Course Approval Form

GEORGE MASON UNIVERSITY

For approval of new courses and deletions or modifications to an existing course.

registrar.gmu.edu/facultystaff/curriculum

Action Requested:

[ ] Create new course   [ ] Inactivate existing course

[x] Modify existing course (check all that apply)

    [ ] Title   [ ] Credits   [ ] Repeat Status   [ ] Grade Type

    [x] Prereq/coreq   [ ] Schedule Type   [ ] Restrictions

    [ ] Other: _____

Course Level:

[x] Undergraduate

[ ] Graduate

College/School: College of Science   **Department:** Mathematics

Submitted by: David Singman   **Ext:** 31476   **Email:** dsingman@gmu.edu

Subject Code: Math   **Number:** 112   **Effective Term:**

(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

[ ] Fall   [x] Spring   *Year* 2015   [ ] Summer

Title:

Current: Discrete Mathematics for IT

Banner (30 characters max including spaces): _____

New: _____

Credits: (check one)

[ ] Fixed _____ or

[ ] Variable _____ to _____

Repeat Status: (check one)

[ ] Not Repeatable (NR)

[ ] Repeatable within degree (RD)

[ ] Repeatable within term (RT)

Maximum credits allowed: _____

Grade Mode: (check one)

[ ] Regular (A, B, C, etc.)

[ ] Satisfactory/No Credit

[ ] Special (A, B C, etc. +IP)

Schedule Type: (check one)

LEC can include LAB or RCT

[ ] Lecture (LEC)

[ ] Lab (LAB)

[ ] Recitation (RCT)

[ ] Internship (INT)

[ ] Independent Study (IND)

[ ] Seminar (SEM)

[ ] Studio (STU)

Prerequisite(s):

Score of 13 or better on the Math Placement Test, or Grade of 'C' or better in MATH 105, or Grade of 'C' or better in MATH 108, or Grade of 'C' or better in MATH 113

Corequisite(s):

Instructional Mode:

[ ] 100% face-to-face

[ ] Hybrid: ≤ 50% electronically delivered

[ ] 100% electronically delivered

Restrictions Enforced by System: Major, College, Degree, Program, etc**.** Include Code.

Are there equivalent course(s)?

[ ] Yes   [ ] No

If yes, please list _____

Catalog Copy for NEW Courses Only (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	Notes (List additional information for the course)

Indicate number of contact hours: Hours of Lecture or Seminar per week: _____   Hours of Lab or Studio: _____

When Offered: (check all that apply)   [ ] Fall   [ ] Summer   [ ] Spring

Approval Signatures

_____   _____   _____   _____

Department Approval   Date   College/School Approval   Date

If this course includes subject matter currently dealt with by any other units, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

For Graduate Courses Only

_____   _____   _____

Graduate Council Member   Provost Office   Graduate Council Approval Date

Course Proposal Submitted to the Curriculum Committee of the College of Science

1. <u>COURSE NUMBER AND TITLE</u>: MATH 112 Discrete Mathematics

<u>Course Prerequisites</u>:

Score of 13 or better on the MPA2, or Grade of 'C' or better in MATH 105, or Grade of 'C' or better in MATH 108, or Grade of 'C' or better in MATH 113

The additions are: Specifying score of 13 and MATH 113

<u>Catalog Description</u>:
Introduces ideas of discrete mathematics including mathematical induction, sets, logic, graphs, trees, basic counting arguments, and discrete probability. Students who have received credit for MATH 125 may not receive credit for this course.

2. <u>COURSE JUSTIFICATION</u>:

<u>Course Objectives</u>:

<u>Course Necessity</u>:

<u>Course Relationship to Existing Programs</u>:

<u>Course Relationship to Existing Courses</u>:

3. <u>APPROVAL HISTORY</u>: Approved by department chair September 29, 2014

4. <u>SCHEDULING AND PROPOSED INSTRUCTORS</u>:

<u>Semester of Initial Offering</u>:

<u>Proposed Instructors</u>:

5. TENTATIVE SYLLABUS: