Submitted by: David Toth

Date Prepared: 10/23/2012

Department/Discipline and Course Number: Computer Science - CPSC 419

Course Title: Data Mining

Type of change (check all applicable):

Course Number* X Title _____ Credits _____ Description _____ Prerequisites X Deletion _____

*This course number must be approved by the Office of the Registrar before the proposal is submitted.

Course should be cross-listed as ANLY 419.

Effective Date: FALL Semester, Year ___Fall 2013_________________________

<table>
<thead>
<tr>
<th>Current Catalog Entry</th>
<th>Proposed Catalog Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites: Computer Science 230. Practical knowledge of data mining and information retrieval. Students will examine the theoretical foundations of a variety of techniques, gain experience with these techniques using open source software, and learn how to apply them to real-world problems. Topics include decision trees, Naive Bayes, probabilistic retrieval models, clustering, support vector machines and approaches to web mining.</td>
<td>Prerequisites: Computer Science 220. Practical knowledge of data mining and information retrieval. Students will examine the theoretical foundations of a variety of techniques, gain experience with these techniques using open source software, and learn how to apply them to real-world problems. Topics include decision trees, Naive Bayes, probabilistic retrieval models, clustering, support vector machines and approaches to web mining.</td>
</tr>
</tbody>
</table>

JUSTIFICATION (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required)
This course does not need the material taught in the current pre-req of CPSC 230 and therefore, we would like to change the pre-req to CPSC 220. There will be no impact on majors, minors, concentrations, or general education courses.

Since this course is intended to form part of the requirements for the proposed new Data Sciences minor, and since it will be a foundational class for a future fifth-year masters program in Data Analytics (from COB), we desire that it be cross-listed as ANLY 419.

**TRANSITION PLAN** *(describe how will students who are in Catalogs where the course is required for a major be accommodated; attach additional pages if required)*

No transition plan is needed because nothing will change other than the pre-requisite.

---

**Approvals**

Department Chair: Jennifer Polack-Wahl  
Date: 10/31/12

College Curriculum Chair: Bradley Hansen  
Date: 11/9/12

Expeditied course changes are posted for a 10-class day comment period. If no comments are raised during that time, the proposal becomes final. All expedited proposals approved in this way will be noted on the UCC web site.

If comments are raised, the proposal may be reviewed by the UCC and then approved or it may be returned to the CCC for additional deliberation (as required).