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: Ian Finlayson	**Date Prepared: 9/25/2018**
Department/Discipline(s) and Course Number(s): CPSC 326	
Course Title: Theoretical Foundations of Computing	

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_____

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
Prerequisites: CPSC 240 and either CPSC 284 or MATH 325. Covers structures and concepts relating to the underlying theory of computation and mathematical models of actual physical processes. Also covers a repertoire of advanced algorithms for data processing, and the asymptotic analysis of those algorithms to describe their running time and space requirements. Topics may include formal languages, automata theory, Turing machines, the halting problem, NP completeness, searching and traversal algorithms, dynamic programming, compression algorithms, and random number generation.	Prerequisites: CPSC 240 and either CPSC 284 or MATH 201. Covers structures and concepts relating to the underlying theory of computation and mathematical models of actual physical processes. Also covers a repertoire of advanced algorithms for data processing, and the asymptotic analysis of those algorithms to describe their running time and space requirements. Topics may include formal languages, automata theory, Turing machines, the halting problem, NP completeness, searching and traversal algorithms, dynamic programming, compression algorithms, and random number generation.

JUSTIFICATION *(including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required).* **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.**

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.

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 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_____ **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).