January 16, 2013

Dear Curriculum Committee Members,

The Department of Mathematics is proposing changes to the prerequisites for Math 111, Pre-Calculus, and Math 120, Calculus I. For Math 111 the requested change is from “placement or Math 101” to “placement or C- or better in Math 101”, and for Math 120 from “placement or Math 111” to “placement or C- or better in Math 111”.

Both courses have high DFW rates. As a result, students often need to retake the course or its prerequisite, taking as much as a year to get back to where they were or change majors. Both outcomes are undesirable, since the former results in a longer time to degree and the latter results in limited major options, especially for STEM fields. In an effort to reduce the DFW rates, the Department of Mathematics wishes to employ well-established methods: more finely tuned prerequisites along with a good placement exam. This proposal is in support of the former method, and the Department of Mathematics is in the process of seeking approval to institute the latter.

Data that we have collected and analyzed strongly indicate students making below a C- in Math 101 and Math 111 have a low likelihood of completing Math 111 and Math 120, respectively.

Included in this packet are the completed Faculty Curriculum Committee Course Forms and responses from affected departments and programs.

Please inform me if you require more information to help in your consideration of our requests.

Sincerely yours,

Bob Mignone, Chair
Department of Mathematics
Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, please start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT INFORMATION.

Name: Bob Mignone          Phone: 953-5740          Email: migner@cofc.edu
Department or Program: Math          School: SSM

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J, K)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J, K)
☐ Course Number
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☒ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J, K)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J, K)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

The current prerequisite for Math 111 is “placement or Math 101”. The Math Department wants to change the prerequisite for Math 111 to “placement or C- or better in Math 101”. The data that we have collected show that students making below a C- in Math 101 have a low probability of completing Math 111 successfully, that is with a C- or higher.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

Acknowledgement from other departments/programs will be provided by emails from the impacted departments or programs, as suggested by Dan Greenburg.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Math  School: SSM  Subject Acronym: MATH  Course number: 111

Credit hours:  __4__ lecture  __ lab  __ seminar  __ independent study
Contact hours:  __4__ lecture  __ lab  __ seminar  __ independent study

Course title: Precalculus

Course description (maximum 50 words, exactly as it appears in the catalog):

Math 111 is a course that emphasizes the function concept. Topics include graphs of functions, the algebra of functions, inverse functions, the elementary functions and inequalities.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
Placement or Math 101

Cross-listing, if any:

Is this course repeatable?  □ yes  □ no  If yes, how many total credit hours may the student earn? 

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use **boldface** for the information that is changing.

Department: Math  School: SSM  Subject Acronym: MATH  Course Number: 111

Credit hours:  __4__ lecture  __ lab  __ seminar  __ independent study
Contact hours:  __4__ lecture  __ lab  __ seminar  __ independent study

Course title:

Course description (maximum 50 words, exactly as it appears in the catalog):

Math 111 is a course that emphasizes the function concept. Topics include graphs of functions, the algebra of functions, inverse functions, the elementary functions and inequalities.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
Placement or C- or better in Math 101

Cross-listing, if any (submit approval from relevant department):

Is this course repeatable?  □ yes  □ no  If yes, how many total credit hours may the student earn? 

Is there an activity, lab, or other fee associated with this course?  □ yes  □ no  
Note: All fees require approval from the Board of Trustees.

If this is a newly-created course, is it intended to be the equivalent of an existing course?  □ yes  □ no
If so, which course?  _____________  Note: You must deactivate the course by submitting an additional Course Form.
G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

There are no costs associated with the prerequisite changes.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
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<td>What will students know and be able to do when they complete the course?</td>
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</table>

1. 

2. 

3. 

4. 

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? If so, please explain briefly and attach a Change Minor or Change Major/Program Form as appropriate.

There will be no changes to any new or existing degree requirements besides the prerequisite of a C- in Math 101.
J. CHECKLIST.

☑ I have completed all relevant parts of the form.
☑ I have attached a cover letter that describes my request and lists all the documents I am submitting.
☐ (For new courses only) I have attached a syllabus. ◯ A
☑ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.
☑ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

K. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:

[Signature]

Date: 11/8/2017

2. Signature of Academic Dean:

[Signature]

Date: 1/18/13

3. Signature of Provost:

[Signature]

Date: 2/4/13

4. Signature of Curriculum Committee Chair:

[Signature]

Date: __________________

5. Signature of Faculty Senate Secretary:

[Signature]

Date: __________________

Date Approved by Faculty Senate: __________________

Page 4 of 4
Programs or Courses Impacted by Math 111 Prerequisite Changes

- Prerequisite Change
  MATH 111
  Current: Placement or MATH 101
  Proposed: Placement or C- or better in MATH 101

**Majors:**
- Computing in the Arts Major
- Early Childhood Education Major
- Elementary Education Major
- Geology (B.A.) Major
- Geology (B.S.) Major
- Middle Grades Education
- Psychology (B.A.)
- Psychology (B.S.)
- Secondary Education Cognate Major
- Special Education Major
- Public Health (B.A.)
- Public Health (B.S.)

**Minors:**
- Discovery Informatics Minor

Note: Some of these programs or courses listed are on the list because in the catalogue they have specifically listed every general education math course as a course that students can take.
No problem for me. Our students can still take math 105 to be in the b – school.

Frank Hefner
Professor of Economics
Department of Economics and Finance
School of Business
College of Charleston
Charleston, S.C. 29424

Tel: (843) 953-8111
Fax: (843) 953-5697

Does anyone have any comments?

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this
decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterd@cofc.edu
Hi Debby,
This proposal was recently discussed at an SSM Chair's meeting, and Biology faculty have also seen this proposal. We have no problem with its implementation, and you can list the Department of Biology among the supporters of the proposed change.

Sincerely,
Jaap

----
Jaap Hillenius
Professor & Chair
Department of Biology
College of Charleston
66 George Street
Charleston, SC 29424
USA

T: (843) 953-5504
F: (843) 953-5453
E: hilleniusw@cofc.edu

From: <Jeter>, Deborah W <JeterD@cofc.edu>
Date: Wednesday, November 14, 2012 1:45 PM
To: "Delaurell, Roxane M" <DelaurellR@cofc.edu>, "Kuthirummal, Narayanan" <KuthirummalN@cofc.edu>, "Riggs-Gelasco, Pamela Jo" <GelascoP@cofc.edu>, Willem Jacob Hillenius <hilleniusw@cofc.edu>, "Mack, Rhonda W" <MackR@cofc.edu>, "Starr, Christopher Wilson" <StarrC@cofc.edu>, "Anderson, Paul E" <andersonpe2@cofc.edu>, "Van Sickle, Meta L" <VansickleM@cofc.edu>, "Evans, Jocelyn D" <EvansJ@cofc.edu>, "Colgan, Mitchell W" <ColganM@cofc.edu>, "Frash, Robert Ellis" <FrashR@cofc.edu>, "Blose, Julia E" <BloseJ@cofc.edu>, "Ross, Thomas P" <RossTP@cofc.edu>, "Flynn, Michael G" <FlynnMG@cofc.edu>
Subject: Math Dept proposed changes in prerequisite for Math 120

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this
decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterd@cofc.edu
Debby:

Thanks for the notification. I can see no problem with this from our end.

Roxane

Roxane DeLaurell JD, LLM, PhD
Chair
Accounting and Legal Studies
Beatty 403
5 Liberty Street
School of Business
College of Charleston
Charleston, SC 29424
843.953.5358
Assistant: Syndia Hill 843.953.7835

On 11/14/12 1:45 PM, "Jeter, Deborah W" <JeterD@cofc.edu> wrote:

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Deborah,

Sounds good to me. I will forward to the department, but I think everyone will understand this rationale.

Pam

From: Jeter, Deborah W
Sent: Wednesday, November 14, 2012 1:45 PM
To: Delaurell, Roxane M; Kuthirummal, Narayanan; Riggs-Gelasco, Pamela Jo; Hillenius, Willem Jacob; Mack, Rhonda W; Starr, Christopher Wilson; Anderson, Paul E; Van Sickle, Meta L; Evans, Jocelyn D; Colgan, Mitchell W; Frash, Robert Ellis; Blose, Julia E; Ross, Thomas P; Flynn, Michael G
Subject: Math Dept proposed changes in prerequisite for Math 120

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,

Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterdj@cofc.edu
Hi Debby,
Thank you for notifying our department. Please accept this email reply as my acknowledgement of your notification, and that I am in support of this proposal.
Tom

Thomas P. Ross, Ph.D.
Professor and Chair,
Department of Psychology
57 Coming Street, Room 104
Charleston, SC 29401
Voice Mail: (843) 953-3339
Fax: (843) 953-7151
Email: rosstp@cofc.edu

From: Jeter, Deborah W
Sent: Wednesday, November 14, 2012 1:46 PM
To: Delaurell, Roxane M; Kuthirummal, Narayanan; Riggs-Gelasco, Pamela Jo; Hillenius, Willem Jacob; Mack, Rhonda W; Starr, Christopher Wilson; Anderson, Paul E; Van Sickle, Meta L; Evans, Jocelyn D; Colgan, Mitchell W; Frash, Robert Ellis; Blose, Julia E; Ross, Thomas P; Flynn, Michael G
Subject: Math Dept proposed changes in prerequisite for Math 120
Importance: High

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Hello Debby,
I am happy to inform you that we have no objection in raising the minimum grade from D- to C-.
Thanks,
-NK.

Narayanan Kuthirummal, Ph.D.
Associate Professor and Chair
Department of Physics and Astronomy
College of Charleston
Charleston, SC 29424.

Phone: 843-953-7457
Fax: 843-953-4824

---

From: Jeter, Deborah W
Sent: Tuesday, January 15, 2013 3:54 PM
To: Kuthirummal, Narayanan
Subject: RE: Math Dept proposed changes in prerequisite for Math 120

N.K.

We are raising the minimum grade from D- to C-.

Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterd@cofc.edu

---

From: Kuthirummal, Narayanan
Sent: Tuesday, January 15, 2013 3:49 PM
To: Jeter, Deborah W
Subject: RE: Math Dept proposed changes in prerequisite for Math 120

Hi Debby,
I have been waiting to hear from my faculty. Just to clarify, are you raising the entrance grade from D- to C-, or dropping it from C to C-?
Thanks,
From: Jeter, Deborah W
Sent: Monday, January 14, 2013 7:11 AM
To: Kuthirummal, Narayanan; Blose, Julia E; Flynn, Michael G; Colgan, Mitchell W; Frash, Robert Ellis; Anderson, Paul E
Subject: Math Dept proposed changes in prerequisite for Math 120

Bob asked me to resend this to get your input and approval.

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CoFC Fall 2011 or Spring 2011 after completing 111 at CoFC, are what we base this decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterd@cofc.edu
Sounds good to me. CS is working towards similar requirements for our majors.

Paul

--

Paul E. Anderson, Ph.D.
Assistant Professor, Department of Computer Science
Director, Discovery Informatics Program
College of Charleston
66 George St, Charleston, SC 29424
phone: (843) 953-8151
e-mail: andersonp@cs.cofc.edu
http://ds.cs.cofc.edu

On Mon, Jan 14, 2013 at 7:02 AM, Jeter, Deborah W <JeterD@cofc.edu> wrote:

Mitch, Michael, and Paul,

Bob asked me to resend this email to get your approval of our proposed changes.

The Mathematics Department is proposing a prerequisite change for Math 111. The current prerequisite for Math 111 is Placement or Math 101. We are proposing that the prerequisite be changed to Placement or C- or better in Math 101. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 101 and then went on to attempt Math 111 had very little likelihood of passing Math 111, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 111, along with the records of all students who attempted Math 111 at CofC Fall 2011 or Spring 2011 after completing 101 at CofC, are what we base this decision on. We are proposing this change because we want to ensure that students who are placed in Math 111 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially
affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,

Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Phone: 843 953-8023
Fax 843 953-1410
Email: jeterd@cofc.edu
Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, please start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT INFORMATION.

Name: Bob Mignone          Phone: 953-5740          Email: mignonc@cofc.edu
Department or Program: Math          School: SSM

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J, K)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J, K)
☐ Course Number
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☒ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J, K)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J, K)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

The current prerequisite for Math 120 is “placement or Math 111”. The Math Department wants to change the prerequisite for Math 120 to “placement or C- or better in Math 111”. The data that we have collected show that students making below a C- in Math 111 have a low probability of completing Math 120 successfully, that is with a C- or higher.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

Acknowledgement from other departments/programs will be provided by emails from the impacted departments or programs, as suggested by Dan Greenburg.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Math  School: SSM  Subject Acronym: MATH  Course number: 120

Credit hours:  4 lecture  lab  seminar  independent study
Contact hours:  4 lecture  lab  seminar  independent study

Course title: Introductory Calculus

Course description (maximum 50 words, exactly as it appears in the catalog):

This introductory calculus course for students in mathematics and the natural sciences includes the calculus of algebraic, trigonometric, exponential and logarithmic functions. Topics will include limits and continuity, derivatives, the Mean Value Theorem, applications of derivatives, the Riemann integral and the Fundamental Theorem of Calculus. A thorough knowledge of precalculus concepts will be assumed.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
  Placement or Math 111

Cross-listing, if any:

Is this course repeatable?  yes  no  If yes, how many total credit hours may the student earn?  

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department: Math  School: SSM  Subject Acronym: MATH  Course Number: 120

Credit hours:  4 lecture  lab  seminar  independent study
Contact hours:  4 lecture  lab  seminar  independent study

Course title:

Course description (maximum 50 words, exactly as it appears in the catalog):

This introductory calculus course for students in mathematics and the natural sciences includes the calculus of algebraic, trigonometric, exponential and logarithmic functions. Topics will include limits and continuity, derivatives, the Mean Value Theorem, applications of derivatives, the Riemann integral and the Fundamental Theorem of Calculus. A thorough knowledge of precalculus concepts will be assumed.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
  Placement or C- or better in Math 111

Cross-listing, if any (submit approval from relevant department):

Is this course repeatable?  yes  no  If yes, how many total credit hours may the student earn?  

Is there an activity, lab, or other fee associated with this course?  yes  no

Note: All fees require approval from the Board of Trustees.
If this is a newly-created course, is it intended to be the equivalent of an existing course?  □ yes  □ no
If so, which course?  ____________  Note: You must deactivate the course by submitting an additional Course Form.

G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

There are no costs associated with the prerequisite changes.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? If so, please explain briefly and attach a Change Minor or Change Major/Program Form as appropriate.

There will be no changes to any new or existing degree requirements besides the prerequisite of a C- in Math 111.
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✓ I have completed all relevant parts of the form.
✓ I have attached a cover letter that describes my request and lists all the documents I am submitting.
☐ (For new courses only) I have attached a syllabus.  
✓ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.
✓ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

K. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:
   [Signature]
   Date: 11/8/2012

2. Signature of Academic Dean:
   [Signature]
   Date: 1/18/2013

3. Signature of Provost:
   [Signature]
   Date: 2/4/2013

4. Signature of Curriculum Committee Chair:
   [Signature]
   Date: ____________

5. Signature of Faculty Senate Secretary:
   [Signature]
   Date: ____________

Date Approved by Faculty Senate: ____________________
Programs or Courses Impacted by Math 120 Prerequisite Changes

- Prerequisite Change
  MATH 120
  Current: Placement or MATH 111
  Proposed: Placement or C- or better in MATH 111

  **Majors:**
  - Accounting
  - Astronomy
  - Astrophysics
  - Biochemistry
  - Biology (B.S.)
  - Biology Major w/ Concentration in Molecular Biology
  - Biology Major Teaching Option
  - Business Administration
  - Chemistry (B.A.)
  - Chemistry (B.S.)
  - Computer Information Systems
  - Computer Science (B.A.)
  - Computer Science (B.S.)
  - Discovery Informatics
  - Early Childhood Education
  - Economics Major
  - Elementary Education
  - Geology (B.A.)
  - Geology (B.S.)
  - Hospitality & Tourism Management
  - International Business
  - Marine Biology Major
  - Mathematics (B.A.)
  - Mathematics (B.S.)
  - Middle Grades Education
  - Physics (B.A.)
  - Physics (B.S.)
  - Psychology (B.A.)
  - Psychology (B.S.)
  - Secondary Education Cognate Major
  - Special Education
  - Public Health (B.A.)
  - Public Health (B.S.)

  **Minors:**
  - Computer Information Systems Minor
  - Pre-Actuarial Studies Minor

Note: Some of these programs or courses listed are on the list because in the catalogue they have specifically listed every general education math course as a course that students can take.
From: Flynn, Michael G  
Sent: Monday, January 14, 2013 9:42 AM  
To: Jeter, Deborah W  
Subject: Re: Math Dept. proposed changes for prerequisites for Math 111

These changes make sense and I received no concerns from faculty when they were proposed last semester.

Mike

Sent from my iPad
Please excuse any typos or auto corrects.

On Jan 14, 2013, at 7:02 AM, "Jeter, Deborah W" <jeterD@cofc.edu> wrote:

Mitch, Michael, and Paul,

Bob asked me to resend this email to get your approval of our proposed changes.

The Mathematics Department is proposing a prerequisite change for Math 111. The current prerequisite for Math 111 is Placement or Math 101. We are proposing that the prerequisite be changed to Placement or C- or better in Math 101. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 101 and then went on to attempt Math 111 had very little likelihood of passing Math 111, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 111, along with the records of all students who attempted Math 111 at CofC Fall 2011 or Spring 2011 after completing 101 at CofC, are what we base this decision on. We are proposing this change because we want to ensure that students who are placed in Math 111 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Debby

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Debby Jeter  
Associate Chair  
Department of Mathematics  
College of Charleston  
66 George Street  
Charleston, SC 29424  
Phone: 843 953-8023  
Fax 843 953-1410  
Email: jeterd@cofc.edu
Hi Debby,
Thank you for notifying our department. Please accept this email reply as my acknowledgement of your notification, and that I am in support of this proposal.

Tom

Thomas P. Ross, Ph.D.
Professor and Chair,
Department of Psychology
57 Coming Street, Room 104
Charleston, SC 29401
Voice Mail: (843) 953-3339
Fax: (843) 953-7151
Email: rosspt@cofc.edu

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Thanks in advance for your input and support.

Best,
The Department of Computer Science is in full support of the proposed change to the MATH 111 prerequisite.

Chris Starr

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Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Debbie, thank you for the information. We will discuss this change at our department meeting on Friday. If I do not reply, then the faculty think the change is fine. I am guessing they will think it is fine because we do not have students in teacher education who earn D or F grades in Math 101 because they do not meet our entry requirements.

meta

From: <Jeter>, "Jeter, Deborah W." <JeterD@cofc.edu>
Date: Wednesday, November 14, 2012 1:47 PM
To: acts <vansicklem@cofc.edu>, "Starr, Christopher Wilson" <StarrC@cofc.edu>, "Colgan, Mitchell W" <ColganM@cofc.edu>, "Flynn, Michael G" <FlynnMG@cofc.edu>, "Anderson, Paul E" <Andersonpe2@cofc.edu>, "Ross, Thomas P" <RossTP@cofc.edu>
Cc: "Mignone, Robert J." <mignoner@cofc.edu>
Subject: Math Dept. proposed changes for prerequisites for Math 111

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Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics
College of Charleston
66 George Street
Charleston, SC 29424
Hi Debby:

The marketing and supply chain management department supports this proposed change to the pre-requisite for Math 120.

thanks,

julie

julia e. blose, ph.d.
chair, department of marketing and supply chain management
school of business
college of charleston
blosej@cofc.edu
843-953-7659

Bob asked me to resend this to get your input and approval.

The Mathematics Department is proposing a prerequisite change for Math 120. The current prerequisite for Math 120 is Placement or Math 111. We are proposing that the prerequisite be changed to Placement or C- or better in Math 111. The historical data that we received from Institutional Research shows that students who earned below a C- in MATH 111 and then went on to attempt Math 120 had a small likelihood of passing Math 120, and an even smaller likelihood of getting better than a D. Our personal experience from years of teaching Math 120, along with the records of all students who attempted Math 120 at CofC Fall 2011 or Spring 2011 after completing 111 at CofC, are what we base this decision on. We are proposing this change because we want to insure that students who are placed in Math 120 have a reasonable chance for success.

The Math Department plans to submit this change to the Provost’s Office as soon as possible. It will then be forwarded to the Faculty Curriculum Committee and the Faculty Senate. Since this change could potentially affect your department we appreciate your feedback and your acknowledgement of our proposed change. Please respond to me by email and we can include your responses with our proposal.

Thanks in advance for your input and support.

Best,
Debby

Debby Jeter
Associate Chair
Department of Mathematics