

Food Supplements: Safety, Efficiency, Innovation

Discipline	<i>Agronomy, Health</i>
Title of the course	<i>Food Supplements : Safety, Efficiency, Innovation</i>
Code	<i>Code de l'UE -</i>
Duration Date start Date end	<ul style="list-style-type: none"> – 48 hours of lectures and a total of 120 hours of work including 42 hours of collaborative project and 30 hours of personal work. Total duration corresponds with 6 ECTS – Starts 08 Janvier 2018 Ends 30 April 2018
Course coordinator and contact details	<i>Full information included:</i> <ul style="list-style-type: none"> – Catherine Bennetau-Pelissero – Catherine.bennetau@u-bordeaux.fr
Other contact person	<i>Full information included:</i> <ul style="list-style-type: none"> – Jean-Michel Mérillon – jean-michel.merillon@u-bordeaux.fr Secretary – Valérie Banteaux – master-a.biologie@u-bordeaux.fr
Mode of delivery	<ul style="list-style-type: none"> – The teaching mixes class-room lectures for Bordeaux students (recorded in French and in English) and distance work. The course can be followed completely in distance learning and has been designed for that purpose. – The course includes 4 teaching units each counting 12 hours of lecture. Quizzes are proposed for self-assessment. Works on glossaries are assessed as well as document analysis. The competence acquired is evaluated on a collaborative project.
Level	<i>- Master</i>
ECTS credit points	<ul style="list-style-type: none"> – 120 hours in total = 6 ECTS – 48 hours lectures and 4 hours on quizzes = 1 ECTS – 25 hours private work = 2 ECTS <ul style="list-style-type: none"> o 10 hours on glossaries o 15 hours on documents working – 42 hours on distance collaborative project = 2 ECTS – 1 hours on final examination = 1 ECTS
Language	<i>French or English upon choice</i>
Description¹	<ul style="list-style-type: none"> – To learn how taking into account biomolecule metabolism to ensure safety and efficiency of food-supplement. – Learning the diversity of plants active compounds, learning the potential behaviour of biomolecule of interest after ingestion, learning regulations on food-supplements and why they are different from drugs, learning how to find new interesting molecules. – The collaborative project mixing students of different origins deals with the elaboration of a new food supplement and should include data on the plants, on the active compounds and on their metabolism, on their expected health effects, on their costs at the field level and at the food-supplement company level.

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<p>Content <</p>	<ul style="list-style-type: none"> - <i>The course on Food-supplements : Safety, Efficiency Innovation aims at showing how to produce good quality food-supplements. It is organized in 4 units each counting 12 hours of lectures.</i> <ul style="list-style-type: none"> o <i>Digestive interactions of Biomolecules with Health Benefits</i> o <i>Bioavailability and metabolism of Biomolecules with Health Benefits</i> o <i>Toxicology and Ecotoxicology of Plants with Health Benefits</i> o <i>Biomolecules of Industrial Interests</i> - <i>Lectures are recorded and can be followed completely in distance learning.</i> - <i>For each lecture a quiz with solutions is proposed for self-assessment.</i> - <i>Specific documents on food supplement regulations and opinions on specific plants with health benefits are provided. Links to specific websites of interest are also provided.</i> - <i>Glossaries are proposed which should be completed by the students in English.</i> - <i>A distance collaborative project mixing students of different origins is organized. The work is done by 4 to 5 students following provided guidelines. The project allows assessing the acquisition of all the concepts required to propose high quality food-supplements based on plants. Communication between students is organized with specific forum, wiki and chats.</i> - <i>The collaborative projects performed by the different groups are accessible to all the students once they have been corrected.</i>
<p>Methods</p>	<p><i>Lectures, Document analyses, glossaries, collaborative project. The training can be followed as all distance courses.</i></p>
<p>Assessment procedures</p>	<p><i>Assessment methods are:</i></p> <ul style="list-style-type: none"> - <i>Assessment based on work on glossaries (1/3 of the final mark) work on collaborative project (1/3 of the final mark), Quizzes on lectures (1/6 of the final mark) and final examination (1/6 of the final mark).</i> - <i>Final examination is a video presentation of the work performed in the collaborative project. The final examination is organized only for students who are abroad. It consists in a 1 hour video assessment. It is a presentation of the work performed during the collaborative project. Additional questions will deal with some academic and organisational aspects.</i> - <i>Final examination only for all distance students will take place on the 26th of october 2018.</i> - <i>If the work to be done on lectures, quiz, glossaries and project has not been done the student cannot have his final examination.</i> - <i>If he fails to his examination a second session is organized in January 2019. If he cannot present the examination because he did not finish his work before the 26th of October 2018, he can pass it only once in January 2019. If the examination is failed or not done, the year can be done over but only once.</i>

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<p>Prerequisites</p>	<ul style="list-style-type: none"> - <i>Prerequisites: Academic level: French licence 3 or Graduation. Under-graduated students can follow the course if they can show a 5 years professional activity in the food-supplement area.</i> - <i>Language prerequisites are either French mother language or English with minimum TOEFL score of 550/213/79-80 or minimum IELTS score of 6.0.</i> - <i>Computer and internet requirement for online course</i>
<p>Other information</p>	<ul style="list-style-type: none"> - <i>Maximum 60 French and English students</i> - <i>Selection upon achievements, grades, cover and recommendation letters</i> - <i>Selection criteria, is essentially motivation and initial level.</i> - <i>Selection criteria, sufficient back-ground based on either academic performances or professional experiences</i> - <i>A satisfaction inquiry is proposed at the end of the course in order to allow a continuous improvement.</i>

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