>
<td>Junior practical training</td>
<td>18</td>
</tr>
<tr>
<td>27 - 36</td>
<td>Optional courses:</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>• Neuroscience: bench to bedside</td>
<td></td>
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<td></td>
<td>• Immunology</td>
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<td>• Cardiology</td>
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<td>• Infection</td>
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<td></td>
<td>• …</td>
<td></td>
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<tr>
<td>37 - 38</td>
<td>Integrity, communication and marketing in science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total ECTS Credit Points**: 60

## 2nd Year: Courses

<table>
<thead>
<tr>
<th>Week</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 8</td>
<td>Development of a research project proposal and valorization of research</td>
<td>12</td>
</tr>
<tr>
<td>9 - 38</td>
<td>Senior practical training (Master’s project) + master’s dissertation*</td>
<td>48</td>
</tr>
</tbody>
</table>

**Total ECTS Credit Points**: 60

*Research topics for master’s project and dissertation are available at Hasselt University, Maastricht University and at top-level research institutes in Belgium and abroad (within ERASMUS programme, e.g. Universities in Mila, Kuopio, Lancaster, Barcelona,…)

**Admission and Registration**

All applicants should hold at least a university diploma or degree certificate or a diploma of higher education equivalent to a bachelor degree (180 ECTS credit points), at the start of the master programme half September.

Applicants should hold a bachelor degree or diploma in biomedical sciences, biology, medicine or chemistry. Applicants with a different educational background should contact the coordinator for specific regulations.

The Examination Board of the programme evaluates each application individually concerning the applicant’s academic record. Sufficient knowledge of English is required and is to be confirmed by an intake interview or by presenting a sufficient score on a language test such as TOEFL or IELTS.

Online pre-registration is compulsory. The Examination Board will only consider duly completed application files.

**Deadline for submission:**
- for EEA-students: 15th of August
- for non-EEA students: 1st of May

Applicants will be notified of the Examination Board’s decision as soon as possible. The registration becomes active after payment of the tuition fee, augmented with a premium for health insurance for non-EEA students.

Please consult [www.uhasselt.be/admission](http://www.uhasselt.be/admission) for fees, regulations, and online pre-registration.

**General Info:**
[www.uhasselt.be/admission](http://www.uhasselt.be/admission)

**Campus Diepenbeek**
Agoralaan Buiding D - BE-3590 Diepenbeek
Belgium

**Specific Info:**

**Campus Hasselt**
Martelarenlaan 42 - BE-3500 Hasselt
Belgium

**Programme Coordinator:**
Prof. Dr. Jerome Hendriks
jerome.hendriks@uhasselt.be