

MATH 119A: Algebra for Calculus

Course Addition - Approved

Flanigan | Bardo

UCC Discussions: New course to divert students using MATH 113 as a prerequisite to MATH 119. MATH 119A will serve as part of a 2-course sequence prerequisite for MATH 151 which will allow MATH 113 to become a terminal math course. Will pursue GT Pathways. No other discussion.

Change Item Description

Department Justification

New Proposal: No differences to report

The Department of Mathematics and Statistics aims to serve students and programs across campus in a way that is valuable and relevant to students in their respective programs while also highlighting the importance and usefulness of quantitative and analytical thinking. Our current focus is to create a College Algebra course that meets the needs of the programs that use it as a terminal course. The first step in this process is to divert those students who use MATH 113: College Algebra as a prerequisite to MATH 119: Precalculus and ultimately calculus. So, we are creating this MATH 119A: Algebra for Calculus which will serve that purpose and allow MATH 113 become a terminal math course. We used the number MATH 119A in order to make the connection to MATH 119 as the prereq for Calculus clear. The course title, Algebra for Calculus, also makes the intent of the course clear. Paired with MATH 119B: Trigonometry for Calculus (also being proposed as a new course), the two courses will create a 7-credit stretch sequence to replace the MATH 113-MATH 119 (9 credit) sequence for student not prepared for MATH 119. These changes are in line with state and nationwide initiatives to design/define mathematics pathways relevant to the programs offered. Decisions made throughout the entire redesign process (MATH 110, MATH 113, MATH 119) are based on studies and recommendations by professional mathematics organizations including the Mathematical Association of America.

MATH 119B: Trigonometry for Calculus

Course Addition - Approved

Flanigan | Bardo

UCC Discussions: New course to divert students using MATH 113 as a prerequisite to MATH 119. MATH 119B will serve as part of a 2-course sequence prerequisite for MATH 151 which will allow MATH 113 to become a terminal math course. No other discussion.

Change Item Description

Department Justification

New Proposal: No differences to report

The Department of Mathematics and Statistics aims to serve students and programs across campus in a way that is valuable and relevant to students in their respective programs while also highlighting the importance and usefulness of quantitative and analytical thinking. Our current focus is to create a College Algebra course that meets the needs of the programs that use it as a terminal course. The first step in this process is to divert those students who use MATH 113: College Algebra as a prerequisite to MATH 119: Precalculus and ultimately calculus. So, we are creating a stretch precalculus sequence - MATH 119A: Algebra for Calculus and MATH 119B: Trigonometry for Calculus for students who are not ready for MATH 119. This will allow MATH 113 become a terminal math course. We used the numbers MATH 119A and MATH 119B in order to make the connection to MATH 119 as the prereq for Calculus clear. The course title, Trigonometry for Calculus, also makes the intent of the course clear. Paired with MATH 119A: Algebra for

Calculus (also being proposed as a new course), the two courses will create a 7-credit stretch sequence to replace the MATH 113-MATH 119 (9 credit) sequence for students not prepared for MATH 119. These changes are in line with state and nationwide initiatives to design/define mathematics pathways relevant to the programs offered. Decisions made throughout the entire redesign process (MATH 110, MATH 113, MATH 119) are based on studies and recommendations by professional mathematics organizations including the Mathematical Association of America.

MATH 135: Engineering Calculus I	Course Modification - Approved	Lanci Bardo
<p>UCC Discussions: 1. Course description - edited slightly for clarity and consistency with MATH 151: Calculus I.2. Added the new stretch version of MATH 119: Precalculus, MATH 119A and MATH 119B, as an alternative prerequisite. The creation of those courses was for the purpose of creating a pathway to calculus from algebra that was more streamlined and did not make use of the MATH 113: College Algebra course. Students who take MATH 119A must take and pass (C or better) both MATH 119A and MATH 119B to meet the prerequisite for MATH 151.3. SLOs and topical outline added as required. No other discussion.</p>		
Change Item Description	Old	New
<p>Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):</p>	<p>Introduction to differentiation and integration of functions of a single variable. Emphasis on computational aspects. Includes functions, limits, continuity, differentiation, related rates, optimization problems, graphing, integration and applications.</p>	<p>Introduction to differentiation and integration of functions of a single variable. Emphasis on computational aspects. Includes functions, limits, continuity, differentiation, related rates, optimization, graphing, integration, and volumes.</p>
<p>Prerequisites:</p>	<p>MATH 119, or appropriate mathematics placement score</p>	<p>MATH 119, or MATH 119A and MATH 119B, or appropriate mathematics placement score</p>
<p>Academic engagement minutes per term:</p>		<p>3000</p>
<p>Student preparation minutes for a term:</p>		<p>6000</p>
<p>Is there overlapping content with present courses offered?</p>		<p>Yes</p>
<p>Explain:</p>		<p>This existing course has overlapping content with the existing course MATH 151: Calculus I, and some overlapping Content with MATH 146: Calculus for Biological Sciences (to be modified) and MATH 121: Calculus for Business (to be inactivated). This course (MATH 135) exists to help meet the guidelines of the CU</p>

Engineering program. The only significant change in this proposal is to add the new MATH 119A + MATH 119B to the prerequisite option.

MATH 151: Calculus I-GT-MA1	Course Modification - Approved	Lanci Bardo
<p>UCC Discussions: 1. Course description - replaced min-max with optimization as it is more accurate language for the topic and removed "applications" with the relevant application of volumes. 2. Added the new stretch version of MATH 119: Precalculus, MATH 119A and MATH 119B, as an alternative prerequisite. The creation of those courses was for the purpose of creating a pathway to calculus from algebra that was more streamlined and did not make use of the MATH 113: College Algebra course. Students who take MATH 119A must take and pass (C or better) both MATH 119A and MATH 119B to meet the prerequisite for MATH 151. 3. SLOs and topical outline added as required. No other discussion.</p>		
Change Item Description	Old	New
Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):	An introduction to differentiation and integration of functions of a single variable. Topics include functions, limits, continuity, differentiation, related rates, min-max problems, graphing, integration and applications.	Introduction to differentiation and integration of functions of a single variable. Topics include functions, limits, continuity, differentiation, related rates, optimization, graphing, integration, and volumes.
Prerequisites:	MATH 119, or appropriate mathematics placement test score	MATH 119, or MATH 119A and MATH 119B, or appropriate mathematics placement test score
Academic engagement minutes per term:		3750
Student preparation minutes for a term:		7500
Is there overlapping content with present courses offered?		Yes
Explain:		This existing course has overlapping content with the existing course MATH 135: Calculus for Engineering and some overlapping Content with MATH 146: Calculus for Biological Sciences (to be modified) and MATH 121: Calculus for Business (to be inactivated). The only significant change in this proposal is to add the new MATH 119A + MATH 119B to the prerequisite option.

OREC 100: Leave No Trace			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course covering the Leave No Trace (LNT) ethic which is foundational to any career or activity in the outdoor recreation industry. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		The Leave No Trace (LNT) ethic is foundational to any career or activity in the outdoor recreation industry. Although we incorporate elements of this ethic into each OREC course, the LNT curricula is vital and foundational to each course, and frankly, the future of the outdoor recreation industry. This course validates the academic pursuit of the OREC degree at CMU.		
OREC 104: Orienteering			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA 143: Orienteering as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		
OREC 105: Backpacking			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA120 as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		
OREC 108: Stand Up Paddle Boarding			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA108A as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		

OREC 109: Kayaking			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA109 as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		
OREC 110: River Rafting			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA110 as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		
OREC 112: Rock Climbing II			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA111A as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		
OREC 135: Backcountry Winter Travel			Course Addition - Approved	Lanci Bardo
UCC Discussions: New course replacing KINA135A as part of effort to redesignate several KINA courses that are now supervised and administered by the OREC program. No other discussion.				
Change Item Description		Department Justification		
New Proposal: No differences to report		This course is supervised and administered by the OREC program, and is a required course to graduate. There are no changes in content or course outline. This is only a change to an OREC designation. Request that this course will be available to all students to meet the needs of the Health and Wellness credit required for graduation.		

SPCH 203: Persuasion	Course Modification - Approved	Lanci Gurka
<p>UCC Discussions: The current prerequisites are not necessary to meet student communication goals and/or expand their communication skills in this 200-level communication course. Any necessary knowledge from 100 level classes will be discussed and reviewed in this 200-level class. No other discussion.</p>		
Change Item Description	Old	New
<p>Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):</p>	<p>Open discussions on the ethics, process, and application of everyday use of persuasion; how it applies to our advertisements, politics, and friendships; preparation for debate.</p>	<p>Open discussions on the ethics, process, and application of everyday use of persuasion; how it applies to advertisements, politics, and friendships; preparation for debate.</p>
<p>Prerequisites:</p>	<p>SPCH 102</p>	
<p>Academic engagement minutes per term:</p>		<p>2250</p>
<p>Student preparation minutes for a term:</p>		<p>4500</p>
SPCH 308: Argumentation and Debate	Course Modification - Approved	Lanci Gurka
<p>UCC Discussions: Students need basic public speaking skills as a base to build from in the argumentation-focused assignments. ESSL200 and SPCH102 provide that speaking foundation. The previously listed SPCH203 does not. No other discussion.</p>		
Change Item Description	Old	New
<p>Prerequisites:</p>	<p>SPCH 102 or SPCH 203 or permission of instructor</p>	<p>ESSL 200 or SPCH 102</p>
<p>Academic engagement minutes per term:</p>		<p>2250</p>
<p>Student preparation minutes for a term:</p>		<p>4500</p>