November 7, 2017

To: Dean Van Galen, Chancellor
   116 North Hall
   University of Wisconsin-River Falls

From: Mialisa Moline, Chair
       Faculty Senate
       University of Wisconsin-River Falls

Re: UWRF Faculty Senate Motion 2017-18/44

The following motion was approved unanimously, with 19 in favor, 0 opposed, and 0 abstentions, by the Faculty Senate on November 1, 2017:

Motion from Academic Programs and Policy Committee (Mialisa Moline, interim chair) to approve proposed program change: revisions to the Agricultural Education program (attached).

Approved

Disapproved

Dean Van Galen, Chancellor

Date

11/13/17
# UWRF - Program Change Transmittal Form

Instructions: In a separate document, a) include a rationale for the requested changes or new program, b) clarify which courses have not been approved, c) include a listing of course array for the current as well as the proposed program, d) include minutes from the department meeting where the requested changes were approved. On the addendum to this form: a) include signatures from all department chairs and deans whose programs will be affected by the proposal, b) secure all signatures prior to review by all other shared governance levels.

**Undergraduate Program Change**

<table>
<thead>
<tr>
<th>Preparer(s)</th>
<th>College</th>
<th>Department</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Buttes</td>
<td>CAFES</td>
<td>Agricultural Education</td>
<td>April 18, 2017</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Implementation Term</th>
<th>Nature of Proposal</th>
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<tbody>
<tr>
<td>Agricultural Education</td>
<td>Fall 2018</td>
<td>An existing program</td>
</tr>
</tbody>
</table>

Have all courses been approved? Yes

Requested changes (select all that apply):
- ☑ Name change
- ☑ Credits change
- ☑ Curriculum change
- ☑ Change in major
- ☐ Change in minor
- ☐ Change in option/emphasis
- ☑ Other

**Reviewed and approved by**

<table>
<thead>
<tr>
<th>Reviewed by</th>
<th>Approval date</th>
<th>Signature of Chair/Dean</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>Agricultural Education</td>
<td>4/11/2017</td>
</tr>
<tr>
<td>College Curriculum Committee</td>
<td>CAFES</td>
<td>5/4/17</td>
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<td>Dean of CAFES</td>
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<td>Acad. Policy &amp; Program Committee</td>
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<td>Faculty Senate</td>
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<tr>
<td>Provost/Vice Chancellor</td>
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<td>11/15/17</td>
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<tr>
<td>Chancellor</td>
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Revised: Fall 2015
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<tr>
<td>Plant and Earth Science</td>
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<tr>
<td>Biology</td>
<td>19 April 2017</td>
<td>[J. Alfred Bonilla, Ph.D.]</td>
</tr>
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<td><strong>Signature</strong></td>
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<td>Agricultural Economics</td>
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<td>Ag. Eng. Technology</td>
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## Signatures of Additional Departments and Colleges Affected

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<th>Date</th>
<th>Signature of Chair/Dean</th>
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<td>Dean of</td>
<td>CEPS</td>
<td>10/23/2017 Michael Harris</td>
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<td>Dean of</td>
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Proposed changes to the agricultural education major – Spring 2017

Rationale for the requested changes:

The proposed changes in the requirements for the agricultural education program 1) respond to changes implemented by the Agricultural Economics, Animal and Food Science, and the Teacher Education departments; 2) increase alignment with changes made to the Wisconsin standards for Agriculture, Food and Natural Resources programs; Agriculture Praxis Subject Matter Assessment (formerly called Praxis II); and Standards for School-Based Agricultural Education Teacher Preparation Programs; 3) address concerns identified in program assessment; and 4) clarify required prerequisite courses in the foundations section.

Changes in response to other departments include:

- Switching to the new student teaching course numbers.
- Replacing AGEC 230 with 101 in the foundations section.
- Moving from requiring ANSC 231, which is moving to 4 credits, to allowing students to select any ANSC or DASC course for 2-3 credits.
- Expanding the options for a genetics/biotechnology related course to include AFES 222 and BIOL 350 since ANSC 257 is moving to 4 credits. Only students completing the Biology – Education minor will have the BIOL 240 prerequisite to take BIOL 350. This substitution has been accomplished through a program exception for several years.

The proposed requirements better address all of the pathways in the Agriculture, Food, and Natural Resources (AFNR) Career Cluster, a common element across new standards for agricultural education programs in Wisconsin pK-12 schools, revisions to the national standards for programs that prepare agricultural education teachers, and changes in the content of the Praxis Subject Matter Assessment for agricultural education. Moving FDSC 110 and FDSC 113 to required classes and adding AFES 223 support learning in the Food Science/Biotechnology section of the Praxis Subject Matter Assessment, an area where UWRF students score below the state average.

Program assessment identified that many seniors felt unprepared to teach content in the Power, Structural, and Technical Systems pathway. This is also an area where UWRF students score below the state and national averages on the Praxis Subject Matter Assessment. Moving AET 255 to a required course along with adding AET 112 and AGED 230 provide preparation more consistent with the content in the Praxis test and additional focus on how to teach this content.

Three of the foundation courses (AGEC, ANSC, PLSC) are required prerequisite for other courses in the major. In the existing program, this must be conveyed to students through advising since it is not clear on the DAR. The proposed curriculum makes it clear that these courses are required by keeping the three in the list of foundations requirements and creating a new section where students pick between two options that address the Natural Resources Systems pathway.

Clarify which courses have not been approved:
All of the courses listed in the proposed program have been approved.

Course array for the current as well as the proposed program:
<table>
<thead>
<tr>
<th>Existing</th>
<th>Proposed</th>
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<tbody>
<tr>
<td><strong>Professional Education Requirements – 32 cr.</strong></td>
<td><strong>Professional Education Requirements – 32 cr.</strong></td>
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<tr>
<td>AGED 120 Orientation to Agriculture and Extension Education 1 cr.</td>
<td>AGED 120 Orientation to Agriculture and Extension Education 1 cr.</td>
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<td>AGED 201 Program Delivery in Agricultural, Extension, and Leadership Education 2 cr.</td>
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<td>SPED 330 Introduction to Special Education 3 cr.</td>
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<td>TED 212 Educational Psychology: Middle and Secondary Education (writing intensive) 5 cr.</td>
<td>TED 212 Educational Psychology: Middle and Secondary Education (writing intensive) 5 cr.</td>
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<td>TED 252 Foundations of Multicultural Education 3 cr.</td>
<td>TED 252 Foundations of Multicultural Education 3 cr.</td>
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<tr>
<td>TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.</td>
<td>TED 422 Content Area Literacy in Middle and Secondary Schools 3 cr.</td>
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<tr>
<td>TED 440 Techniques of Middle/Secondary Education: Agriculture 3 cr.</td>
<td>TED 440 Techniques of Middle/Secondary Education: Agriculture 3 cr.</td>
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<tr>
<td>TED 475 Student Teaching K-12 12 cr.</td>
<td><strong>TED 472 Student Teaching - Initial 12 cr.</strong></td>
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<td><strong>or</strong></td>
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<td>TED 479 K-12 Internship Teaching 12 cr.</td>
<td><strong>TED 474 Student Teaching - COST 12 cr.</strong></td>
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<tr>
<th>Agricultural Education Major (52 – 56 cr.)</th>
<th>Agricultural Education Major (52 – 55 cr.)</th>
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<tbody>
<tr>
<td><strong>Foundation Requirements-Select five: 14 - 16 cr.</strong></td>
<td><strong>Foundation Requirements: 12 cr.</strong></td>
</tr>
<tr>
<td>AGEC 230 Agricultural Economics 3 cr.</td>
<td>AGEC 101 Economics and Management in Agriculture 3 cr.</td>
</tr>
<tr>
<td>AET 150 Introduction to Agricultural Engineering 3 cr.</td>
<td>ANSC 111 Introduction to Animal Science 3 cr.</td>
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<tr>
<td>ANSC 111 Introduction to Animal Science 3 cr.</td>
<td>FDSC 110 The Science of Food 3 cr.</td>
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<tr>
<td>PLSC 161 Introduction to Plant Science 3 cr.</td>
<td>PLSC 161 Introduction to Plant Science 3 cr.</td>
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<tr>
<td>ESM 109 Introduction to Forestry 2 cr.</td>
<td><strong>or</strong></td>
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<tr>
<td>FDSC 110 The Science of Food 3 cr. And FDSC 113 Introduction to Food Science Lab 1 cr.</td>
<td><strong>or</strong></td>
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<tr>
<td>SOIL 120 Introduction to Soil Science 3 cr.</td>
<td><strong>or</strong></td>
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**TED 472 Student Teaching - Initial 12 cr.**                            | **TED 474 Student Teaching - COST 12 cr.**
### Existing

**Major Requirements: 38-40 cr. hrs.**  

**Required Courses (25 cr.):**  
AGED 202 Leadership and Group Dynamics 3 cr.  
AGED 275 Early Field Experience 1 cr.  
AGED 369 Foundations of Career and Technical Education 3 cr.  
AGED 403 Supervision of Work Experience and Youth Organizations 3 cr.  
AGED 462 Curriculum Design in Vocational Education 3 cr.  
**ANSC 231 Principles of Nutrition 3 cr.**  
**CROP 257 Genetics or ANSC 257 Genetics 3 cr.**  
ESM 300 Environmental Education 3 cr.  
HORT 169 Introduction to Horticulture 3 cr.

Choose one of the following (2-3 cr.):  
AGEC 240 Cooperatives 2 cr.  
**AGEC 355 Agricultural Markets and Prices 3 cr.**

Choose one of the following (3 cr.):  
AGEC 360 Farm Management 3 cr.  
AGEC 361 Horticultural Business Management 3 cr.  
AGEC 460 Agribusiness Firm Management 3 cr.

Choose one of the following (3-4 cr.):  
AGEN 240 Structures 3 cr.  
AET 255 Welding and Metal Manufacturing 3 cr.  
AET 320 Internal Combustion Engines 3 cr.  
AET 333 Site Engineering 3 cr.  
AET 350 Applied Electricity 3 cr.  
AET 440 Soil and Water Conservation 4 cr.

**Directed CAFES Electives: 5-7 cr. hrs.**

### Proposed

**Major Requirements: 40-43 cr. hrs.**

**Required Ag Education Courses (16 cr.):**  
AGED 202 Leadership and Group Dynamics 3 cr.  
AGED 275 Early Field Experience 1 cr.  
AGED 369 Foundations of Career and Technical Education 3 cr.  
AGED 403 Supervision of Work Experience and Youth Organizations 3 cr.  
**AGED 430 Methods of Teaching Ag Mechanics 3 cr.**  
AGED 462 Curriculum Design in Vocational Education 3 cr.

**Required AFNR Content Courses (18 cr.):**  
AET 112 Wood Technology 2 cr.  
AET 255 Welding and Metal Manufacturing 3 cr.  
**AFES 223 Agricultural Biotechnology Lab Techniques 1 cr.**  
**AGEC 205 Agricultural Business Accounting 3 cr.**  
AGEC 240 Cooperatives 2 cr.  
ESM 300 Environmental Education 3 cr.  
FDSC 113 Introduction to Food Science Laboratory 1 cr.  
HORT 169 Introduction to Horticulture 3 cr.

Choose one of the following (2-3 cr.):  
ESM 109 Introduction to Forestry 2 cr.  
SOIL 120 Introduction to Soil Science 3 cr.  

**Choose one of the following (2-4 cr.):**  
**AFES 222 Introduction to Biotechnology 2 cr.**  
ANSC 257 Genetics 4 cr.  
**Biol 350 Genetics & Evolution 3 cr.**  
CROP 257 Genetics 3 cr.

**Animal Science Elective (2+ cr.):**  
Select any ANSC or DASC course of at least 2 credits.

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Minutes from the department meeting where the requested changes were approved:
To: Tim Buttiles  
From: Brenda Boetel, Chair, Agricultural Economics  
Date: May 3, 2017  
Re: Support for changes to Ag Ed major requirements

The Agricultural Economics department supports the proposed changes to the Agricultural Education major. Requiring Agec 205 and 240 will best serve the Agricultural Education students. Agec 205 is a prerequisite course for the other courses that would meet the state education requirements, and Agec 240 is the only course that will discuss cooperatives in detail.
Tim Butteres

From: Joseph Shakal
Sent: Wednesday, April 19, 2017 11:21 AM
To: Tim Butteres
Subject: RE: Proposed changes to the ag education major

Tim,
Thanks for the message.
AET is Agricultural Engineering Technology (there is no “environmental”)
AET333 is now Site Engineering
AET440 is co-listed as SOIL440

The 300 level AET classes and AGEN 240 would be challenging to most students who’ve not had AET150, PHYS 121/131, and math.
We have seen AGED majors in AET350 and AET320 in the past.

AET150 provides a broad range of topics from surveying to stream measurements to beam design, at the introductory level,
but AET255 is a very hands on “skills” type class.

We trust that you and Jim know how to best prepare students for the licensing exams and expectations of school districts.
If the proposed changes works to accomplish that, we support these proposed changes.
Thanks
Joe

Joseph Shakal, Ph.D.
Associate Professor and Department Chair
Agricultural Engineering
Agricultural Engineering Technology
University of Wisconsin-River Falls
410 S. 3rd St. River Falls, WI 54022

From: Tim Butteres
Sent: Monday, April 17, 2017 5:32 PM
To: Joseph Shakal <joseph.shakal@uwrf.edu>
Subject: Proposed changes to the ag education major

Joe,

The attached document outlines a set of proposed changes to the ag education major. The following changes include AET & AGEN courses:

- Dropping AET 150 in the foundations section. If a student changed majors after taking 150, we would substitute it into the degree program
- Replacing the option to take one class from the list of AGEN 120, AET 225, AET 320, AET 333, AET 350, or AET 440 and require that students take AET 112 and 255. This is what most students have been doing for the past several years and changing the major will reduce the number of program exceptions needed.
If these changes sound OK, then I will send you the transmittal form to sign. We are trying to get these changes approved yet this academic year and will need an answer as quickly as possible.

Thanks,

Tim

-------------------------------------
Tim Buttiles, Ph.D.
Professor & Graduate Program Coordinator
Department of Agricultural Education

Learning Effectiveness Coordinator

University of Wisconsin - River Falls
410 S. Third St.
River Falls, WI 54022
Phone: 715-425-4085 - FAX: 715-425-3785
timothy.j.buttiles@uwrf.edu - www.uwrf.edu/AGED
Tim Buttles

From: Gary Onan
Sent: Friday, April 21, 2017 2:23 PM
To: Tim Buttles
Subject: RE: Proposed changes to ag education major

Tim,

The Department of Animal and Food Science supports the proposed changes to the Agricultural Education program.

Gary Onan

Gary Onan, PhD, PAS
Professor & Chair
Animal and Food Science
University of Wisconsin-River Falls
715-425-3704
715-307-0927

From: Tim Buttles
Sent: Wednesday, April 19, 2017 5:11 PM
To: Gary Onan <gary.onan@uwrf.edu>
Subject: Proposed changes to ag education major

Gary,

The attached version incorporates the changes you and other chairs provided.

Tim

-------------------------------
Tim Buttles, Ph.D.
Professor & Graduate Program Coordinator
Department of Agricultural Education
Learning Effectiveness Coordinator

University of Wisconsin - River Falls
410 S. Third St.
River Falls, WI 54022
Phone: 715-425-4085 - FAX: 715-425-3785
timothy.i.buttles@uwrf.edu - www.uwrf.edu/AGED
Tim Buttres

From: Jorge Bonilla  
Sent: Monday, April 17, 2017 5:47 PM  
To: Tim Buttres  
Subject: Re: Proposed changes to the ag education major

Tim,

If I'm reading this correctly, the BIOL 350 option for your majors is acceptable to me, as it would be an option for the students with Biology education minors, and thus would have taken the BIOL 240 prerequisite prior to BIOL 350.

Thank you for the opportunity to comment,
Fred

------------------------------------
J. Alfred Bonilla, M.Sc., Ph.D.  
Chair, Associate Professor  
Department of Biology  
University of Wisconsin-River Falls  
410 S. Third St.  
River Falls, WI 54022  
(715) 425-4062  
jalfred.bonilla@uwrf.edu

From: Tim Buttres <timothy.j.buttes@uwrf.edu>  
Date: Monday, April 17, 2017 at 5:35 PM  
To: Jorge Bonilla <jalfred.bonilla@uwrf.edu>  
Subject: Proposed changes to the ag education major

Fred,

The attached document outlines a set of proposed changes to the ag education major. The one change that will impact your department is adding BIOL 350 as an option. This would only be for students who are adding the biology - education minor to our major. It matches what we have been doing for several years and will save having to complete a few program exception forms.

If adding BIOL 350 to the major is acceptable, then I will send you the transmittal form to sign. We are trying to get these changes approved yet this academic year and will need an answer as quickly as possible.

We will have to wait until the first week of May for an announcement on any changes to the rules for adding second licenses or the move to a single science license. I will let you know when an announcement is made.

Thanks,
Tim

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Tim Buttles, Ph.D.
Professor & Graduate Program Coordinator
Department of Agricultural Education

Learning Effectiveness Coordinator

University of Wisconsin – River Falls
410 S. Third St.
River Falls, WI 54022
Phone: 715-425-4085 - FAX: 715-425-3785
timothy.i.buttles@uwrf.edu - www.uwrf.edu/AGED
Thanks, Tim.
I am fine with signing the transmittal form. Going forward, ANSC 222 will be AFES 222. We changed it in the expedited process this semester so you may want to make that change.

Thanks,
Don

From: Tim Buttles
Sent: Monday, April 17, 2017 5:28 PM
To: Donavon Taylor <donavon.h.taylor@uwrf.edu>
Subject: Proposed changes to the ag education major

Don,

The attached document outlines a set of proposed changes to the ag education major. The proposed changes should have a small impact on your department.

The proposal does move ESM 109 and SOIL 120 out of the foundations section and creating a new section where students will pick one of the two classes. This may result in a few more students taking these two classes, but most students are already taking at least one as their choices in the foundations section.

The proposal makes PLSC 161 required for all ag education majors, but this was how things had been operating in practice.

Adding ANSC 222 as an option in place of a genetics class will lead to increased enrollment, but it looks like there is capacity in the class.

If these changes sound OK, then I will send you the transmittal form to sign. We are trying to get these changes approved yet this academic year and will need an answer as quickly as possible.

Thanks,

Tim

Tim Buttles, Ph.D.
Professor & Graduate Program Coordinator
Department of Agricultural Education

Learning Effectiveness Coordinator

University of Wisconsin - River Falls
410 S. Third St.
Agricultural Education Department Minutes

April 11, 2017

Members Present: James Graham & Tim Buttles

Meeting called to order at 10:35 p.m.

Motion to approve the wording for the departmental advising survey (Graham/Buttles). Approved unanimously.

Motion to approve the undergraduate faculty qualifications (Buttles/Graham). Approved unanimously.

Motion to approve the proposal to make changes in the agricultural education major (Graham/Buttles). Approved unanimously.

Meeting adjourned at 11:47 p.m.

Respectfully submitted by Tim Buttles
CAFES Curriculum Committee
April 19, 2017

Members Present: D. Taylor, S. Kelm, D. Olson, T. Buttles, D. Trechter

Absent: S. DeBroux, K. Vogel

(M/S – Olson/Taylor) to approve the minutes from March 29, 2017. Passed. (4 yea, 0 nay, 1 abstained)

(M/S – Buttles/Olson) to approve ending Ag Studies Minor. Because a minor is supposed to provide a level of expertise in some subject area, a minor in ag studies, which would entail taking courses across a variety of disciplines, makes little sense. Further, the existing minor does not align with the nature of the major as it is currently structured. The minor requires no 300- or 400-level courses and is, therefore, not consistent with other CAFES minors. Passed (5 yea, 0 nay, 0 abstained)

(M/S – Taylor/Buttles) to approve ending Ag Economic Minor. This minor is an artifact from prior to the creation of the Agricultural Business minor and has minimal differences from the new minor. One of the courses required for the Agricultural Economics minor is no longer offered. The department feels that its Agricultural Business and Farm Management minors provide sufficient options for students. Passed (5 yea, 0 nay, 0 abstained)

(M/S – Kelm/Taylor) to approve changes to Ag Education major. T. Buttles noted that a revised version of the proposal was recently created. Changes from that version included:
- Changed courses required from ag economics to AGEC 101 (Intro), AGEC 240 (Co-ops) and AGEC 205 (Ag Accounting)
- Changed required courses in animal science to any ANSC or DASC of at least 2 credits
- Changed the ag engineering requirement from AET 150 (Intro) to AET 112 (Wood Tech)

The committee voiced concern that, other than in the major, there is nothing required above the 200-level in this proposal unless a student completes a minor. T. Buttles was not sure how many ag education majors complete the minor. Passed (5 yea, 0 nay, 0 abstained)

(M/S – Kelm/Taylor) to adjourn. Passed (5 yea, 0 nay, 0 abstained)

Respectfully submitted
David Trechter, Chair