Plant cell Metabolism

Discipline	*Biology Formation Unit*
Title of the course	*Plant cell Metabolism*
Code	*Code de l'UE*
Duration **Date start** **Date end**	*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*
Course coordinator and contact details	*- Eric Gomès (eric.gomes@bordeaux.inra.fr)* *- Patrick Moreau (patrick.moreau@u-bordeaux.fr)*
Other contact person	*- Florence Lartigaut* *- Florence.lartigaut@u-bordeaux.fr*
Mode of delivery	*- in-class lectures or seminars, inversed classes, work-group*
Level	*- Master*
ECTS credit points	*- Breakdown of in-class and self-study hours are indicated eg 158 hours= 48h 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)*
Language	*English*
Description[1]	*- Learning objectives: strengthen the students' knowledge in the field of Plant Cell Metabolism.* *- Updated state of the art in the field will be presented through case studies on Arabidopsis and other plant models.* *- The usefulness of the concepts and methodologies presented in the frame of the course for conducting research projects will be highlighted.*
Content	*- Content of the course is related to different aspects of cell compartmentalisation of metabolic pathways and their regulations and "modelling".* *– The use of state of the art technologies in Molecular Biology, Biochemistry, Cell Imaging and Modeling approaches to address the cell compartmentalisation of metabolic pathways will be highlighted by case studies from the literature.*
Methods	*Lectures, seminars, inverted class, scientific paper analysis and oral presentation.*
Assessment procedures	*Assessment methods specifically describe:* *- Written exam (2 hours)* *- Scientific paper group presentation* *Rules for failure: overall grade of 10/20 necessary to pass the*

	exam.
Prerequisites	*- 1st year Master in Biological Science, Plant Biology/Physiology, Plant Biotechnology* *- Language prerequisites: Scientific English*
Other information	*– A maximum number of students of 40 is suitable.*

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