

## General Crop Science COURSE OUTLINE

### GENERAL

<b>SCHOOL</b>	AGRICULTURE SCIENCE		
<b>DEPARTMENT</b>	FOOD SCIENCE AND NUTRITION		
<b>STUDY LEVEL</b>	5 years		
<b>COURSE CODE</b>	CP212	<b>SEMESTER OF STUDY</b>	5th
<b>COURSE TITLE</b>	General Crop Science		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>WEEKLY COURSES</b>	<b>CREDITS</b>
<i>In case ECTS are awarded for distinct parts of the course e.g. Theory Lectures, Laboratory Practicals etc. If ECTS are awarded uniformly for the entire course, give the weekly teaching hours and total ECTS.</i>			
Theory Lectures		3	
Exercises		2	
TOTAL			5
<b>COURSE TYPE</b> <i>Background, Basic knowledge, Field of Science, Skill development</i>	<i>General background and knowledge regarding Agriculture such as the cultivation of large-scale crops and the operation of the soil-plant-environment system.</i>		
<b>PREREQUISITES:</b>	No		
<b>LANGUAGE:</b>	Greek		
<b>IS THE COURSE OFFERED for ERASMUS STUDENTS?</b>	Yes		
<b>COURSE WEB PAGE (URL)</b>	<a href="https://food.uth.gr/agriculture">https://food.uth.gr/agriculture</a>		

### LEARNING OUTCOMES

<p><b>Learning Outcomes</b></p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult. Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework</i></li> <li>• <i>Descriptive indicators for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning</i></li> </ul> <p><i>And Appendix B</i></p> <ul style="list-style-type: none"> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul> <p><i>The course provides the basic concepts of Agriculture that are directly related to Agricultural Science with the aim of understanding the operation of the soil-plant-environment system, while emphasizing on the cultivation of large-scale crops, on both theoretical and practical level. In particular, the course of General Agriculture presents the development and evolution of Agriculture both on a global and domestic scale, highlighting its importance in human life. It includes principles of Plant Physiology, Soil Science and Plant Nutrition. It presents in detail soil and climatic factors that affect growth, development and adaptability of plant species and especially of large-scale crops. It stresses the importance of fertilizing and nourishing plants. At the same time, it provides the necessary knowledge about cultivation systems and how to perform them, including the required agrotechnical treatments from germination to harvesting, processing, preservation and assessment of the quality of the produced product.</i></p> <p><i>Upon successful completion of the course student will be able to:</i></p> <ol style="list-style-type: none"> <li>1. <i>Know the purpose and usefulness of the most important cultivated plants</i></li> <li>2. <i>Recognize the main plants of large cultivation based on their morphological characteristics</i></li> <li>3. <i>Understand the structure and function of plants</i></li> <li>4. <i>Know the planning of the agricultural production of large crop plants in the appropriate soil and climatic conditions in order to lead to successful cultivation.</i></li> <li>5. <i>Understand the effects of the environment on plant growth and growth (climate, soil, biotic factors)</i></li> <li>6. <i>Acquire the necessary knowledge about the importance of fertilizing and nourishing plants</i></li> </ol>
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7. Acquire the necessary knowledge for the expected crop yield, the technical equipment used for the cultivation (from sowing to harvesting) of crop plants as well as the ways, problems and conditions of storage of production.
8. Know the cultivation systems and the new trends in Agriculture

**General Competences**

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations
- Decision making
- Autonomous work
- Teamwork
- Work in an international environment
- Work in an interdisciplinary environment
- Generating new research ideas
- Project planning and management
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstrating social, professional and ethical responsibility and sensitivity to gender issues
- Exercise criticism and self-criticism
- Promotion of free, creative and inductive thinking

**COURSE CONTENT**

Week 1: Introduction to Agriculture
Week 2: Crop Plants
Week 3: Crop growth, growth and yield
Week 4: Influence of Climate on Plant Growth (Part A)
Week 5: Influence of Climate on Plant Growth (Part B)
Week 6: Influence of soil environment and biotic factors on plant growth
Week 7: Cultivation techniques by family
Week 8: Soil treatment
Week 9: Seed and sowing
Week 10: Cultivation systems (Part A)
Week 11: Cultivation systems (Part B)
Week 12: Main crop plants in Greece
Week 13: Aromatic, medicinal plants

**TEACHING METHODS--ASSESSMENT**

<b>METHOD OF DELIVERY</b> <i>Face to face, Distance learning, etc.</i>	Face to face
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY</b> <i>Use of ICT in teaching, Laboratory Education, Communication with students</i>	<p>Lectures: In a classroom.</p> <p>a. Digital media will be used for the teaching of the course (presentations using projector, " PowerPoint", " Excel", " videos " and photos), while communication with students will also be possible via in (questions, exercises).</p> <p>b. There will be a demonstration-learning of finding modern scientific literature from internet (renowned international scientific journals).</p> <p>c. The learning of the electronic recording of the reproductive / productive characteristics of field/farm will</p>

	be done with specially designed by the instructor, spreadsheets Excel , using a computer. d. There will be a daily educational trip to field/farm unit																	
<p><b>TEACHING ORGANIZATION</b>  <i>The method and methods of teaching are described in detail.</i>  <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography Study &amp; Analysis, Tutorial, Internship (Placement), Clinical Practicing, Art Workshop, Interactive Teaching, Educational visits, Project Writing, Writing a project / assignments, Artistic creation, etc.</i></p> <p><i>The student's study hours for each learning activity are listed as well as the hours of unguided study so that the total workload at semester level corresponds to ECTS standards</i></p>	<table border="1"> <thead> <tr> <th data-bbox="703 286 1046 327"><b>Activity</b></th> <th data-bbox="1046 286 1390 327"><b>Semester Workload</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="703 327 1046 360">Lectures in Auditorium</td> <td data-bbox="1046 327 1390 360">39</td> </tr> <tr> <td data-bbox="703 360 1046 394">Εργαστηριακές Ασκήσεις</td> <td data-bbox="1046 360 1390 394">39</td> </tr> <tr> <td data-bbox="703 394 1046 427">Independent study</td> <td data-bbox="1046 394 1390 427">23</td> </tr> <tr> <td data-bbox="703 427 1046 577">Study visits in field/farm units</td> <td data-bbox="1046 427 1390 577">24</td> </tr> <tr> <td data-bbox="703 577 1046 611"></td> <td data-bbox="1046 577 1390 611"></td> </tr> <tr> <td data-bbox="703 611 1046 645"></td> <td data-bbox="1046 611 1390 645"></td> </tr> <tr> <td data-bbox="703 645 1046 678"><b>Total Course (25 hours of workload per credit)</b></td> <td data-bbox="1046 645 1390 678"><b>125</b></td> </tr> </tbody> </table>	<b>Activity</b>	<b>Semester Workload</b>	Lectures in Auditorium	39	Εργαστηριακές Ασκήσεις	39	Independent study	23	Study visits in field/farm units	24					<b>Total Course (25 hours of workload per credit)</b>	<b>125</b>	
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<p><b>STUDENT EVALUATION</b>  <i>Description of the evaluation process</i></p> <p><i>Assessment Language, Assessment Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay/Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Examination of a Patient, Artistic Interpretation, Other/Others</i></p> <p><i>Explicitly defined evaluation criteria and whether and where they are accessible to students are mentioned.</i></p>	<p>The examination of the course includes:</p> <ul style="list-style-type: none"> <li>• Final exam (written)</li> <li>• Laboratory exercise examination</li> </ul> <p>The language of assessment is Greek.</p> <p>The grade in theory and the laboratory / tutorial results 80% from the written examination and 20% from the examination of the laboratory exercise</p>																	
<p><b>RECOMMENDED-BIBLIOGRAPHY</b></p> <p>Suggested Bibliography:</p> <p>Karamanos A.,2011. General Agriculture, Papazisis Publication          Dordas C., 2018. GENERAL AGRICULTURE, Modern Education Publication          Bilalis D., Papastylianou P.-Th., Travlos I., 2019. AGRICULTURE,Pedio Publication</p>																		