

Discipline	<i>Biology Formation Unit</i>
Title of the course	<i>Plant Development and Reproduction</i>
Code	<i>Code de l'UE</i>
Duration Date start Date end	<i>6 ECTS during the 3rd semester (exact time schedule to be determined: September to December) 158 hours corresponding to 48 in-class hours + 110 self-study hours</i>
Course coordinator and contact details	<i>- Philippe Gallusci (philippe.gallusci@u-bordeaux.fr)</i>
Other contact person	<i>- Florence Lartigaut - Florence.lartigaut@u-bordeaux.fr</i>
Mode of delivery	<i>- in-class lectures or seminars, inversed classes, work-group</i>
Level	<i>- Master,</i>
ECTS credit points	<i>6 ECTS – Breakdown of in-class and self-study hours are indicated eg 158 hours= 50h in-class (9h lectures, 14h professional seminars by INRA or CNRS-researchers), 23h group work, 2h exam); 110 hours self-study (50h private reading, 50h exam preparation, 10h group work preparation)</i>
Language	<i>English</i>
Description¹	<i>- Learning objectives: Most recent advances in plant development and reproduction with up to date approaches including genetic, reverse genetic and NGS based approaches. Epigenetic mechanisms in plants and their functions in plant development and reproduction. Genetic and molecular mechanisms underlying plant development control, and possible biotechnological applications Case studies using recent article on various plant model to analyse mechanisms controlling plant development</i>
Content	<i>- Content of the course is related to different aspects of plant development, and analysis of the mechanisms that control it. – The use of state of the art technologies in Molecular Biology, (including omics), developmental biology, Cell Imaging approaches to address various aspects of plant development, reproduction and applications in plant Biotechnologies will be highlighted by case studies from the literature.</i>
Methods	<i>Lectures, seminars, inverted class, scientific paper analysis and oral presentation.</i>
Assessment procedures	<i>Assessment methods specifically describe: - Written exam (2 hours)</i>

	<i>- Scientific paper group presentation Rules for failure: overall grade of 10/20 necessary to pass the exam.</i>
Prerequisites	<i>- 1st year Master in Biological Science or equivalent, Plant Biology/Physiology, Plant Biotechnology - Language prerequisites: Scientific English</i>
Other information	<i>- A maximum number of students of 20 is suitable.</i>

Please note that the number of places available may be limited for certain classes.