



# Master of Science in Biology

## Molecular Biosciences, Genetics, Development & Evolution (MBGDE)

### Academic contacts :

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Code	Course	ECTS	Semesters A/P/AN
<b>14B012</b>	Scientific Writing and Communication ( <b>mandatory</b> )	4	A
<b>14B673</b>	Pré-stage equivalent to 320h (pre-internship)	16	P

### Core courses (6-17 ECTS)

<b>14B672</b>	Computer Skills for Biological Research	4	A
<b>14F001</b>	Elements of Bioinformatics	5	A
<b>14B063A</b>	Microscopy and Imaging	3	A
<b>14B057A (1)</b>	Statistics & Probability	3	A
<b>14B951 (1)</b>	Applied Statistics Practicum	2	P

(1) At least one of the 2 statistics courses

### MBGDE Mandatory courses (17 ECTS)

<b>14B010</b>	Principles of Cellular and Molecular Biology	8	AN
<b>14B017</b>	Master course in Genetics, Development and Evolution	9	AN

### MBGDE Elective courses (6-17 ECTS)

<b>13B013 *</b>	Le système immunitaire	6	AN
<b>14B020</b>	Classical Papers in Molecular Genetics	5	P
<b>14B024</b>	Understanding Biological Complexity and Diversity	6	P
<b>14B038</b>	Molecular Genetics in Development and Evolution « <b>Selected Chapters</b> »	4	AN
<b>14B044</b>	Electron Microscopy	4	P
<b>14B077</b>	Vulnerability of the central nervous system in aging and in neurodegenerative dementia : molecular basises	3	A
<b>14B640</b>	Histology and Tissue Imaging	3	P
<b>14C001</b>	Biochemistry and Biophysics of Membranes	8	P
<b>14C003 *</b>	Elements of Molecular Endocrinology	6	AN
<b>14CB01</b>	Current Topics in Chemical Biology and Biochemistry	8	A
<b>223O305 *</b>	La génétique dans la pratique médicale au quotidien : du laboratoire au chevet du patient	3	A
<b>24N01</b>	Principles of Neurobiology I	3	A

**60**

A = Automne, Autumn / P = Printemps, Spring / AN = Annuel, Annual

\* Lectures given in French

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