Instructor
Mario Tenuta, Soil Science, 309 Ellis Building, mario.tenuta@umanitoba.ca, 204-474-7827

Course Goals
Provide students with experience as a team in planning and designing a production system in Manitoba.

Course Content
Under the direction of the instructor, students are to work as a team to develop a plan for a production system in Manitoba. Lecture sessions will be held Tuesdays 1-2:15pm in Ellis 344. Students need to use time for the Thursday lecture slot to work on the plan, additional time is needed. It is expected the lecture slots will be used to bring the team together to discuss the past weeks achievements and goals for the next week.

Learning outcomes
- Integrate and apply knowledge from previous courses in design of a production system
- Foster better team work skills to compliment the independent study of your Agroecology Major Project
- Understand how to develop a financial plan for a production system
- Use holistic management skills in design and management of a production system
- Understand how to use social engagement in management of a production system
- Develop a continual learning plan a production system manager
- Develop skills to create marketing, pest management, nutrient, and waste management plans
- Know more about practical side of food production

Evaluation (deadlines to be discussed and set with student input)
Production Plan Outline 10% Feb
Draft Production Plan Report 20% March
Final Production Plan Report 20% April
Formal Production Plan Presentation 20% April
Defense of Production Plan 20% April
Individual Participation 10%
Elements of the Production Plan

- Holistic goals of the production system
- Guiding agroecological principals
- Agroecology resources
- Infrastructural resources
- Marketing
- Agroecological considerations
  - Agronomic
  - Pest management
  - Nutrients
  - Waste management
  - Environmental
- Financial
- Social Engagement
- Continual learning/development
- 40 pages max, 40 min presentation, all individuals involved in the presentation

Constraints on the Production System

- Maximum 2000 acres of land
- Maximum $2 million in capital assets (excluding land, includes dwelling)
- Has to be in Manitoba
- Can be an production or combination of production systems you like (wide open)
- Can have fields close together or dispersed
- Can rent land to others and/or rent from others
- No augmentation of salaries with off-farm income
- Can process/add value to what you produce
- Need to provide a 10 year window of operation for the system starting May 2016
- List of mentors and why

Resources


Business Plans and Cost of Production
Livestock Production in Manitoba

Crop Production in Manitoba
http://www.gov.mb.ca/agriculture/crops/index.html

Soil Survey
http://soils.gis4ag.com/manitoba-soil-series-interactive-online-map/

Historical Weather
http://climate.weather.gc.ca/

Financial Planning

Farm Planning
http://www.farmstart.ca/resources/


Nutrient Management Planning
https://www.gov.mb.ca/waterstewardship/wqmz/guidelinesfordevelopment.html