

Introduction to forest science

3.00 credits

22.5 h + 15.0 h

Q2

| Learning outcomes Participati Evaluation methods Participati 72 of the the regist attendance The asses group repis obtaine mark correcting methods Teaching methods - Lectures Teaching methods - Lectures Ouizzes the allotte - Presenta - Integrate - Integrate in group v - One-day Content Part I. Fo - definition - diversity - humans - Martie II. - definition - morpholi - effects of - Partie III. | iendly la-Neuve la-Neuve ion in practical work and submission of reports are required for this course. In agreement with Article General Regulations for Studies and Examinations, the lecturers may propose to the jury to oppose ration for the examination of a student who has not complied with these obligations. In addition, class are is highly recommended. ssment consists of two parts: (i) individual closed-book written exam with short answers, and (ii) written ort related to the characterization of a forest stand. If the mark of the written exam is >=8/20, the final mark d by taking the weighted average of the written exam (70%) and the report (30%); otherwise, the final esponds to the mark of the written exam. Participation in the quizzes is compulsory; failing to complete as on time, the final grade will be reduced by one point out of 20 per quiz not completed on time. with active learning mini-activities and real-life examples; allowing the gradual acquisition of essential notions, with feedback. The completion of the quizzes within d time is compulsory, but the mark obtained in the test does not enter into the final mark; ations given by stakeholders in the socio-professional world; ed small-scale group project (basic stand description and analysis), with feedback in the field. Participation vork and submission of the project are compulsory; |
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| Learning outcomes Participati Evaluation methods Participati 72 of the the regist attendance The asset group reprise obtained mark correcting methods Teaching methods - Lectures Quizzes - Quizzes the allotte - Presenta - Integrate - Integrate in group v - One-day Content Part I. For - definition - diversity - humans Partie II. - definition - morpholi - effects of Partie III. | tion in practical work and submission of reports are required for this course. In agreement with Article General Regulations for Studies and Examinations, the lecturers may propose to the jury to oppose ration for the examination of a student who has not complied with these obligations. In addition, class are is highly recommended. ssment consists of two parts: (i) individual closed-book written exam with short answers, and (ii) written ort related to the characterization of a forest stand. If the mark of the written exam is >=8/20, the final mark d by taking the weighted average of the written exam (70%) and the report (30%); otherwise, the final esponds to the mark of the written exam. Participation in the quizzes is compulsory; failing to complete as on time, the final grade will be reduced by one point out of 20 per quiz not completed on time. |
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| Content Conten | allowing the gradual acquisition of essential notions, with feedback. The completion of the quizzes within d time is compulsory, but the mark obtained in the test does not enter into the final mark; ations given by stakeholders in the socio-professional world; ad small-scale group project (basic stand description and analysis), with feedback in the field. Participation |
| - definition - diversity - diversity - humans Partie II. - definition - morphol - effects of Partie III. | r field trip in public and/or private forests; presence at the excursion is compulsory. |
| - coloniza - biotic int - species - silvigene Partie IV. - context - silvicultu | ns of forests over space of forests over time and forests Trees Trees ogy and growth f environmental factors on tree Forest dynamics diation and forests ions nces lability and opening of gaps tion and installation eractions |
| Inline resources Moodle | ral systems objectives and silvicultural interventions |

Université catholique de Louvain - Introduction to forest science - en-cours-2023-Ibir1334

| Bibliography | Les supports de cours obligatoires (diapositives power point, documents de référence) sont mis à disposition de l'étudiant sur Moodle. | | | |
|----------------------|--|--|--|--|
| | Pour en savoir plus, l'étudiant pourra consulter utilement les ouvrages de référence suivants : | | | |
| | - Barnes, B.V., Zak, D.R., Denton, S.R., Spurr, S.H., 1998. Forest ecology. 4th Ed. John Wiley & Sons, New York USA, 774 p ; | | | |
| | - Chapin III, F.S., Matson, P.A., Vitousek, P. 2011. Principles of Terrestrial Ecosystem Ecology. Springer-Verlag, New York ; | | | |
| | - Kimmins, J.P. 2004. Forest ecology. A foundation for sustainable forest management and environmental ethics ir forestry. 3rd edition. Prentice Hall, Upper Saddle River, USA, 611 p. + annexes ; | | | |
| | - Nyland, R.D., 2002. Silviculture: concepts and applications. 2nd Ed. McGraw-Hill, USA, 682 p. ; | | | |
| | - Oliver, C.D., Larson, B.C., 1996. Forest stand dynamics. Updated Ed. John Wiley & Sons, New York, 520 p. ; | | | |
| | - Sands, R., 2005. Forestry in a global context. CABI Publishing, Wallingford, UK, 262 p.; | | | |
| | - Schütz, JP., 1990. Sylviculture 1. Principes d'éducation des forêts. Presses polytechniques et universitaires romandes, Lausanne, Suisse, 243 p. ; | | | |
| | - Schütz, JP., 1997. Sylviculture 2. La gestion des forêts irrégulières et mélangées. Presses polytechniques e universitaires romandes, Lausanne, Suisse, 178 p. ; | | | |
| | - Smith, D.M., Larson, B.C., Kelty, M.J., Ashton, P.M.S. 1996. The practice of silviculture: applied forest ecology. 9th Ed. John Wiley & Sons, New York, USA | | | |
| Other infos | This course analyzes the different issues related to forests on a global scale, and explains how the methods for the sustainable management of forest ecosystems are based on the understanding of the processes active at the different scales of interest. This course is committed to transition and sustainable development. | | | |
| | The course does not use any particular medium that would be charged and deemed mandatory. Paid books that may be recommended are optional. | | | |
| Faculty or entity in | AGRO | | | |
| charge | | | | |

| Programmes containing this learning unit (UE) | | | | | | |
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| Program title | Acronym | Credits | Prerequisite | Learning outcomes | | |
| Minor in Scientific Culture | MINCULTS | 3 | | ٩ | | |
| Master [120] in Biology of Organisms and Ecology | BOE2M | 3 | | ٩ | | |
| Minor in Development and Environment | MINDENV | 3 | | ٩ | | |
| Bachelor in Bioengineering | BIR1BA | 3 | | ٩ | | |