Submitted by: Jennifer A. Polack-Wahl, DEPARTMENT CHAIR

Date Prepared: 11/6/2012

Department/Discipline and Course Number: CPSC 444

Course Title: Three Dimensional Graphics

Type of change (check all applicable):
Course Number* _____ Title _____ Credits _____ Description _____ Prerequisites ____ Deletion ____

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

Effective Date: FALL Semester, Year 2013

<table>
<thead>
<tr>
<th>Current Catalog Entry</th>
<th>Proposed Catalog Entry</th>
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<tbody>
<tr>
<td>444-Three Dimensional Computer Graphics (3) Prerequisites: Computer Science 230, and Mathematics 300. The study of three-dimensional modeling involving the use of light, color, texture, and transformation; visible surface detection; parallel and perspective projections; clipping algorithms.</td>
<td>444-Three Dimensional Computer Graphics (3) Prerequisites: Computer Science 230. The study of three-dimensional modeling involving the use of light, color, texture, and transformation; visible surface detection; parallel and perspective projections; clipping algorithms.</td>
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JUSTIFICATION (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required)

The current prerequisites of CPSC 444 Three Dimensional Graphics are CPSC 230: Computer Science II: Data Structures and MATH 300: Linear Algebra. The method of teaching Computer Graphics has changed significantly over the past 10 years. In the past students needed to be extremely strong with matrix algebra, vector spaces and linear transformations. Using this knowledge they created the algorithms to move and shape 2D and 3D graphics. Using today's technology matrix algebra, vector spaces and linear transformations are embedded in the software. Using the methods provided by the software the students can see the direct correlations between the algorithms and what is happening on the screen.

The change in prerequisites would open the course to more students earlier in their UMW career.

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)

Approvals

Department Chair

Date: 10/15/12

College Curriculum Chair

Bradley Hansen

Date: 10/20/12

Expedited course changes are posted for a 10-class day comment period. If no comments are raised Expedited Course Change Cover Sheet (July 2012)
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).