

**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.

<b>Submitted by:</b> Ian Finlayson	<b>Date Prepared:</b> 9/25/2018
<b>Department/Discipline(s) and Course Number(s):</b> CPSC 340	
<b>Course Title:</b> Data Structures and Algorithms	

**Type of change** (check all applicable):

Number\* \_\_\_\_\_ Title \_\_\_\_\_ Description \_\_\_\_\_ Prerequisites   X   Deletion \_\_\_\_\_ Cross list\*\* \_\_\_\_\_

*\*This course number must be approved by the Office of the Registrar before the proposal is submitted. With this course proposal, attach a list of ALL COURSES that will be affected by the number change (for example, cases where the course number that is changing is a prerequisite for another course).*

*\*\*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   2019  

<b>Current Catalog Entry</b>	<b>Proposed Catalog Entry</b> (suggested length – less than 50 words)
Prerequisite: CPSC 225, a grade of C or better in CPSC 240, and either CPSC 284 or MATH 325. 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.	Prerequisite: CPSC 225, a grade of C or better in CPSC 240, and either CPSC 284 or MATH 201. 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.

<b>JUSTIFICATION</b> (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required). <b>Any change that impacts another Department must have a written statement (such as a copy of an email) from the Chair(s) agreeing to the change.</b>
This course change is to allow students to take MATH 201, Introduction to Discrete Mathematics instead of MATH 325, Discrete Mathematics. This change will make it easier for math and computer science double majors to complete their requirements since they will only need to take one discrete math course instead of two.
<b>TRANSITION PLAN</b> (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 should not need any transition plan as it makes the prerequisite easier to attain for certain students.

**Approvals**

**Department Chair**   Ian Finlayson   **Date:**   9/25/2018  

**College Curriculum Chair**   *Dan M. Bell*   **Date:**   10/23/2018  

*Expedited course changes are posted for a 10-class day comment period. If no comments are raised, 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).*