



Statewide Email

DATE SENT: May 2, 2023
FROM: Abbey Ivey, Assistant Vice Chancellor for Articulation
TO: FCS / SUS Contacts
Via: Abbey.Ivey@fldoe.org
SUBJECT: Mathematics Pathways Updates

Dear Colleagues:

The purpose of this correspondence is to provide an update on implementation of Senate Bill (SB) 366 (2021) as it relates to mathematics pathways. Mathematics pathways span multiple boards and several rules and regulations, which has required a high level of coordination between the system offices. We also want to ensure that Florida College System (FCS) and State University System (SUS) institutions are receiving the same information to aid in implementation.

As a reminder, SB 366 modified section 1007.23, Florida Statutes, to require the statewide articulation agreement to establish three mathematics pathways for students by aligning mathematics courses to programs, meta-majors, and careers. The bill also required a cross-sector faculty committee to identify the mathematics pathways and associated course sequences that align to the mathematics skills needed for success in the corresponding academic programs and careers.

We appreciate the leadership and input from institutional representatives in the development of the three pathways that were adopted in July 2022 by the Articulation Coordinating Committee: 1. Algebra through Calculus, 2. Statistical Reasoning, and 3. Mathematical Thinking in Context. Now that the State Board of Education (SBOE) (applicable for FCS institutions) has adopted the pathways in rule and the Board of Governors (applicable for state universities) adopted the mathematics pathways in regulation, we have developed an outline to provide additional clarity on expectations for institutions.

The following table includes a summary of actions to date, as well as next steps.

Date	Status	Description	Institutional Action Required
April 2022	Completed	A statutorily required committee began convening and, using a mathematical skills-based approach, finalized the three pathway recommendations and their associated learning outcomes and course sequences.	Over 500 institutional representatives completed a mathematics skill survey that was used to inform the pathways recommendations.

Date	Status	Description	Institutional Action Required
July 2022	Completed	The pathways recommendations were approved by the Articulation Coordinating Committee on July 21, 2022.	None.
October-November 2022	Completed	The Department of Education engaged in formal rulemaking to amend: <ul style="list-style-type: none"> • Rule 6A-10.024, Florida Administrative Code (F.A.C.), Articulation Between and Among Universities, Florida Colleges, and School Districts • Rule 6A-10.030, F.A.C., Other Assessment Procedures for College-Level Communication and Computation Skills • Rule 6A-14.0303, F.A.C., General Education Core Course Options 	FCS institutions were given opportunities to provide formative feedback during rulemaking.
January 2023	Completed	The SBOE adopted amendments to: <ul style="list-style-type: none"> • Incorporate the math pathways list into the statewide articulation agreement (Rule 6A-10.024, F.A.C.) • Specify the new courses that meet the college-level computation requirements (Rule 6A-10.030, F.A.C.) • Replace MGF X106-X107 with MGF X130 in the state General Education Core (Rule 6A-14.0303, F.A.C.) 	Now that SBOE approved the three rules, FCS institutions should review the approved rule language to anticipate program changes and associated modifications to the 2024-25 catalogs.
February 2023	Completed	MGF X130 and MGF X131 are added as statewide courses in the Statewide Course Numbering System (SCNS) for institutions to begin using.	FCS and SUS institutions should review the statewide learning outcomes established for the new courses.
Variable	In progress	Institutional contacts submit electronic course requests to add MGF X130 and MGF X131 as institutional courses once the courses are approved by the institution. Below are suggestions of when the electronic requests should be submitted to SCNS based on when the new MGF courses will be taught by the institution:	After reviewing the statewide Student Learning Objectives (SLOs), institutions should begin the process of obtaining local approval (e.g., through curriculum committee) to offer the new mathematics courses. This may include adding institutional SLOs that go above the statewide SLOs.

Date	Status	Description	Institutional Action Required
		<ul style="list-style-type: none"> • For summer 2023 usage: immediately • For fall 2023 usage: June 2023 • For spring 2024 usage: November 2023 • For summer 2024 usage: March 2024 	
March 2023	Completed	The Board of Governors approved the amendments to regulation 8.005, General Education Core Course Options and regulation 6.017, Criteria for Awarding the Baccalaureate Degree, to include the math pathways.	State University System institutions should review the amended regulations, make the appropriate amendments to university policies, and anticipate program changes and associated modifications to the 2024-25 catalogs.
March 2023	Completed	The Florida Student Success Center issued Requests for Proposals (RFP) for FCS and SUS math faculty and instructional designers to create statewide open-access course shells that institutions may use. (Optional)	Interested math faculty and instructional designers should submit proposals per the RFP instructions by the extended deadline of May 12, 2023. Upon review of proposals, FCS and SUS math faculty and instructional designers will be selected to build out course shells.
April-May 2023	Not started	The Office of Articulation invites SUS and FCS institutions to provide input from discipline experts to inform the recommended pathway for program offerings by four and/or six-digit Classification of Instructional Programs (CIP) code. This will include the completion of a survey.	Shortly, FCS and SUS institutions will receive formal correspondence with information regarding the survey. Institutions will be asked to forward the survey to discipline experts at their campuses.
May-July 2023	Not started	FCS and SUS math faculty and instructional designers create statewide course shells.	FCS and SUS institutional experts may be engaged to provide formative feedback during the course shell development process. (Optional)
June 2023	In progress	The Board of Governors will consider the public notice of intent to amend regulation 8.007, Articulation, which will include information on the math pathways.	SUS institutions will be invited to provide feedback on the proposed amendment.
Late spring/summer 2023	Not started	The Department of Education will engage in formal rulemaking to amend the following to incorporate the recommended pathways by program:	FCS institutions will be invited to provide feedback during rule development.

Date	Status	Description	Institutional Action Required
		<ul style="list-style-type: none"> Rule 6A-10.024, F.A.C., Articulation Between and Among Universities, Florida Colleges, and School Districts 	
Summer 2023	Not started	<p>The SBOE will consider rule amendments:</p> <ul style="list-style-type: none"> Rule 6A-10.024, F.A.C., Articulation Between and Among Universities, Florida Colleges, and School Districts 	Once SBOE approves the rule amendments, FCS institutions should review program requirements and curriculum to ensure appropriate program alignment to the pathways and ensure students entering under 2024-25 catalogs will be advised of the new mathematics pathways.
August 2023	Not started	<p>The math faculty who developed the course shells will use them for instruction in fall 2023.</p> <p>Other institutions may pilot the course shells if they so choose.</p>	<p>FCS and SUS faculty who build the course shells will teach using the course materials.</p> <p>FCS and SUS faculty may opt-in to pilot the course shells. (Optional)</p>
January 2024	Not started	The course shells that incorporate feedback from the fall 2023 implementation are made available to all FCS and SUS institutions through Canvas.	FCS and SUS faculty may opt-in to use the course shells. (Optional)
Fall 2024	Not started	Mathematics pathways become effective for entering students.	FCS and SUS institutions are fully implementing the mathematics pathways as established in rule and regulation. In advance of this date, institutions may begin to offer the new mathematics pathways and pilot associated course shells and materials.

In the short term, institutions are encouraged to begin review of MGF X130-X131 for local adoption. Additionally, institutions should be on the lookout for a survey to provide input on discipline alignment to the three pathways. Lastly, institutions are reminded that the deadline to submit proposals in response to the RFP for the development of master course shells has been extended to May 12, 2023.

If you have questions, please contact:

- Abbey Ivey, Assistant Vice Chancellor for Articulation, at abbey.ivey@fldoe.org for questions related to the rulemaking process;
- Lynn Nelson, Assistant Vice Chancellor for Academic and Student Affairs, at lynn.nelson@flbog.edu for questions related to BOG regulations; and
- Kiaira McCoy, Director of the Florida Student Success Center, at kiaira.mccoy@fldoe.org for questions about the course shells and RFP.