Submitted by: Stephen Davies  Date Prepared: Fall 2014

Department/Discipline(s) and Course Number(s): CPSC 420

Course Title: Modeling and Simulation

Type of change (check all applicable):
Number* _____ Title _____ Credits _____ Description _____ Prerequisites __X__ Deletion_____ Cross list**____

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

**To cross list courses between departments/colleges, there should be two cover sheets submitted with the proposal – one by the chair of each department with signatures from the relevant College Curriculum Committee Chair.

Effective Date: FALL Semester, Year _____ 2015

Current Catalog Entry | Proposed Catalog Entry

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<th>420 – Modeling and Simulation (3)</th>
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<tr>
<td>Prerequisite: CPSC 220. A robust introduction to techniques of mathematical modeling and computational simulation applied to practical problems. Topics include system dynamics approaches, discrete-event simulation, and agent-based models. Students complete small projects on topics as diverse as population growth, epidemic transmission, queuing theory, and forest fire outbreaks.</td>
<td>Prerequisite: CPSC 219 or CPSC 220. A robust introduction to techniques of mathematical modeling and computational simulation applied to practical problems. Topics include system dynamics approaches, discrete-event simulation, and agent-based models. Students complete small projects on topics as diverse as population growth, epidemic transmission, queuing theory, and forest fire outbreaks.</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)

CPSC219, Foundations for Data Science, is a new class with no prerequisites. Students completing that course will have the necessary prerequisite skills for CPSC420. Currently, the prerequisite for CPSC420 is CPSC220. We would like to add CPSC219 as an alternative (so, CPSC219 OR CPSC220).

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)

This change does not affect people who are in catalogs where the course is an elective for the major.

Approvals

Jennifer Polack
Department Chair

Dawn S. Bowen
College Curriculum Chair

Expedited 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).