Mark Archambault

From: Ugur Abdulla
Sent: Thursday, October 19, 2017 8:46 PM
To: Mark Archambault
Cc: Tariel Kiguradze
Subject: FW: Attached Image
Attachments: 0996_001.pdf

Importance: High

Dear Mark,

Please see attached forms concerning MTH changes for the agenda of UGCC meeting next week. The following are suggested changes:

1. Changing the name of the courses MTH 1010-Mathematical Analysis 1 to MTH 1010-Honors Calculus 1; MTH 1020-Mathematical Analysis 2 to MTH 1020-Honors Calculus 2.


3. Changing CS requirements in all three undergraduate MTH programs;

4. removing CHM 1102, and adding MTH 3101, MTH 3107 and PHY 2003 to degree requirements in Applied Mathematics program.

Please let us know if there are any questions or comments.

Best regards,
Ugur

Ugur G. Abdulla, Ph.D., Dr.Sci.
Professor and Department Head
Department of Mathematical Sciences
Florida Institute of Technology
Phone: (321)6748765
Email: abdulla@fit.edu
http://my.fit.edu/~abdulla/

From: Amanda Bomser
Sent: Thursday, October 19, 2017 3:43 PM
To: Ugur Abdulla
Subject: Attached Image
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE  College of Science  DEPARTMENT  Mathematical Sciences

REQUEST IS FOR CHANGE IN COURSE  MTH  1010  Mathematical Analysis 1

TO BE INCLUDED IN 2010/2011 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes  □ No  If yes, requested name  Honors Calculus 1

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes  □ No  If yes, current credits  requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  □ Yes  □ No  If yes, please check all that apply:

□ Add  □ Remove  □ Prerequisite  □ Corequisite  Prefix  Number  □ and  □ or

□ Add  □ Remove  □ Prerequisite  □ Corequisite  Prefix  Number  □ and  □ or

□ Add  □ Remove  □ Other Restrictions*  □ Yes  □ No  If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-E CED), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions. Please enter the complete prerequisite/restriction list as it should appear if this change is approved.

☐ Yes  □ No  Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes  □ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes  □ No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1)  Tanirel Kiguradze  10/18/2017
Originator  Date  Chair, Graduate Council  Date

2)  10/18/2017
Date  OR
Department Head/Program Chair

3)  10/18/16
Date  Chair, Undergraduate Curriculum Committee  Date
Dean or Associate Dean

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCACRSE  SCADTL  SCAPREQ

SCABASE  SCARRES  ACATALOG  Operator Initials  Date

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RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

**COLLEGE**: College of Science  
**DEPARTMENT**: Mathematical Sciences

**REQUEST IS FOR CHANGE IN COURSE**:  
Prefix: 1 0 2 0  
Number: Mathematical Analysis 2  
**Course Title**:  

**TO BE INCLUDED IN 20 20 CATALOG**  
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

**IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?**  
☐ Yes  ☐ No  
If yes, requested name: Honors Calculus 2

**IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?**  
☐ Yes  ☐ No  
If yes, current credits: requested credits

**IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?**  
☐ Yes  ☐ No  
If yes, please check all that apply:

- Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  ☐ Prefix  ☐ Number  ☐ and  ☐ or
- Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  ☐ Prefix  ☐ Number  ☐ and  ☐ or

**Other restrictions may include changing the grade mode (P/F, S/N, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions. Please enter the complete prerequisite/restriction list as it should appear if this change is approved.**

**APPROVALS**: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) **Tariel Kiguradze**  10/18/2017  
 Originator  
 Date  
  
2) **Julia K. Redackle**  10/18/2017  
 Department Head/Program Chair  
 Date  
 OR  

3) **Hamid K. Raouf**  10/18/2017  
 Dean or Associate Dean  
 Date  
  
 Chair, Graduate Council  
 Date

Chair, Undergraduate Curriculum Committee  
 Date

**CATALOG & CURRICULUM MANAGER’S USE ONLY**

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<td>Date</td>
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</tbody>
</table>

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ADDING A NEW COURSE TO THE CURRICULUM

This is a request for reactivation of a course in the system. □ Yes  □ No

New courses are available beginning with the fall term in which they appear in the University Catalog.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>MTH</th>
<th>COURSE NO.</th>
<th>2010</th>
<th>CREDIT HOURS</th>
<th>ACADEMIC YEAR TO BE ADDED TO THE FILE</th>
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<tr>
<td>(e.g., CSE)</td>
<td>(e.g., 1301)</td>
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<td>Fall 2018</td>
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<td>(e.g., Fall 2010)</td>
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*Justify level if 1000-level and no co- or prerequisites

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<th>CLASS HOURS</th>
<th>LECTURE HOURS</th>
<th>LAB HOURS</th>
<th>CONTACT HOURS (CEU ONLY)</th>
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<tr>
<td>60/semester</td>
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DEPARTMENT

<table>
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<tr>
<th>Mathematical Sciences</th>
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<tbody>
<tr>
<td>(e.g., Biological Sciences)</td>
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SCHEDULE TYPE

<table>
<thead>
<tr>
<th>Lecture (A)</th>
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<tbody>
<tr>
<td>(e.g., Lecture, Lab or Special Topics/Project)</td>
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☐ COLLEGE OF AERONAUTICS - 23
☐ NATHAN M. BISK COLLEGE OF BUSINESS - 24
☐ COLLEGE OF ENGINEERING AND COMPUTING - 01

COMPUTER TITLE

<table>
<thead>
<tr>
<th>Honors Calculus 3</th>
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</table>

Restricted to 25 characters, including spaces

This course will be entered into the system as:
☐ Bi-Level □ Cross-Listed □ Dual-Numbered □ Full-Load □ None of these/Standard Listing

CATALOG TITLE

| Honors Calculus 3 |

CATALOG DESCRIPTION OF COURSE

Restricted to 350 characters, including spaces


This description has been approved by the catalog office

Catalog & Curriculum Manager 10/18/2017

In addition, please attach a course syllabus and/or more detailed description.

| RESTRICTIONS | MTH 1020
<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Corequisite</td>
<td>Course Number</td>
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□ and □ or

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□ and □ or

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<tr>
<th>ADDITIONAL RESTRICTION</th>
<th>and □ or</th>
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<tr>
<td>(e.g., Major, Class Level, Department Head Approval)</td>
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</table>

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

<table>
<thead>
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<th>SUBJECT</th>
<th>Alpha Prefix (e.g., CSE)</th>
<th>COURSE NO. (e.g., 1301)</th>
<th>TERM TO INACTIVATE</th>
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<tr>
<td>□ Yes</td>
<td>□ No</td>
<td>□ Yes</td>
<td>□ No</td>
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☐ Will this course be used to be measured program-level learning outcomes? If yes, review and signature required.

☐ Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach "Q" material for review.

☐ Will this course impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program impacted.

APPROVALS: On completion of description and course number verification, affix appropriate signatures as indicated; submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

<table>
<thead>
<tr>
<th>Originator</th>
<th>10/18/2017</th>
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<tbody>
<tr>
<td>Chair, Graduate Council</td>
<td>Date</td>
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<tr>
<th>Department Head/Program Chair</th>
<th>Date</th>
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<tr>
<td>Chair, Undergraduate Curriculum Committee</td>
<td>Date</td>
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**Chair, Academic Programs Assessment Committee

<table>
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<td>These changes/additions have been made for the</td>
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<td>University Catalog and entered into the BANNER term named above.</td>
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Catalog & Curriculum Manager  Date

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RGR-342-1017
MTH 2010: Honors Calculus 3
Fall 2018

Faculty Instructor: TBD
Office Hours: TBD
Lecture & Lab Schedule: TBD

Prerequisite: MTH 1020

Grading Policy:
Homework, including end-of-semester project → 15%
Quizzes → 15%
Midterm exams (3) → 15% each
Final Exam → 25%

Grading Scale: A: 90 – 100; B: 80 – 89; C: 70 – 79; D: 60 – 69; F: below 60. Final grades may be curved, but the curved grading scale will be at least as lenient as the one listed here. Only students with excused absences may make-up work—no exceptions (consult your student handbook). An excused absence requires either a University excuse or official documentation, e.g. a doctor’s note. ATTENDANCE IS REQUIRED.


Lecture Topics and Schedule:
- **Week 1. Geometry of Euclidean Spaces**: Vectors, dot and cross products, lines and planes, cylindrical and spherical coordinates (Chapter 5 and Section 6.3)
- **Week 2. Functions between Euclidean Spaces**: Functions of several variables, vector-valued functions, open and closed sets, continuity (Chapter 5)
- **Week 3-4. Differentiation in Several Variables**: Review of linear transformations, total derivative of a function, partial derivatives, directional derivatives, tangent planes (Sections 6.1, 6.2)
- **Midterm Exam 1**
- **Week 5-7. Differentiation Theorems**: chain rule, mean value inequality, Taylor’s Theorem in several variables, Inverse and Implicit Function Theorems (Sections 6.1, 6.2, 6.5, and 6.7-6.9)
- **Week 8-9. Optimization**: classification of critical points, method of Lagrange multipliers (Sections 6.6 and 6.10)
- **Midterm Exam 2**
- **Week 10-12. Integration in Several Variables**: iterated integrals, Fubini’s Theorem, change of variables, differentiation under the integral sign (Chapter 7)
- **Midterm Exam 3**
- **Week 13-15. Integral Calculus in Several Variables**: line and surface integrals, arc length and surface area, Fundamental Theorem for Line Integrals, Green’s Theorem, Divergence Theorem, Stokes’ Theorem (Chapter 8)
- **Final Exam**
Florida Institute of Technology

CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Science

DEPARTMENT: Mathematical Sciences

DEGREE LEVEL: Bachelor

PROGRAM TITLE: Mathematical Sciences

TO BE INITIATED WITH CATALOG YEAR: 2018/2019

CHANGE REQUESTED FOR: ☐ major program ☐ minor program

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes ☐ No Will this change impact the program’s assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Remove:
Computer Literacy requirement - “At least two courses designated as CL, one of which involves using a high level programming language.”

Add:
Computer Science requirement - Students are required to take any 2 of these 3 course: CSE 1001 - Fundamentals of Software Development 1, CSE 1002 - Fundamentals of Software Development 2, CSE 2010 - Algorithms and Data Structures

The program was originally at 123 credits, the change will increase the credit load to 125.

Apologies: On completion of appropriate department approvals, submit form to Chair, Graduate Council,
or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Tariel Higuradze 10/11/17

Chair, Graduate Council

Date

10/11/17

Date

10/11/17

Date

REGISTRAR’S USE ONLY

☐ Yes ☐ No Update completed Date Initials

CAPP / Degree Evaluation

☐ Yes ☐ No Update completed Date Initials

Catalog Management System

☐ Yes ☐ No Update completed Date

Academic Year

Academic Year
Florida Institute of Technology

CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Science
DEPARTMENT: Mathematical Sciences

DEGREE LEVEL: Bachelor
PROGRAM TITLE: Mathematical Sciences

TO BE INITIATED WITH CATALOG YEAR 20  
CHANGE REQUESTED FOR: □ major program □ minor program
7 0 7 6

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

□ Yes □ No Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Change requirement of MTH 2001 - Calculus 3 to: MTH 2001 - Calculus 3 OR MTH 2010 - Honors Calculus 3

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Turiel Kijahadee 10/18/2017
Graduat Date

Chair, Graduate Council Date

OR

Dean of Associate Dean Date

Chair, Undergraduate Curriculum Committee Date

REGISTRAR'S USE ONLY

CAPP / Degree Evaluation: □ Yes □ No Update completed Date Initials
Academic Year

Catalog Management System: □ Yes □ No Update completed Date Initials
Academic Year

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The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Science

DEPARTMENT: Mathematical Sciences

DEGREE LEVEL: Bachelor

PROGRAM TITLE: Mathematical Sciences - Applied Mathematics

TO BE INITIATED WITH CATALOG YEAR 20_18 /20_19

CHANGE REQUESTED FOR □ major program □ minor program 7077

Major/Minor Code

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes  ☐ No  Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Change in Computer Science Requirements:

Remove - (9 credits): CSE 1502 - Introduction to Software Development with C++, CSE 1503 - Introduction to Software Development with FORTAN, CSE 2050 - Programming in a Second Language

Add - Students are required to take any 2 of these 3 courses: CSE 1001 - Fundamentals in Software Development 1, CSE 1002 - Fundamentals in Software Development 2, CSE 2010 - Algorithms and Data Structures

Remove CHM 1102 - General Chemistry 2

Add MTH 3101 - Complex Variables

Add MTH 3107 - Optimization

Add PHY 2003 - Modern Physics

The program was originally at 122 credits, the changes will increase the credit load to 126.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Daniel Kigeradze 10/11/17

Chair, Graduate Council

Date

OR

Department Head / Major Program Chair

Date

Chair, Undergraduate Curriculum Committee

Date

REGISTRAR’S USE ONLY

CAPP / Degree Evaluation

☐ Yes  ☐ No Update completed _______________ Date _______________ Initials

Academic Year

Catalog Management System

☐ Yes  ☐ No Update completed _______________ Date _______________ Initials

Academic Year

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Florida Institute of Technology

CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

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<th>COLLEGE</th>
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<tr>
<td>DEPARTMENT</td>
<td>Mathematical Sciences</td>
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<tr>
<td>DEGREE LEVEL</td>
<td>Bachelor</td>
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<tr>
<td>PROGRAM TITLE</td>
<td>Mathematical Sciences - Applied Mathematics</td>
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</table>

TO BE INITIATED WITH CATALOG YEAR 2018/2019  
CHANGE REQUESTED FOR  
☐ major program  ☐ minor program  
7077  
Major/Minor Code

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes  ☐ No  Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES Attach a more detailed description and any supporting documentation

Change requirement of MTH 2001 - Calculus 3 to: MTH 2001 - Calculus 3 OR MTH 2010 - Honors Calculus 3

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

<table>
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<tr>
<td>OR</td>
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<tr>
<td>Department Head / Minor Program Chair</td>
<td>10/18/2017</td>
</tr>
<tr>
<td>Chair, Undergraduate Curriculum Committee</td>
<td>Date</td>
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<tr>
<td>Dean or Associate Dean</td>
<td>10/18/17</td>
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REGISTRAR’S USE ONLY

| CAPP / Degree Evaluation |  
| Academic Year | ☐ Yes  ☐ No  Update completed | Date | Initials |
| Catalog Management System |  
| Academic Year | ☐ Yes  ☐ No  Update completed | Date | Initials |
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Science
DEPARTMENT: Mathematical Sciences

DEGREE LEVEL: Bachelor
PROGRAM TITLE: Biomathematics

TO BE INITIATED WITH CATALOG YEAR 2018/2019
CHANGE REQUESTED FOR: □ major program □ minor program 7078

Program changes are effective beginning with the full term in which they appear in the University Catalog.

□ Yes □ No Will this change impact the program’s assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Change in Computer Science Requirements

Remove - (9 credits): CSE 1001 - Fundamentals of Software Development 1, CSE 1502 - Introduction to Software Development with C++, CSE 2050 - Programming in a Second Language

Add - Students are required to take any 2 of these 3 courses: CSE 1001, CSE 1002, CSE 2010

The program was originally at 134 credits, the change will decrease the credit load to 132.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Originator: Date
Chair, Graduate Council: Date

Department Head / Minor Program Chair: Date
Chair, Undergraduate Curriculum Committee: Date

Registrar’s Use Only

☐ Yes ☐ No Update completed Date Initials

CAPP / Degree Evaluation
Academic Year

☐ Yes ☐ No Update completed Date Initials

Catalog Management System
Academic Year

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Florida Institute of Technology

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE  Science

DEPARTMENT  Mathematical Sciences

DEGREE LEVEL  Bachelor

PROGRAM TITLE  Biomathematics

TO BE INITIATED WITH CATALOG YEAR 2018/2019

CHANGE REQUESTED FOR  □ major program  □ minor program  7078

Major/Minor Code

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes  ☐ No  Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES  Attach a more detailed description and any supporting documentation

Change requirement of MTH 2001 - Calculus 3 to: MTH 2001 - Calculus 3 OR MTH 2010 - Honors Calculus 3

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Tariel Kiguradze  10/18/2017

Chair, Graduate Council

Date

OR

Dean or Associate Dean

10/18/17

Date

REGISTRAR'S USE ONLY

CAPP / Degree Evaluation

☐ Yes  ☐ No  Update completed  ________________  Initials

Academic Year

Date

Catalog Management System

☐ Yes  ☐ No  Update completed  ________________  Initials

Academic Year

Date