

## PhD program in Biochemistry (2013)

The total minimum required number of credits:	94 credits
- Coursework:	20 credits
+ Basic courses:	12 credits
• Required:	09 credits
• Elective:	03/6 credits
+ Advanced foreign languages for academic purposes:	04 credits
+ Advanced courses:	06/12 credits
+ Overview:	02 credits
- Research	
- PhD Thesis:	70 credits

### Available curriculum :

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
<b>I</b>	<b>Part 1. Foreign language</b>						
1.	ENG8001	<i>Advanced English for Academic Purposes</i>	4			60	
<b>II</b>	<b>Part 2. Coursework</b>						
<b>II.1</b>	<b>Basic courses</b>		<b>12</b>				
<b>II.1.1</b>	<b>Required</b>		<b>9</b>				
2.	BIO8074	<i>Regulation of gene expression</i>	3	30		15	
3.	BIO8087	<i>Biochemistry of Aging</i>	3	30		15	
4.	BIO8088	<i>Biosensor: Principle and Application</i>	3	30		15	
<b>II.1.2</b>	<b>Elective</b>		<b>3/6</b>				
5.	BIO8073	<i>Molecular pathology of plants</i>	3	30		15	BIO8073, BIO8087, BIO8088

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
6.	BIO8089	<i>Molecular pathology of animals</i>	3	30		15	BIO8073, BIO8087, BIO8088
<b>II.2</b>	<b>Advanced courses</b>		<b>6/12</b>				
7.	BIO8090	<i>Biochemistry of plant hormones</i>	3	30		15	BIO8073, BIO8087, BIO8088
8.	BIO8091	<i>Biochemistry of animal hormones</i>	3	30		15	BIO8073, BIO8087, BIO8088
9.	BIO8092	<i>Medical genetics</i>	3	30		15	BIO8073, BIO8087, BIO8088
10.	BIO8070	<i>Plant cell technology</i>	3	30		15	BIO8073, BIO8087, BIO8088
<b>II.3</b>	<b>Overview</b>		<b>2</b>				
11.	BIO8093	<i>Research Perspective Report</i>	2			30	
<b>III</b>	<b>Part 3. Research (research planning, publishing ...)</b>						
<b>IV</b>	<b>Part 4. Doctoral Thesis</b>						
12.	BIO9010	<i>Doctoral Thesis</i>	70				
<b>Total</b>			<b>94</b>				