



UNIVERSITÀ DI PAVIA

Anno Accademico 2016/2017

BIOINFORMATICS AND SYNTHETIC BIOLOGY	
Enrollment year	2015/2016
Academic year	2016/2017
Regulations	DM270
Academic discipline	ING-INF/06 (ELECTRONIC AND INFORMATION BIOENGINEERING)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	BIOENGINEERING
Curriculum	BIOINGEGNERIA DELLE CELLULE E DEI TESSUTI
Year of study	2°
Period	1st semester (26/09/2016 - 13/01/2017)
ECTS	6
Lesson hours	66 lesson hours
Language	ITALIAN
Activity type	WRITTEN AND ORAL TEST
Teacher	MAGNI PAOLO (titolare) - 6 ECTS
Prerequisites	=
Learning outcomes	=
Course contents	<p>Introduction to Bioinformatics</p> <p>Elements of molecular biology</p> <p>Perl</p> <p>Sequencing and genome projects</p> <p>Biological database</p> <p>Sequence comparison and alignment</p>

	<p>DNA microarrays</p> <p>Introduction to Synthetic Biology</p> <p>Hands-on</p>
Teaching methods	<p>Lectures (hours/year in lecture theatre): 32</p> <p>Practical class (hours/year in lecture theatre): 14</p> <p>Practicals / Workshops (hours/year in lecture theatre): 14</p>
Reccomended or required readings	<p>slides (in italian). The course is in italian</p>
Assessment methods	<p>Oral exam</p>
Further information	<p>Oral exam</p>
Sustainable development goals - Agenda 2030	<p>\$ibl legenda sviluppo sostenibile</p>