UNIVERSITY OF MARY WASHINGTON – EXPEDITED COURSE CHANGE PROPOSAL
Submit this form electronically, beginning with the first required level of review (department or college level). Each level of review passes the form and any attachments to the next level when the action is approved.

Submitted by: Jennifer A. Polack          Date Prepared: 10/28/2014

Department/Discipline(s) and Course Number(s): CPSC 340

Course Title: Data Structures and Algorithms

<table>
<thead>
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<th>Type of change (check all applicable):</th>
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<tbody>
<tr>
<td>Number* <em>340</em>___ Title_____ Credits_____ Description_____ Prerequisites <em>X</em>__ Deletion_____ Cross list**_____</td>
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*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

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<tr>
<th>Current Catalog Entry</th>
<th>Proposed Catalog Entry</th>
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<tr>
<td>CPSC 230A Data Structures and Algorithms (4): Prerequisite: Grade of C or better in CPSC 220. Continued study of data modeling and incorporation of abstract data types including linked lists, stacks, queues, heaps, trees, and graphs. Study of advanced sorting and searching techniques. Provides experience in the use of algorithm analysis. Continued study of program design, coding, debugging, testing, and documentation in an object-oriented higher level language.</td>
<td>CPSC 340 Data Structures and Algorithms (4): Prerequisite: (1) CPSC 225 and (2) Grade of C or better in CPSC 240. Continued study of data modeling and incorporation of abstract data types including linked lists, stacks, queues, heaps, trees, and graphs. Study of advanced sorting and searching techniques. Provides experience in the use of algorithm analysis. Continued study of program design, coding, debugging, testing, and documentation in an object-oriented higher level language.</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)

We are changing the order of courses because we believe that students need more programming experience prior to learning data structures and algorithms. By requiring CPSC 220 and then CPSC 240 we believe that retention from Data Structure and Algorithm will improve. We’ve also added CPSC 225 as a prerequisite as this new course contains material needed for CSPC 340.

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)

Expedited Course Change Cover Sheet (July 2014)
People who have completed CPSC 220 Computer Programming and Problem Solving prior to the Fall 2015 will be instructed to take CPSC 240 instead of the current CPSC 230A Data Structures and Algorithms. CPSC 340 will not be offered Fall 2015 in order to allow for students to take the prerequisite CPSC 225 course.

Expediting 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 website.

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).