

Approval Chart for Curriculum Changes
A = Approve I= Information Item¹ R= Advise & Respond²

R= Advise & Respond²

State the requested change and reason. A memo may be attached if more space is necessary.

See attached.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

		COUNCIL ³							
	Change to a Course	Dept./School	College Academic	Deans	TEC	UGEC	GRAD	Provost	President
1.	Title (description unchanged)	A	A	A	I			I	I
2.	Description (not affecting content)	A	A	A	I			I	I
3.	Course term(s)	A	I	A	I			I	I
4.	Content (substantive change)	A	A	A	I			A	A
5.	Number of hours (lecture, lab, contact)	A	A	A	A			A	A
6.	Course number within the hundred	A	A	I	I			I	I
7.	Course number beyond the hundred	A	A	A	A			A	A
8.	Prerequisites	A	A	A	I			I	I
9.	Course fee(s)	A	--	A	--			A	I
10.	From U to G <i>or</i> G to U	A	A	A	A			A	A
11.	Cross list with another department: U or G level	A	A	A	A			A	A
12.	Department of record	A	A	A	A			A	A
13.	Open or close a course	A	A	A	A			A	A
14.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A	A			A	A

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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		COUNCIL ³							President	Faculty	Provost	GRAD	UUAC	UGEC	TEC	Deans	College Academic	Dept./School	Change to a Degree Plan
1.	University Requirements — Change in approved course content ⁶	A	A	A	A			A	--	A	--								
2.	University Requirements — Add or drop a required course from the University Requirements chart ⁶	A	A	A	A			A	A	A	--								
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A			A	--	A	--								
4.	University Requirements — Change hours within a menu on the University Requirements chart ⁶	A	A	A	A			A	A	A	--								
5.	Major — Revision of major ^{4,5}	A	A	A	A			A	--	A	--								
6.	Major — Adopt or change admission requirements	A	A	A	A			A	--	A	--								
7.	Major — Add ^{4,5}	A	A	A	A			A	A	A	--								
8.	Major – Discontinue (proposed by the department or college)	A	A	A	A			A	A	A	--								
9.	Major – Discontinue (proposed by the Provost)	See below.																	
10.	GPA — Revise major or cumulative requirement	A	A	A	A			A	A	A	--								
11.	Minor — Revise course selection	A	A	A	I			I	--	I	--								
12.	Minor — Add	A	A	A	A			A	--	A	--								
13.	Minor – Discontinue (proposed by the department or college)	A	A	A	A			A	--	A	--								
14.	Minor – Discontinue (proposed by the Provost)	See below.																	
15.	Degree — Add	A	A	A	A			A	A	A	--								
16.	Degree – Discontinue (proposed by the department or college)	A	A	A	A			A	A	A	--								
17.	Degree – Discontinue (proposed by the Provost)	See below.																	
18.	Any change to a graduate degree program	A	A	A	A			A	--	A	--								

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UUAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL ³										
	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	--	--	--	A			A	A	A
2.	Admission requirements	--	--	--	A			A	A	A
3.	Policies governing academic probation and suspension	--	--	--	A			A	A	A
4.	Requirements for graduating with honors	--	--	--	A			A	A	A
5.	Other academic policy changes	--	--	--	A			A	--	A

¹ Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

² The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

⁶ Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

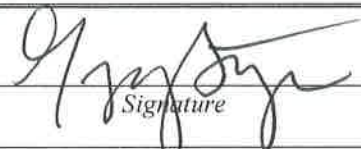
⁷ The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 3-8-17

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	10/01/2018 Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	11-2-2018 Approval date
_____ Signature	_____ Approval date

Dean(s)	
 Signature	11/7/18 Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date

MATW 109

We propose to change the number of laboratory hours for a section of MATH 109. This section of MATH 109 will be called MATW 109 (Precalculus I) that will be offered every fall and spring semester. This course will be the same as MATH 109, except that this course will have an embedded workshop. We propose 3 hours of lecture, 2 hours of lab (workshop), and 3 hours of credit.

Rationale

Currently students who are just below the placement score for MATH 109 are required to enroll in MATW 019 before they can enroll in MATH 109. By having a workshop section (MATW), we will be able to have students complete their mathematics requirement without the need for a developmental course and we will be able to provide additional instruction and support to these students through the two-hour embedded workshop.

The number of students who are required to take MATH109 has increased with the addition of the engineering program and with students being less prepared when they come to ACU. In 2016-17, we had 106 students in three sections of MATH 109. In 2017-18, we had 181 students in four sections of MATH 109. In fall 2018, we have 94 students in three sections of MATH 109. Over the past several years, 10–20 students per semester could have benefitted from a MATW 109 section.

In addition, by having a section of MATW 109, the department will now have a workshop course to match every beginning mathematics course: MATH 109/MATW 109, MATH 120/MATW 120, MATH 123/MATW 123, and MATH 130/MATW 130. This will allow more students to get their mathematics credit without having to take a developmental mathematics course. Another benefit of this will be fewer students will need to enroll in MATW 019.

The learning objectives for this MATW 109 are the same as the learning objectives for MATH 109.

Competencies	Measurement Instrument	Measurement Standard
The student will be able to demonstrate an understanding of the concept of a function.	Tests, quizzes, and homework	• Identifies properties of the function, such as domain, range, intercepts, etc. • Performs function calculations (addition, subtraction, multiplication, division, and composition) numerically, graphically, and symbolically • Calculates the inverse of a function (when it exists) • Represents functions numerically, graphically, and symbolically • Interprets the graphs of functions
The student will be able to analyze transformations of functions by using the properties of parent functions and their behaviors.	Tests, quizzes, and homework	• Uses properties of parent functions to identify transformations • Uses properties of parent functions to identify behaviors such as increasing, decreasing, and end behavior • Uses properties of parent functions to

		identify extrema of transformed functions
The student will be able to analyze and interpret a regression model.	Tests, quizzes, and homework	• Describes the trend of the data • Utilizes the correlation coefficient or the coefficient of determination to describe the fit of the model to a real-world application • Uses the regression model to predict a possible future outcome
The student will be able to demonstrate a knowledge of exponential functions in terms of real world growth and decay	Tests, quizzes, and homework	• Explains the differences among linear, quadratic and exponential growth • Uses exponential equations to model growth and decay • Solves exponential equations using logarithmic functions

The prerequisites for this section will be the same as the prerequisites for MATW 120, MATW 123, and MATW 130. These prerequisites are the following:

- MATH SAT (prior to March 1, 2016) score of 400-490;
- MATH SAT (after March 1, 2016) score of 440-520;
- MATH ACT score of 17-19;
- mathematics placement into MATW 109; or
- a passing grade in MATW 019.

The course description for MATW 109 is essentially the same as the course description for MATH 109. The only difference will be the prerequisites and a statement about the embedded workshop for MATW 109.

MATW 109 Precalculus I (3-2-3), fall, spring. Properties, graphs, and applications of linear functions, quadratic functions, logarithmic functions, exponential functions. Includes an embedded workshop. Prerequisite: Meet one of the following - MATH SAT (prior to March 1, 2016) score of 400-490; MATH SAT (after March 1, 2016) score of 440-520; MATH ACT score of 17-19; MATW 019; or mathematics placement into MATW 109. May be taken only by students whose majors require precalculus mathematics or higher (animal science, biology, chemistry, computer science, environmental science, mathematics, physics, or engineering majors, pre-occupational therapy, or pre-physical therapy). A student may not receive credit for this course after receiving credit for MATH 124, 131, 185 or 186.

We also have a change that we propose to make for the 2020–21 catalog. This change is to update the prerequisites for the course. By fall of 2020, few students should have old SAT scores so we propose dropping the two different SAT prerequisites and have only the new SAT requirement.

MATW 109 Precalculus I (3-2-3), fall, spring. Properties, graphs, and applications of linear functions, quadratic functions, logarithmic functions, exponential functions. Prerequisite: Meet one of the following - ~~MATH SAT (prior to March 1, 2016) score of 400-490; MATH SAT (after March 1, 2016) score of 440-520; MATH ACT score of 17-19; MATW 019; or~~ mathematics placement into MATW 109. May be taken only by students whose majors require precalculus mathematics or higher (animal science, biology, chemistry, computer science, environmental science, mathematics, physics, or engineering majors, pre-occupational therapy, or pre-physical therapy). A student may not receive credit for this course after receiving credit for MATH 124, 131, 185 or 186.