DATE: April 2nd , 2019

TO: Phillip Ross Anzalone, Chair

College Council Curriculum Committee

FROM: Curriculum Subcommittee

Unurjargal Nyambuu, Robert Pochinsky, Viviana Vladutescu (Chair)

RE: Final Report for Proposal 18-02 Major Curriculum Modification in Math Education Program

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PROGRAM:** Mathematics Education

**Change:** Major

**Summary:**

The new Mathematics Education Program curriculum proposal includes the following changes:

1. It combines MAT 2071: Language, Proofs and Logic and MAT 3021: Number theory into a revised course MAT 2571, in order to remove content overlap.
2. It includes modified MAT 3080 syllabus.
3. It includes changes in the number of required observation hours for MEDU 3011 and MEDU 3020 (decrease from 60 to 25 observation hours). The credits hours for each course are changed from 4 to 3. The courses will be renamed as MEDU 3001 and MEDU 3002 respectively.
4. It removes MAT 4050 in order to streamline the content math courses, and redirects some content to the new course MEDU 3000.
5. It changes prerequisites for the following courses:
 MAT 3050: The only prerequisite will be MAT 2571 (drop pre-/co-requisite of MAT 3080);
 MAT 4030: The only prerequisite will be MAT 2571 (drop pre-/co-requisite of MAT 2071)
6. It replaces MAT 2572 with MAT 1372, which is considered to represent a better match with the required content standards.
7. It includes a new course MEDU 3000: *Mathematics of the Secondary School Curriculum;*
8. It includes a new course MEDU 3003: *Microteaching,* which includes 60 clock hours of intermediate school-based clinical experience;
9. It removes MEDU 2010 and distributes the learning of technology for teaching to the new courses MEDU 3000, MEDU 3003.
10. It removes MAT 1476L as very few students are able to take it before they take MAT 1575.
11. It includes MAT 2675: Calculus III as a required course based on results from the self-study and required content topics coverage.
12. It includes MEDU 2901: Peer-leader Training in Mathematics, which includes 20 hours of intermediate experience peer-leading groups;
13. It divides MEDU 4040: Student Teaching in Middle and High School and Student Teaching Seminar (9 credits) into 3 separate courses:

MEDU 4001: Student Teaching in the Middle School (4 credits),

MEDU 4002: Student Teaching in the High School (4 credits),

MEDU 4000: Student Teaching Seminar (4 credits)

in order to achieve greater flexibility in offering them, and to allow students to take them in different semesters, if necessary. It also includes new syllabi for the new MEDU 4000, MEDU 4001, MEDU 4002.

1. It removes EDU 4600, in order to remove content overlap with the new MEDU 4000.
2. It modifies the program learning goals/outcomes and graduation requirements, in order to make them more adequate and to reflect more adequately program and college accreditation standards.

**RATIONALE:**

The new curriculum proposal is necessitated by the following:

1. the need to add school-based intermediate experience clock hours and 30 additional days of student teaching (based on the recent recommendations of the NYS Higher Education Committee on Clinical practice <http://www.nysed.gov/clinical-practice-work-group/clinical-practice-work-group>);
2. the need for a better match between the math content coverage and standards so that we can meet the accreditation requirements (based on recent program and college self-studies for NCTM and CAEP);
3. the need for students to work in depth with high school math content topics, in order to be better prepared to student teach, to pass the CST exam, and to become better teachers (based on recent self-studies and results from licensure exams);

**CATALOG DESCRIPTION:** There will be several additions to the catalog regarding this program:

Progression and Graduation Requirements, Progression to Student Teaching Requirements, etc

**Strengths**

Overall, the new program curriculum will more adequately:
a) meet the program requirements as outlined in Commissioner's Regulations given in the link below (hp://ohe32.nysed.gov/ocue/aipr/documents/04AdolEdPCC8\_2014‐accessible.pdf.)
b) incorporates the new recommendations of the NYS Higher Education Committee on Clinical practice <http://www.nysed.gov/clinical-practice-work-group/clinical-practice-work-group>
c) respond to the new demands and challenges that the program faces outlined above.

**Weaknesses**

None

**Issues and Concerns Discussed**

The main issues were related to Gen Ed required versus recommended courses, proper alignment with CAEP requirements, prerequisites, reports, Computer Education Certificate credits etc. All issues have been addressed accordingly.

**Subcommittee Activities**

The subcommittee reviewed the proposal and discussed the list of suggestion with Prof. Nadia Stoyanova and Prof. Sandie Han on October 26th, 2018. On November 8th, 2018 and March 25th, 2019, the subcommittee and proposers also met with Provost Bonne August, Associate Provost Pam Brown, Dean Justin Vazquez-Poritz, and Kim Cardascia, Prof. Sandie Han (on November 8th). Changes discussed at these meeting were implemented in the final proposal.