



**Carbohydrates in Animal Nutrition  
Module 2012**

**Instructor:** Dr. D.M. Anderson  
**Telephone:** 902-893-6651    **Email:** [danderson@nsac.ca](mailto:danderson@nsac.ca)    **Office:** Rm 260 Haley Inst.  
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**Description:** Carbohydrates form an important source of energy for both monogastric and ruminant animals. Some monogastric species, both aquatic and terrestrial, have limited ability to use carbohydrates present in their diets.

Carbohydrates from different sources have a wide range of digestibility depending on species fed and on the fibrous versus non-fibrous nature of the carbohydrate. This module will look at the carbohydrate composition and utilization in a range of feeds and relate this to different species of animal.

**Method:** The class will conduct carbohydrate analysis on a group of samples to be determined at the beginning of the class. There may be opportunity to work with a set of data from an existing experiment and determine the carbohydrate utilization of this study. There is also a possibility to develop an array of feedstuffs and investigate the various carbohydrates present in these. The students will evaluate their findings in relation to assigned literature readings. Depending on the nature of the analysis conducted, the students may present individual oral and written reports or decide on a group (combined) presentation and group write up.

Class meetings will be one - 2 hour session per week, plus independent laboratory time. There will be assigned readings.

<b>Evaluation:</b>		<u>%</u>
	Initial Module Set up Discussion	5
	Laboratory Component	25
	Discussion of Assigned Readings	20
	Oral Presentation of Findings	25
	Final Written Report	<u>25</u>
		100

**Date:** May/June 2012      **Times:** TBA

**Note:** Due to the pre-start preparation needed on this module, those interested in participating must email D.M. Anderson with their intention - [danderson@nsac.ca](mailto:danderson@nsac.ca). Would like to know by May 1, 2012.

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**Schedule 2012**

<b>Date</b>	<b>Time</b>	<b>Activity</b>	<b>Location</b>
May 18		Introduction Lecture	Haley 112
May 22		Project Discussion	Haley 112
May 31		Discussion of assigned readings, project progress	Haley 112
June 5		Discussion of assigned readings, project progress	Haley 112
June 7		Project Progress Update	Haley 112
June 12		Discussion of assigned readings, project completion	Haley 112
June 26		Oral Presentation of Project Findings	Haley 112
June 29		Final Written Report Due	Haley 260