Summer Research Project -- Project Proposal

Summer student research opportunities are available and sponsored by NSERC as Undergraduate Summer Research Awards (USRA) or as part of the financial need-based award program provided by the University of Guelph known as the Undergraduate Research Assistantships (URA).

Department: Economics & Finance	Name and Title of Proposed Supervisor: Patrick Martin

Proposed Starting Date: May 2012	Application:
Title of Proposed Research Project: Using Maple TA to generate algorithmic problems for International Trade	URA

Outline of Proposed Research Project:

As part of my ECON*3620 International Trade course I have written a series of three homework assignments where students us their Guelph student ID to generate questions specific to the individual. As a result the class as a whole typically sees every permutation of a question I could write on a particular topic. This greatly benefits students that work together on the assignment as they all see a slightly different question on the subject matter being tested. The student ID number is used not only to generate different parameter values, but to indicate different variables such as exports or imports, subsidies or tariffs, the home or foreign country, increase or decrease, or labour or capital.

I would like to write these questions using the Maple TA software so that students will receive instantaneous feedback as they work through problem sets. Ideally the URA would have some experience with mathematical software such as Maple or MatLab – no prior coursework in International Trade or economics is necessary.

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Signature of Proposed Supervisor : _____

Signature of Head of Department:_____

Printed Name of Head of Department:_____John Livernois_____

Date:_____10 January 2012_____