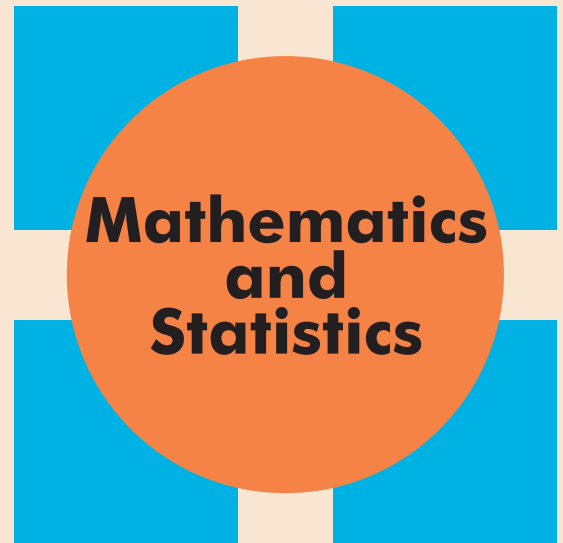


# COLLOQUIUM

**Robert Petry**

Campion College at the U of R

## **Jupyter Notebooks and Open Source Web-based Computing**



Date: Friday September 20, 2019

Time: 3:30 - 4:30 PM

Room: RI 208

**Abstract:** A Jupyter Notebook is an open source interactive computational environment in which executed code, plots, multimedia objects, rich text (including mathematical markup) can be combined. Notebooks are accessed via a client's web browser connected to a server. Jupyter can interface with many code kernel backends including Python, R, Julia, and SageMath. PIMS and Compute Canada currently host servers for our university use at [syzygy.ca](http://syzygy.ca). PIMS and the government of Canada's CanCode program have also sponsored the Callysto project for the creation of Jupyter notebooks for teachers in grades 5-12. University of Regina students have been active developers in Callysto.

This talk will consider how Jupyter notebooks can be used for instructional and research purposes. An introduction to creating Jupyter notebooks using the Python kernel and its associated libraries will be explored. Other avenues for the provision of open source web-based computing will also be considered in this talk.