1. CALL TO ORDER

2. Approval of Agenda for April 24, 2018

3. Approval of Draft Minutes for March 27, 2018 (Appendix A)

4. President’s Remarks: Interim John Engler – unable able to attend

5. Provost’s Remarks: Dr. June Youatt – unable able to attend

6. Vice Chairperson’s Remarks: Professor Deborah Moriarty

7. NEW BUSINESS

   7.1. University Committee on Curriculum (UCC) Report, Professor Marci Mechtel, UCC Chairperson (Information Item) (Appendix B Short Report)
   (Long Report, click on Link)

   7.2. Classroom Safety, Deputy Chief Kelly Roudebush, MSU Police and Public Safety (Information Item)

   7.3. Mathematics Reform, Mark Largent, Associate Dean, Undergraduate Studies and Interim Dean, Lyman Briggs (Information Item) (Appendix C)

   7.4. Proposed Changes to Academic Governance Bylaws, Dr. Gayle Lourens, University Committee on Academic Governance (UCAG) Chairperson, (Action Item)
   (Appendix D)

8. Comments from the floor

9. ADJOURNMENT
**Highlights:**

- Digital Media, Graduate Certificate, effective Fall 2018.
- K12 Computer Science Education, Graduate Certificate, effective Fall 2018.
- Media Analytics, Graduate Certificate, effective Fall 2018.
- Organizational Communication for Leadership, Graduate Certificate, effective Fall 2018.

**PROGRAM ACTIONS**

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C = Change  D=Deletion  N=New

Totals  New: 4  Change: 20  Deletion: 0
## COURSE ACTIONS
### April 17, 2018

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INFORMATION ITEMS
April 17, 2018

Moratorium –

Discontinuation –
None.

Other –
None.
MSU Gateway Math Reform

Steering Committee
April 3, 2018
Mark Largent, on behalf of the APUE
What changes are being made?

- 50% Entered with Algebra Completed
- 40% Need to Take MTH103
- 10% Need to Take MTH1825
Data: MTH 10 1/2 vs. MTH 1825

Average Grades in FS2017 MTH101 by Math Placement Score of Students Who Had Previously Passed, Failed or Not Taken MTH1825
Design Principles for MTH 103A/B

- MTH 103 (all versions) focus on path to calculus
- “Growth Mindset” - assist all students to master algebra.
- In-person classes, focused just-in-time support
- Standards-based pedagogy - ongoing teaching/learning cycle allowing development of skills over one year
- All courses degree credit-bearing
- Revised placement and pre-enrollment system, leveraging HS transcript data, for more accurate placement and planning
- **MTH 103A/B curriculum and pedagogy builds on the successful Dow/STEM program**
Avoiding Underplacement

● Underplacement delays student progression, and can contribute to stereotype threat.
● Use HS transcript analysis to refine placement.
● OPB HS transcript pattern analysis reveals that we can identify students who score low on MPE but will likely succeed. Process identified ~2000 students from 2000-2016 who
  ○ first MTH course 1825, succeeded (2.0 or higher) at 90%
  ○ first MTH course 103, succeeded (2.0 or higher) at 96%
● Change placement for these students to MTH 103 independent of MPE score - “off ramp” to MTH 103A
Math Graduation Requirements

DRAFT

The university Mathematics requirement ensures that all students build a foundation of quantitative literacy. Each student must complete the university Mathematics requirement by fulfilling one of the options below:

1. Complete two of the following courses:
   a. Mathematics 101, 102, 103 or (103A & 103B)

2. Complete both of the following:
   a. Mathematics 103 or (103A & 103B); and
   b. One of the following courses: Mathematics 114, 124, 132, 152H, or 201; or Statistics and Probability 200 or 201. Students who place into any course in 2.b. via the Mathematics Placement Exam need only complete the course in 2.b. in order to fulfill the University Mathematics requirement.

3. Complete MTH 101 or 102; and STT 200 or STT 201

4. Complete MTH 116

5. Waiver through a proctored Mathematics Placement Exam yielding a score resulting in placement in Mathematics 132 (calculus). For additional information, refer to the statement on Academic Placement Tests – Mathematics (Algebra) in the Undergraduate Education section of this catalog.

Students who transfer one of the following: Mathematics 114, or 201; or Statistics and Probability 200 or 201 alone, with no other mathematics course above the level of MTH 1825, must take the Mathematics Placement Exam. Based on the score achieved, additional coursework may be required to fulfill the university Mathematics requirement.
Math Pathways to Graduation

Michigan State University
Options for meeting the University Math Requirement
Any 1 pathway will meet the requirement

Math Placement Test 0 – 9:
(or placement by H.S. transcript)

MTH 101 & MTH 102
(can be taken in either order)

MTH 103A ➔ MTH 103B

AND Any 1 of the following:
MTH 101    MTH 102
MTH 114    MTH 124
MTH 201
STT 200    STT 201

Math Placement Test 10 – 14:
(or placement by H.S. transcript)

MTH 103

MTH 101 ➔ MTH 102

AND Any 1 of the following:
MTH 102    MTH 103
STT 200    STT 201

MTH 101 & MTH 102
OR
MTH 103 & MTH 101
OR
MTH 103 & MTH 102
OR
Any 1 of the following:
MTH 114    MTH 1116    MTH 124
(prereq MTH 103)
MTH 201    STT 200    STT 201

Math Placement Test 15 – 18:

MTH 101    MTH 102
OR
MTH 103    MTH 101
OR
MTH 103    MTH 102
OR

Math Placement Test 19+:
MTH 132 or LB 118

OR

Any 1 of the following:
MTH 114    MTH 1116    MTH 124
(prereq MTH 103)
MTH 201    STT 200    STT 201

** A Proctored Math Placement Test Score of 19 or above will also fulfill the requirement.**
MTH 1825: Ending

MTH 1825 neither needed nor offered beginning Fall 2018

- Off-sequence and summer offerings of MTH 103A/B, along with MTH 101, 102, 103, allow student to start year-round

- For students needing to repeat MTH 1825, we will associate (on an individual, as-needed, basis) successful completion of MTH 101, 102, 103, or 103B, instead.
April 2018 Status

- Resources - in hand
- Curricular planning - in progress, based on Dow/STEM
  - Teena Gerhardt, Jane Zimmerman, Becky Matz
- MTH 103A and 103B courses approved by NatSci Curriculum committee - continuing in governance
- Changes to University Math Requirement - submitted to university governance FS18
- Course and room scheduling - spaces reserved, scheduling in process
- Roll-out to campus ongoing
- Math/HUB collaboration
Discussion
Proposed insertions into the Bylaws for Academic Governance.

SECTION 1. DEFINITIONS

1.1. THE FACULTY

1.1.1. Composition of the Faculty

1.1.1.1. The regular faculty shall consist of all persons appointed under the rules of tenure and holding the rank of professor, associate professor, or assistant professor, and all persons appointed as librarians.

1.1.1.2. The fixed-term faculty shall consist of all persons holding the rank of professor, associate professor, assistant professor, or instructor, but not appointed under the rules of tenure.

1.1.1.3. The health professions faculty shall consist of all faculty appointed in the Health Programs Faculty Appointment System who hold the rank of professor, associate professor, or assistant professor in the College of Human Medicine, Nursing, Osteopathic Medicine, or Veterinary Medicine.

1.1.1.4. The Facility for Rare Isotope Beams/National Superconducting Cyclotron Laboratory (FRIB/NSCL) faculty shall consist of all faculty appointed in the FRIB/NSCL Faculty Appointment System holding the rank of professor, associate professor, or assistant professor.

1.1.1.5. The Academic Specialist shall consist of a person holding the rank of senior specialist, specialist with continuing appointment, specialist with probationary appointment, or fixed-term specialist.

1.1.1.6. The honorary faculty shall consist of visiting professors and professors emeriti.

1.1.1.7. The foregoing provisions do not preclude Presidential action to bestow certain “faculty privileges” upon employees of the University who are not members of the faculty.

1.1.2. Faculty Voting Rights

1.1.2.1. The voting faculty in the election of University-level councils and committees shall be all regular faculty, health professions faculty, and FRIB/NSCL faculty. Voting faculty also includes full-time fixed-term faculty who have served at least three consecutive years and full
time academic specialists who have served at least three consecutive years. Voting faculty must be engaged in academic activities of the University.

1.1.2.1.1 Full-time shall be defined as a workload equal to or greater than a 0.9 full time equivalent.

1.1.2.2. The voting faculty in the election of department, school, or college councils and committees and in elections pertaining to department, school, or college policies and decisions shall include all regular faculty engaged in the academic activities of that unit and may, if so provided by unit bylaws, also include health professions faculty, FRIB/NSCL faculty, fixed-term faculty, honorary faculty, specialists, lecturers, research associates, assistant instructors, or adjunct faculty.

1.1.2.3. A faculty member jointly appointed to two or more units may vote only once in a given election. In elections voted upon by two or more units, the faculty member shall vote in the unit which has primary responsibility for initiating personnel action, with respect to that faculty member.

1.1.2.4. A regular faculty member, health professions faculty member, or FRIB/NSCL faculty member may be elected to an academic governance body as a representative of any unit in which that faculty member holds faculty status.

1.1.2.5. A full-time fixed-term faculty member who has served at least three consecutive years and a full-time academic specialists who has served at least three consecutive years may be elected to an academic governance body, with the exception of the University Committee on Faculty Tenure, as a representative of any unit in which the person holds faculty status.

SECTION 3. UNIVERSITY ACADEMIC GOVERNANCE

3.3. THE FACULTY SENATE

3.3.1.2. Elected Faculty Representatives

3.3.1.2.1. Each college shall have at least two representatives, one of whom will be the Chairperson of the College Advisory Committee. Each college shall have one additional representative for every additional fifty voting faculty in excess of one hundred (1.1.2.1) not to exceed five total representatives. Each college with three or more representatives shall have at least one non-tenured faculty member among its representatives. See 2.2.5.1.