

Faculty of Biological, Agronomic and Environmental Engineering

BRAI2204 Management of temperate and tropical pastoral systems

[30h] 2.5 credits

This course is taught in the 1st semester

Teacher(s): Alain PEETERS
Language: French
Level: Second cycle

Aims

Understanding the complexity of rangeland systems in their ecological, plant and animal production and sociological aspects
 Getting the knowledge necessary to the description of forage potential of vegetation and area as well as their modelling
 Awareness to sociological aspects: culture, traditions, laws, evolution of societies

Main themes

Identifying the specificity of rangeland systems
 Description of the ecological and agronomical variability of rangeland systems
 Modelling their functioning
 Sociological and law aspects

Content and teaching methods

Definition of rangeland systems
 Ecology of rangelands: ecological areas, climates, vegetation zones and kinetics, pasture mapping
 Rangeland vegetation: research methods, annual herbaceous, perennial herbaceous and shrub species, main grass and legume species per ecological area
 Production and productivity of rangelands: grazing types (free, herded, enclosed), use and effect of fire, fences, mineral blocks, drinking places, pastoral planning
 Grazing animals: breeds, genetics, management of grazing animals, balance between forage supply and demand, animal survey and monitoring
 Pastoral societies
 Land tenure and law aspects of rangelands
 Pastoral crisis

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Precursory courses Chemistry, Physics, Biology, Applied ecology, Farming systems, Plant production
 Supplemental courses Grassland production
 Evaluation Oral examination at the end of the period, reports
 Support Book, Powerpoint presentation, living collections
 Teaching team Teacher

Other credits in programs

BIR23/6E	Troisième année du programme conduisant au grade de bio-ingénieur : sciences et technologie de l'environnement (Nature, eau & forêts)	(2.5 credits)
BIR23/8A	Troisième année du programme conduisant au grade de bio-ingénieur : sciences agronomiques (Intégrée, productions animales, végétales & économie)	(2.5 credits)